PHASE I ENVIRONMENTAL SITE ASSESSMENT

Block 24 – Former Hoyt Street Railyard
NW 12th Avenue and NW Quimby Street
Portland, Oregon

For
Greystar
May 3, 2022

Project: Greystar-9-02

Report Viability Date: October 12, 2022

NV5

May 3, 2022

Greystar
1125 NW Couch Street, Suite 450
Portland, OR 97209

Attention: Doug Burges

Phase I Environmental Site Assessment
Block 24 – Former Hoyt Street Railyard
NW 12th Avenue and NW Quimby Street
Portland, Oregon
Project: Greystar-9-02

NV5 is pleased to submit this Phase I ESA of the Block 24 – Former Hoyt Street Railyard site located northeast of NW 12th Avenue and NW Quimby Street in Portland, Oregon. Our services were performed in conformance with the standards and practices for all appropriate inquiries specified in Title 40, Chapter I of CFR Part 312 and ASTM E1527-13, and the considerations of ASTM E1527-21. Contractual terms for our services are contained in our proposal dated April 12, 2022.

We appreciate the opportunity to be of service to Greystar. Please contact us if you have questions regarding this report.

Sincerely,

NV5

Colby R. Hunt, C.H.M.M.
Principal

cc: Michael Burkin, Greystar (via email only)

CJE:CRH:kt
Attachments
One copy submitted (via email only)
Document ID: Greystar-9-02-050322-envr-Ph I ESA.docx
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EXECUTIVE SUMMARY

NV5 performed a Phase I ESA of the Block 24 – Former Hoyt Street Railyard site located northeast of NW 12th Avenue and NW Quimby Street in Portland, Oregon (subject property). The Phase I ESA was conducted in conformance with the standards and practices for all appropriate inquiries specified in Title 40, Chapter I of CFR Part 312, ASTM E1527-13, and the considerations of ASTM E1527-21. Contractual terms for our services are contained in our proposal to Greystar dated April 12, 2022. Any exceptions to or deletions from this practice are described in Sections 3.0 and 13.0. Please note that this section provides a summary of the findings of the Phase I ESA and some details were not included or fully developed. Therefore, this report must be read in its entirety for a more complete understanding of the findings, conclusions, and recommendations contained herein.

Acronyms and abbreviations used herein are defined immediately following the Table of Contents.

SUBJECT PROPERTY AND VICINITY DESCRIPTION

Size	1.61 acres
Tax Lot	709
Tax Map	Multnomah County – 1N1E28DD
Current Use	Construction staging
Significant Features	Multiple job trailers, material storage areas, and parking areas
Vicinity Use	Commercial and residential

ENVIRONMENTAL RECORDS REVIEW

Federal, tribal, state, and local environmental records and databases were compiled for the subject property and facilities that currently or previously have occupied properties within the specified search distance from the subject property. Information contained in the records and databases was reviewed by NV5 to evaluate the potential for environmental impacts to the subject property.

Subject Property

The subject property is listed on the DEQ ECSI database (ECSI No. 1080) as part of the former Hoyt Street Railyard property. The Hoyt Street Railyard property formerly occupied a 26-acre tract of land that included the subject property and surrounding properties from approximately 1911 through 1998. Numerous environmental investigations have been conducted on the Hoyt Street Railyard site, which identified petroleum hydrocarbons and metals as the main COCs at the subject property and surrounding properties. DEQ issued an ROD for the Hoyt Street Railyard property in 2000, which selected the following remedial options for soil:

- Excavation and treatment and/or landfill disposal of hot spot soil.
- Excavation, stabilization (as needed), and landfill disposal of lead-impacted soil.
- Excavation of soil in utility corridors where concentrations exceed the DEQ construction worker RBCs in the upper 5 feet of soil.

- Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements.
- Engineering and institutional controls.

DEQ's selected remedial options for groundwater beneath the Hoyt Street Railyard property included groundwater monitoring and institutional controls. In addition, a Soil Remedial Design and Remedial Action Workplan (RD/RA Workplan) was prepared by Anchor Environmental, L.L.C. for the Hoyt Street Railyard property. The RD/RA Workplan is consistent with the requirements outlined in the 2000 ROD.

Hoyt Street Railyard Property began redevelopment of the railyard in 1998. A Declaration of Covenants and Restrictions and a Stipulation and Consent Decree between DEQ, Hoyt Street Railyard Property, and BNSF Railway to implement the December 2000 ROD was negotiated in 2001 and recorded in February 2002. Hoyt Street Railyard Property agreed to remediate the soil at the site. The remedial action consisted of the excavation and off-site disposal of contaminated soil; capping of residual soil contamination with clean soil, buildings, or pavement; and filing of Licenses and Declarations of Restrictions to protect and maintain the caps. An identification layer (e.g., demarcation fabric) is required at the contact of the base of all cap materials and the underlying impacted soil . BNSF assumed responsibility for the groundwater contamination.

In 2010, GeoDesign, Inc. (now NV5) conducted a limited subsurface investigation that consisted of advancing nine direct-push borings on the subject property (DP-1 through DP-6 and DP-14 through DP-16) and seven direct-push borings on the adjoining property to the west for the collection of soil and/or groundwater samples. In addition, methane measurements were collected from open boreholes. The limited subsurface investigation indicated the following with regard to the subject property:

- Fill is present beneath the subject property at thicknesses ranging from 13 to 24 feet. The fill generally consists of sand, silty gravel, and woody debris with occasional man-made debris.
- Fill beneath the subject property is impacted with petroleum hydrocarbons, lead, and PAHs at concentrations greater than applicable DEQ RBCs and/or DEQ CFSLs.
- Methane gas was measured at a maximum concentration of 40.4 percent in an open borehole (DP-5) located on the subject property.
- Groundwater was encountered at depths between approximately 4 and 17 feet BGS. VOCs were not detected above the laboratory method detection limits in the groundwater samples collected for laboratory analysis.

DEQ issued an explanation of significant difference to the ROD in 2015, which extended the deadline for development of the Hoyt Street Railyard properties until 2025. ECSI No. 1080 remains an active ECSI file.

Surrounding Sites

The EDR Radius Map Report identified 160 surrounding sites listed on one or more regulatory databases within the ASTM search distances. Based on local topography, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and the information contained in the regulatory databases, it is our professional opinion that the 160 surrounding sites do not pose a risk of a REC at the subject property.

HISTORICAL USES

Subject Property

Our review of historical sources from 1889 through the present indicates that the subject property was developed for lumber storage and horse stalls sometime prior to 1889. The subject property consisted of a railyard from at least 1905 through 1904, with multiple railroad tracks present. The railroad tracks were removed by the mid-1990s and the subject property was left vacant. Since at least 2016, the subject property has been used as a storage yard. Presently, the subject property has been used as a construction staging area for a construction project on the west adjoining property to the subject property.

Adjoining Properties

Our review of historical sources from 1889 through the present indicates the adjoining properties were used as lumber storage areas in the late 1800s. From 1905 through the mid-1990s, the adjoining properties were largely used as railyards with multiple railroad tracks and various storage areas. From 2000 to the present, the adjoining properties south and west of the subject property have been redeveloped for multiple uses, including a park to the southeast, mixed-use buildings to the south and northwest, and a senior living facility that is currently under construction to the west. Railroad tracks remain along the northeastern subject property boundary.

SITE RECONNAISSANCE

During the site reconnaissance, NV5 observed various small-quantity containers of oils and construction adhesives, a pad-mounted transformer, groundwater monitoring wells, two solid waste dumpsters, and multiple job trailers and modular storage containers. Evidence of a release was not observed during the site reconnaissance. Based on the site reconnaissance, RECs were not identified in conjunction with the current use of the subject property.

FINDINGS AND OPINIONS

- The subject property is located on a portion of the former Hoyt Street Railyard site (ECSI No. 1080). Based on the results of previous investigations, fill beneath the subject property contains petroleum hydrocarbons, PAHs, and lead at concentrations greater than DEQ RBCs and/or DEQ CFSLs. DEQ issued an ROD in 2000 that included selected remedial options for properties located within the former Hoyt Street Railyard. Based on the presence of an engineering control on the subject property and the requirement to perform remedial action during redevelopment in accordance with the December 2000 ROD, the inclusion of the subject property on the ECSI database represents a CREC at the subject property.

- GeoDesign's 2010 limited subsurface investigation also indicated that methane is present beneath the subject property at a maximum concentration of 40.4 percent. The presence of elevated methane concentrations beneath the subject property represents a BER at the subject property.
- Multiple adjoining properties are listed on the DEQ ECSI database for their historical inclusion in the former Hoyt Street Railyard site. However, based on the results of previous investigations and the redevelopment of these surrounding sites, the surrounding sites do not represent a REC at the subject property.
- The 5-gallon buckets and small-quantity containers of various chemicals at the subject property appeared to be either properly stored or empty at the time of the site reconnaissance, and evidence of leaks or spillage was not observed in the vicinity of these containers. Therefore, it is our opinion that the presence of these containers does not represent a REC at the subject property.
- Stockpiled soil was observed along the northeastern boundary the subject property. According to the current site occupant, the stockpiled soil was graded from other areas of the subject property to produce an erosion control berm. Evidence of deleterious material was not observed within the soil berm at the time of the site reconnaissance, and it is our professional opinion that the stockpiled soil does not represent a REC at the subject property.

CONCLUSIONS AND RECOMMENDATIONS

NV5 performed a Phase I ESA in conformance with the scope and limitations of ASTM E1527-13, and the considerations of ASTM E1527-21; all appropriate inquiries specified in 40 CFR Part 312; and the proposal to Greystar dated April 12, 2022, for the subject property located northeast of NW 12th Avenue and NW Quimby Street in Portland, Oregon. Any exceptions to or deletions from this practice are described in Sections 3.0 and 13.0. In our opinion, this assessment has revealed the following CREC in connection with the subject property, which constitutes a REC:

- The subject property is located on Block 24 of the former Hoyt Street Railyard site (ECSI No. 1080). Petroleum hydrocarbons, PAHs, and lead are present in soil beneath the subject property at concentrations greater than DEQ RBCs and/or DEQ CFSLs.

NV5 recommends the following:

- Based on our experience with similar properties in the Hoyt Street Railyard area, prior to redevelopment, the subject property should be enrolled in the DEQ VCP to receive DEQ oversight during redevelopment. NV5 is currently conducting a limited subsurface investigation of the subject property to obtain sufficient soil analytical data for waste characterization purposes, sufficiently characterize groundwater to obtain a dewatering permit in the event dewatering is required during construction, and collect methane gas measurements from dedicated methane probes to evaluate if a methane mitigation system will be required for the future subject property structure.
- Future redevelopment of the subject property must to adhere to the ROD and RD/RA Workplan requirements set by DEQ, including the following: (1) it is highly unlikely that soil at the subject property excavated during future redevelopment will meet DEQ CFSLs and that

excavated soil will require disposal at a RCRA Subtitle D landfill or other DEQ-approved disposal facility; (2) because of the levels of soil contamination on the subject property, a CMMP will be required to assist the earthwork contractor with the proper handling, characterization, and disposal of contaminated media that will be encountered during subject property redevelopment; (3) if dewatering is required, water should be properly contained and characterized prior to disposal or permitted discharge; (4) methane in soil gas will likely require mitigation by applying engineering and institutional controls; (5) subject property workers must be notified of subject property environmental conditions and, when appropriate, comply with applicable Oregon OSHA requirements when involved with the handling of potentially contaminated media; and (6) annual inspections of the subject property cap after construction is completed.

- Based on information obtained from the City of Portland, the western portion of the subject property includes a portion of the NW 12th Avenue ROW. If the portion of the NW 12th Avenue ROW included in the subject property is conveyed to the City of Portland as part of subject property redevelopment, the City of Portland Hazardous Substance Code (PCC 17.24.067) must be followed. Currently, the City of Portland Hazardous Substance Code requires that the upper 5 feet of material beneath the ROW consist of clean fill as well as utility clearance requirements. Utility clearance requirements may apply even if the ROWs are not conveyed to the City of Portland.
- After remedial actions are performed during redevelopment in accordance with the ROD and a DEQ-approved CMMP, the DEQ VCP can then issue a Certificate of Completion with a determination that no further action is required at the subject property, other than annual cap inspections.
- BNSF Railroad is responsible for groundwater remedial activities and ongoing monitoring under the 2002 Stipulation and Consent Decree. If future use is not required, the three on-site groundwater monitoring wells should be decommissioned in accordance with state and local regulations.
- The 5-gallon buckets and small-quantity containers of chemicals and hazardous substances should be removed from the subject property and properly disposed of prior to redevelopment of the subject property.

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ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
AUL	Activity and Use Limitation
BER	Business Environmental Risk
BGS	below ground surface
BNSF	Burlington Northern Santa Fe
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CFSL	clean fill screening level
CMMP	Contaminated Media Management Plan
COC	chemical of concern or contaminant of concern
CREC	controlled recognized environmental condition
CRL	Confirmed Release List
DEQ	Oregon Department of Environmental Quality
ECSI	Environmental Cleanup Site Information
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
HREC	historical recognized environmental condition
LNAPL	light non-aqueous phase liquid
mg/kg	milligrams per kilogram
MSL	mean sea level
NA	not applicable
NFA	No Further Action
OSHA	Occupational Safety and Health Administration
OWRD	Oregon Water Resources Department
PAH	polycyclic aromatic hydrocarbon
PBOT	Portland Bureau of Transportation
PCB	polychlorinated biphenyl
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
ROD	Record of Decision
ROW	right-of-way
USGS	U.S. Geological Survey
UST	underground storage tank
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the results of a Phase I ESA of the Block 24 – Former Hoyt Street Railyard site located northeast of NW 12th Avenue and NW Quimby Street in Portland, Oregon (subject property). The subject property includes Tax Lot 709 of Multnomah County Tax Map 1N1E28DD and consists of 1.61 acres currently consisting of a gravel-covered construction staging area, including job trailers, material storage, and parking areas. The subject property is shown relative to surrounding physical features on Figure 1. The subject property layout and surrounding properties are shown on Figure 2. NV5's firm profile and resumes of project personnel are presented in Appendix A. Acronyms and abbreviations used herein are defined above, immediately following the Table of Contents.

Phase I ESAs have a limited viability as specified in Section 4.6 "Continued Viability of the Site Assessment" of ASTM E1527-13 and ASTM E1527-21. According to ASTM E1527-13, a Phase I ESA is valid for a period of 180 days from the date of the first data collected for the assessment. The Phase I ESA viability can be extended by 180 days by updating the assessment within one year of the initial assessment. If more than one year passes, a new Phase I ESA will need to be completed in order to qualify for Landowner Liability Protections under CERCLA. **On the basis of the first data collected (April 15, 2022), this Phase I ESA report is considered valid through October 12, 2022.**

2.0 PURPOSE

2.1 PROTECTION FROM CERCLA LIABILITY

One purpose for conducting a Phase I ESA is to undertake all appropriate inquiries into prior ownership and uses of a property so that a prospective purchaser may potentially claim protection from CERCLA and/or state liability as an innocent landowner, a bona fide prospective purchaser, or a contiguous property owner. The standards and practices for all appropriate inquiries are specified in Title 40, Chapter I of CFR Part 312. The inquiry must be conducted by an environmental professional to identify conditions indicative of releases and threatened releases of hazardous substances as defined in CERCLA Section 101(22). If the prospective purchaser is the recipient of an EPA Brownfields grant, the inquiry must also identify conditions indicative of releases and threatened releases of petroleum and petroleum products and controlled substances as defined in 21 U.S. Code 802. These standards and practices do not require the identification of quantities of hazardous substances, petroleum and petroleum products, and controlled substances that, because of said quantity, generally would not pose a threat to human health or the environment.

2.2 IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS

Another purpose for conducting a Phase I ESA is to identify RECs in connection with a property as they pertain to ASTM E1527-13 and the considerations of ASTM E1527-21. This practice is intended for use by parties who wish to assess the environmental condition of a property by taking into account commonly known and reasonably ascertainable information. Although conformance with ASTM E1527-13 constitutes all appropriate inquiry as described in Section 2.1, the standard is intended primarily as an approach to identify RECs in connection with a property.

A REC is defined in ASTM E1527-21 by (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. RECs do not include de minimis conditions that do not generally present a risk to public health or the environment and would not be the subject of legal enforcement if brought to the attention of appropriate governmental agencies.

A CREC is defined by ASTM E1527-21 as a REC affecting the subject property that has been addressed to the satisfaction of the regulatory authority or authorities, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. Examples of required controls include property use restrictions, AULs, institutional controls, and engineering controls. A condition considered by the environmental professional to be a CREC is considered a REC.

An HREC is defined by ASTM E1527-21 as a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authorities without subjecting the property to any required controls such as property use restrictions, AULs, institutional controls, and engineering controls. An HREC is not considered a REC. Before calling the past release an HREC, the environmental professional must determine whether the past release is a REC at the time the Phase I ESA is conducted (for example, if there has been a change in regulatory criteria). If the environmental professional considers the past release to be a REC, such as not meeting regulatory standards for unrestricted use in place at the time the Phase I ESA is conducted, the condition shall be considered a REC.

A BER is defined as a risk that can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, but not necessarily limited to those environmental issues required to be investigated in this practice.

3.0 SCOPE OF SERVICES

The scope of services for this project was performed in conformance with the standards and practices for all appropriate inquiries specified in 40 CFR Part 312 and the scope and limitations of ASTM E1527-13 and the considerations of ASTM E1527-21. The specific scope of services performed included the following:

- Reviewed a current USGS topographic map to identify the physical setting of the subject property.
- Reviewed federal, tribal, state, and local environmental records for listings of known or suspected environmental conditions at the subject property or nearby properties as specified in 40 CFR Part 312 and ASTM E1527-13.

- Reviewed reasonably ascertainable standard historical sources, including aerial photographs, USGS topographic maps, reverse city directories, fire insurance maps, online property information (including available building department records, property tax information, and zoning/land use records), and other historical sources, as appropriate, to identify development history on and adjoining the subject property relative to the possible use, generation, storage, release, or disposal of hazardous substances.
- Interviewed the owner, an occupant of the subject property, and a local government official regarding their knowledge of the subject property.
- Conducted a visual reconnaissance of the subject property and adjoining properties to obtain information indicating the likelihood of identifying RECs concerning the subject property.
- Prepared this report that presents our findings and provides conclusions and recommendations.

The scope of services was limited to only the items listed above. This project did not include completion of an environmental compliance audit; an evaluation for the presence of PCBs in light ballasts; a survey for asbestos, lead-based paint, radon gas, toxic mold, biological pollutants, or urea-formaldehyde insulation; or a wetlands determination or delineation.

4.0 SUBJECT PROPERTY AND VICINITY DESCRIPTION

Information concerning the physical setting of the subject property and vicinity is based on a review of the USGS 7.5-minute Portland, Oregon, topographic quadrangle map; information provided by EDR of Shelton, Connecticut; and observations made during a site reconnaissance conducted on April 21, 2022.

The subject property encompasses 1.61 acres located northeast of NW 12th Avenue and NW Quimby Street in Portland, Oregon. The subject property is currently owned by Hoyt Street Properties LLC and consists of a gravel construction staging area with multiple job trailers, material storage, and parking areas. The subject property includes Tax Lot 709 in the southeast quarter of the southeast quarter of Section 28, Township 1 North, Range 1 East of the Willamette Meridian.

The subject property is situated at an elevation of approximately 35 feet above MSL. The topography of the subject property is generally level. Regional topography slopes slightly downward to the northeast. Based on a review of OWRD well logs and topographic maps for the area, shallow groundwater beneath the subject property is expected to be present at depths between approximately 10 and 20 feet BGS and is anticipated to flow northeast toward the Willamette River.

Land use in the vicinity of the subject property is primarily commercial. According to the City of Portland, the subject property is zoned Central Employment with a design overlay (EXd). Properties surrounding the subject property are zoned Central Employment with a design overlay (EXd) and Open Space with a design overlay (OSd).

5.0 USER-PROVIDED INFORMATION

The purpose of this section is to describe information provided by the user of this report (Greystar) that was considered in the evaluation of potential RECs in connection with the subject property.

The user was provided with a Phase I ESA User Questionnaire and was asked to provide the following information as described in Section 6 of ASTM E1527-13 and ASTM E1527-21. The user questionnaire information was provided by Michael Burkin of Greystar. The completed Phase I ESA User Questionnaire is presented in Appendix B.

5.1 USER QUESTIONNAIRE RESPONSES

Has the user conducted a search of recorded land title records or judicial records to identify environmental liens or AULs, such as engineering controls, land use restrictions, or institutional controls, that are filed under federal, tribal, state, or local law?	See Section 5.1.1
If a search of recorded land title records or judicial records was conducted, were any environmental liens or AULs identified?	See Section 5.1.1
Does the user have any specialized knowledge or experience related to the subject property or nearby properties?	No
Does the user believe the purchase price being paid for the subject property reasonably reflects the fair market value?	Yes
If the purchase price does not reasonably reflect the fair market value, is the lower purchase price because contamination is known or believed to be present at the subject property?	NA
Is the user aware of commonly known or reasonably ascertainable information about the subject property that may help the environmental professional identify conditions indicative of releases or threatened releases?	See Section 5.1.1
Does the user know the past uses of the subject property?	See Section 5.1.1
Does the user know of specific chemicals that are present or once were present at the subject property?	See Section 5.1.1
Does the user know of spills or other chemical releases that have taken place at the subject property?	See Section 5.1.1
Does the user know of any environmental cleanups that have taken place at the subject property?	No
Is the user aware of any obvious indicators that point to the presence or likely presence of contamination at the subject property?	No

5.1.1 User Knowledge

Mr. Burkin stated that he is aware of the AULs presented in the DEQ ROD for the Hoyt Street Railyards dated December 15, 2020, discussed further in Section 6.0. Mr. Burkin also indicated that he is aware of environmental conditions associated with the historical uses of the subject property and surrounding properties, which are discussed in Section 6.0.

6.0 PREVIOUS REPORTS

NV5 reviewed previous environmental documents regarding the subject property or adjoining properties. The findings and conclusions of the following documents are summarized below:

- *Record of Decision; Selected Remedial Action for Hoyt Street Railyard; Portland, Oregon,* prepared by DEQ, Environmental Cleanup, Northwest Region, Site Response Program, dated December 15, 2000
- *Declaration of Covenants and Restrictions* between Hoyt Street Properties, L.L.C. and The Burlington Northern and Santa Fe Railway Company, recorded February 2, 2002
- *Stipulation and Consent Decree* between DEQ and Hoyt Street Properties, LLC and The Burlington Northern and Santa Fe Railway Company, recorded February 2, 2002
- *Soil Remedial Design and Remedial Action Workplan; Hoyt Street Yards; Portland, Oregon,* (RD/RA Workplan) prepared by Anchor Environmental, L.L.C., dated June 2002
- *Post Construction Cap Inspection and Maintenance Plan for Resident Building Blocks; Hoyt Street Yards; Portland, Oregon,* prepared by Anchor Environmental, L.L.C., dated December 2004
- *2008-2009 Groundwater Monitoring Report – Former Hoyt Street Railyard,* prepared by AECOM Environment (AECOM), dated February 2010
- *Due Diligence Environmental Services; Confidential Pearl District Development; Blocks 23/24, NW Quimby Street and NW 13th Avenue; Portland, Oregon*, prepared by GeoDesign, Inc., dated December 21, 2010
- *Explanation of Significant Difference to the Record of Decision for Hoyt Street Railyard; Multnomah County, Oregon (ECSI No. 1080),* prepared by DEQ, dated November 9, 2015

6.1 DEQ (2000)

DEQ issued an ROD for the former Hoyt Street Railyard property in 2000. The ROD indicates that before the late 1800s the Hoyt Street Railyard property was covered with fill material and used for a variety of industrial purposes. In the late 1800s, a pile-supported woolen mill reportedly existed in an area of a fueling facility, but the exact location of the pile-supported woolen mill and fueling facility is not known. A sawmill was located near the north boundary of the Hoyt Street Railyard property. In addition, General Petroleum operated a fueling facility on leased property in the north part of the Hoyt Street Railyard property, approximately 200 feet southeast of the subject property. The Hoyt Street Railyard property was used for railyard activities by BNSF and its predecessors beginning in approximately 1911. Until the middle 1940s, fueling and maintenance activities were conducted in the northern portion of the Hoyt Street Railyard property located east of the subject property. Reportedly, fueling activities were relocated away from the northern portion of the Hoyt Street Railyard property in the mid-1940s. Railroad tracks were present on the subject property from the early 1900s through at least 1994. Fueling operations ceased in 1997 and BNSF vacated the Hoyt Street Railyard property in December 1998. Subsequently, the former railyard was abandoned and railroad tracks were removed from the Hoyt Street Railyard property, including the subject property, by 2000. BNSF no longer conducts railroad operations on the Hoyt Street Railyard property. BNSF monitors and maintains groundwater monitoring wells on the Hoyt Street Railyard property, including the three groundwater monitoring wells on the subject property.

The former Hoyt Street Railyard property has undergone multiple environmental investigations dating back to the late 1970s. The former Hoyt Street Railyard property was placed on the CRL in September 1991 and was accepted into the DEQ VCP in March 1994 (ECSI No. 1080); an Order of Consent that governed the remedial investigation and feasibility study and interim removal measures was signed in August 1995 by BNSF and DEQ.

The ROD indicates that environmental impacts vary across the former Hoyt Street Railyard property depending on past industrial activities and operational practices in specific areas. Petroleum hydrocarbons and metals are identified as the main COCs at the subject property and surrounding vicinity. The petroleum hydrocarbon compounds are found in the following forms: adsorbed to soil particles or as a residual film of hydrocarbons on soil grains, as a free layer of product or LNAPL floating on the water table, or as chemicals dissolved in the groundwater.

Reportedly, soil contamination is generally restricted to soil above the water table or in the zone of groundwater table fluctuations. Total petroleum hydrocarbon concentrations have been detected as high as 29,000 mg/kg and free LNAPL has been encountered during previous environmental investigations. The ROD indicates total dissolved PAH concentrations in the northern portion of the former Hoyt Street Railyard (subject property vicinity) range from below the detection limit up to 18.6 µg/L.

Based on site conditions, current and future planned use, and overall protectiveness, DEQ selected remedial options for soil on lots associated with the former Hoyt Street Railyard property. DEQ's selected remedial options for soil include the following components:

- Excavation and treatment and/or landfill disposal of hot spot soil.
- Excavation, stabilization (as needed), and landfill disposal of lead-impacted soil.
- Excavation of soil in utility corridors where concentrations exceed the DEQ construction worker RBCs in the upper 5 feet of soil.
- Capping the entire former Hoyt Street Railyard property with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements.
- Engineering and institutional controls.

DEQ's selected remedial options for impacted groundwater beneath the Hoyt Street Railyard property included groundwater monitoring and institutional controls. For more information regarding DEQ's selected remedial alternative and for reference purposes, the ROD is presented in Appendix B.

6.2 DECLARATION OF COVENANTS AND RESTRICTIONS/STIPULATION AND CONSENT DECREE (2002)

Hoyt Street Properties began redevelopment of the railyard in 1998. A Declaration of Covenants and Restrictions and a Stipulation and Consent Decree between DEQ, Hoyt Street Properties LLC, and BNSF Railway to implement the December 2000 ROD was negotiated in 2001 and recorded in February 2002. Hoyt Street Properties agreed to remediate soil at the Hoyt Street Railyard site. The remedial action consisted of the excavation and off-site disposal of contaminated soil; capping of residual soil contamination with clean soil, buildings, or pavement; and filing of Licenses and Declarations of Restrictions to protect and maintain the caps. BNSF assumed

responsibility for the groundwater contamination. The Declaration of Covenants and Restrictions and the Stipulation and Consent Decree are presented in Appendix B.

6.3 ANCHOR ENVIRONMENTAL, L.L.C. (2002)

The RD/RA Workplan provides a guideline for soil management required at a Hoyt Street Railyard property. The RD/RA Workplan is consistent with the soil management requirements outlined in the 2000 ROD and includes an outline of management procedures for soil stockpiles, dust, air quality, potential asbestos, construction equipment decontamination, and site security. The RD/RA Workplan also indicates that the following caps should be implemented during future development of the Hoyt Street Railyard property:

- City parks should be capped with at least 3 feet of clean fill and 5 feet of clean fill in child playground areas.
- Landscaped areas in private building blocks should be capped with at least 2 feet of clean fill.
- Street, sidewalks, and building footprints will cap the areas not covered by city parks or landscaped areas.
- An identification layer (e.g., demarcation fabric) is required at the contact of the base of all cap materials and the underlying impacted soil.

The RD/RA Workplan is presented in Appendix B.

6.4 ANCHOR ENVIRONMENTAL, L.L.C. (2004)

The cap maintenance plan provides the requirements and protocols for annual inspection and reporting of the ability of the cap to prevent exposure to the underlying soil. After redevelopment of the subject property, the building foundation, sidewalks, and landscaping function as the permanent cap. The plan covers the annual assessment requirements for an inspection report of the protective cap and requires that the annual report be submitted to DEQ by March 1 of each year.

6.5 AECOM (2010)

As a function of DEQ's ROD Selected Remedial Action, AECOM, on behalf of BNSF, conducts semi-annual monitoring of seven groundwater monitoring wells (LTM-101 through LTM-107) present on the northern portion of the former Hoyt Street Railyard property. Three of the seven groundwater monitoring wells (LTM-105 through LTM-107) are located on the subject property and are shown on Figure 2. The groundwater monitoring program is designed to evaluate contaminant concentrations and migration, source removal, effectiveness of remedial actions, and the protection of beneficial uses of groundwater and surface water. Since 2006, groundwater monitoring events have indicated local groundwater flow direction variability due to the nature of subsurface conditions (fill) and recently completed construction activities. Groundwater elevations have indicated flow directions both away from and toward the Willamette River. PAH concentrations detected in groundwater samples collected from the seven wells have been less than applicable risk screening values established in the ROD, with the exception of the detected concentration of PAHs in the groundwater sample collected from monitoring well LTM-107 on the northern portion of the subject property during the July 2009 monitoring event. More recent groundwater monitoring reports were not available for review.

However, VOCs were not detected above laboratory method detection limits in groundwater samples collected beneath the subject property in 2010 (see Section 6.6).

6.6 GEODESIGN (2010)

In 2010, GeoDesign conducted a Phase I ESA and a limited subsurface investigation at the subject property and the adjoining property to the west. The limited subsurface investigation consisted of advancing nine direct-push borings on the subject property (DP-1 through DP-6 and DP-14 through DP-16) and seven direct-push borings on the adjoining property to the west to depths of up to 30 feet BGS for the collection of soil and/or groundwater samples. The locations of the direct-push borings that were located on the subject property are shown on Figure 2. In addition, methane measurements were collected by monitoring methane concentrations in open boreholes. The results of the 2010 investigation indicated the following with regard to the subject property:

- Fill is present beneath the subject property at thicknesses ranging from 13 to 24 feet. The fill generally consists of sand, silty gravel, and woody debris with occasional man-made debris.
- Fill soil beneath the subject property is impacted with petroleum hydrocarbons, lead, and PAHs at concentrations greater than applicable DEQ RBCs and/or DEQ CFSLs.
- Methane gas was measured at a maximum concentration of 40.4 percent in an open borehole (DP-5) located on the subject property.
- Groundwater was encountered at depths between approximately 4 and 17 feet BGS. VOCs were not detected above the laboratory method detection limits in the groundwater samples collected for laboratory analysis.

6.7 DEQ (2015)

The 2000 ROD issued by DEQ set a 15-year deadline for remediation and redevelopment of the Hoyt Street Railyard property. In 2015, the deadline expired and DEQ issued an Explanation of Significant Difference to extend the deadline for an additional ten years (until 2025). In 2015, 6 of the 26 acres that comprise the Hoyt Street Railyard property remained undeveloped. Fences were installed around the undeveloped sites and the sites were capped to prevent contact with impacted soil.

7.0 ENVIRONMENTAL RECORDS REVIEW

Federal, tribal, state, and local environmental records and databases were compiled according to 40 CFR Part 312 and ASTM E1527-13 for the subject property and those facilities that currently or previously have occupied properties within the specified search distance from the subject property. Information contained in the records and databases was reviewed by NV5 to evaluate the potential for environmental impacts to the subject property. The EDR Radius Map Report is presented in Appendix C.

7.1 SUBJECT PROPERTY

Although the subject property is not specifically listed on the EDR Radius Map Report, the subject property is included as part of the former Hoyt Street Railyard property. The former Hoyt Street

Railyard property, consisting of approximately 26 acres, is listed on the DEQ ECSI database (DEQ ECSI Site No. 1080), DEQ VCP database, DEQ Engineering Controls Sites database, and DEQ Institutional Controls Sites database.

The DEQ ECSI database contains a listing of facilities that are or may be contaminated and may require cleanup. Information contained in the ECSI file for the Hoyt Street Railyard property was consistent with the information presented in the ROD and in a groundwater monitoring report previously discussed in Section 6.0.

The DEQ VCP database includes a list of sites where other responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with cleanups and redevelopment within the Hoyt Street Railyard property. The inclusion of the Hoyt Street Railyard on the VCP database is associated with the inclusion of the Hoyt Street Railyard property on the DEQ ECSI database.

The EPA Engineering Controls Sites database includes sites with engineering controls in place, and the EPA Institutional Controls Sites database includes sites with institutional controls in place. The inclusion of the Hoyt Street Railyard on these two databases is associated with the selected remedial actions presented in the ROD. Based on the presence of an engineering control on the subject property and the requirement to perform remedial action during redevelopment in accordance with the December 2000 ROD, the inclusion of the subject property on the ECSI database represents a CREC at the subject property.

7.2 SURROUNDING SITES

The EDR Radius Map Report identified 160 surrounding sites listed on one or more regulatory databases within the ASTM search distances. Based on changes in ownership, address, multiple regulatory listings, and multiple regulatory actions, two or more of the surrounding site listings may actually represent only one physical location. Therefore, the number of surrounding sites is likely less than reported by EDR. Based on the local topography, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that none of the 160 sites represent a REC at the subject property. However, due to their close proximity to the subject property, four of the listed sites are discussed in the following sections.

7.2.1 The Abigail

The Abigail site is located at 1650 NW 13th Avenue, adjoining the subject property to the west-northwest and upgradient of the subject property in the inferred groundwater flow direction. The Abigail site consists of Block 27 of the former Hoyt Street Railyard and is listed in the DEQ ECSI database (ECSI No. 5856), DEQ VCP database, DEQ Engineering Controls Sites database, and DEQ Institutional Controls Sites database. Based on information obtained from DEQ, soil at the site contained diesel, oil, lead, and PAHs. The Abigail apartments were constructed in 2015. During construction, over 30,000 tons of soil and debris and 225,000 gallons of stormwater and groundwater were removed from the site. The site was capped by buildings, pavement, and/or 2 to 3 feet of imported clean soil. A Conditional NFA determination was issued for the site in March 2017. Based on the redeveloped status of the site, the well-documented investigation

history of the former Hoyt Street Railyard previously discussed in Section 6.0, and the regulatory status of the site, it is our professional opinion that these database listings do not constitute a REC at the subject property.

7.2.2 Hoyt Street Railyard – Block 23

Hoyt Street Railyard – Block 23 is located at 1540 NW 13th Avenue, adjoining the subject property to the west and upgradient of the subject property in the inferred groundwater flow direction. This site is included within the former Hoyt Street Railyard and is listed in the DEQ ECSI database (ECSI No. 6352), DEQ VCP database, DEQ Engineering Controls Sites database, and DEQ Institutional Controls Sites database. Based on information obtained from DEQ, soil at the site contained diesel, oil, lead, and PAHs. In addition, methane is present within the fill beneath the site. The site is currently under construction for a senior living facility. As stipulated in the 2000 ROD for the former Hoyt Street Railyard, impacted soil was removed from the site during construction and the site will be capped by buildings, pavement, and/or 2 to 3 feet of imported clean soil. Based on the given that the site is currently being redeveloped, and the well-documented investigation history of the former Hoyt Street Railyard previously discussed in Section 6.0, it is our professional opinion that these database listings do not constitute a REC at the subject property.

7.2.3 Hoyt Street Railyard – Block 20

Hoyt Street Railyard – Block 20 is located at 1150 NW Quimby Street, adjoining the subject property to the south and cross-gradient of the subject property in the inferred groundwater flow direction. The site is included within the former Hoyt Street Railyard and is listed in the DEQ ECSI database (ECSI No. 6116), DEQ VCP database, DEQ Engineering Controls Sites database, and DEQ Institutional Controls Sites database. Based on information obtained from DEQ, soil at the site contained diesel and heavy oil and soil gas contained methane. Between 2016 and 2017, during the construction of the existing Vista North Pearl condominiums, approximately 27,000 tons of soil were excavated and taken off site and 200,000 gallons of groundwater and surface water runoff were pumped from the excavation pit. The site was capped by a building equipped with a methane mitigation system. A Conditional NFA determination was issued for the site in May 2020. Based on the redeveloped status of the site, the well-documented investigation history of the former Hoyt Street Railyard previously discussed in Section 6.0, and the regulatory status of the site, it is our professional opinion that these database listings do not constitute a REC at the subject property.

7.2.4 Hoyt Street Railyard – The Fields

Hoyt Street Railyard – The Fields is located east of NW 11th Avenue and north of NW Overton Street and adjoins the subject property to the southeast and downgradient of the subject property in the inferred groundwater flow direction. This site consists of Blocks 19, 21, 22, and 25 of the former Hoyt Street Railyard and is listed in the DEQ ECSI database (ECSI No. 5443), DEQ VCP database, DEQ Engineering Controls Sites database, DEQ BROWNFIELDS database, and DEQ Institutional Controls Sites database. Based on information obtained from DEQ, soil at the site contained petroleum hydrocarbons, PAHs, and metals. The site was redeveloped with The Fields Park in 2013 and contains a minimum 2-foot-thick protective cap. In addition, an Easement and Equitable Servitude filed in November 2013 requires maintenance, inspection, and protection of the site cap; notifications to and protections of site workers; and restrictions on

groundwater use and construction of habitable structures at the site. A Conditional NFA was issued for the site in June 2014 and the park is open for public use. Based on the redeveloped status of the site, the well-documented investigation history of the former Hoyt Street Railyard previously discussed in Section 6.0, controls that are in place at the site, and the regulatory status of the site, it is our professional opinion that these database listings do not constitute a REC at the subject property.

7.3 ORPHAN SITES

Due to poor or inadequate address information, EDR was unable to successfully map 18 facilities identified on several environmental databases. However, enough information was available to ascertain the general location of these orphan facilities relative to the subject property and, in some cases, the status of the investigations concerning these orphan sites. Based on the location of the orphan sites, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that these orphan sites do not represent a REC at the subject property.

7.4 CITY OF PORTLAND FIRE BUREAU

On April 18, 2022, NV5 submitted a public records request to the City of Portland Fire Bureau for available UST or AST permits for the subject property. On April 22, 2022, a representative of the City of Portland Fire Bureau responded, stating that there are no records on file for the subject property.

7.5 PBOT

On April 18, 2022, NV5 contacted PBOT for records of USTs in the ROWs adjoining the subject property. On April 18, 2022, a representative of PBOT responded, stating that they do not have records of USTs located in the ROWs adjoining the subject property.

8.0 SUBJECT PROPERTY HISTORY AND BACKGROUND

Reasonably ascertainable information concerning the history and background of the subject property begins in 1889 and includes aerial photographs, USGS topographic maps, reverse city directories, Sanborn fire insurance maps, and online property information (including available building department records, property tax information, and zoning/land use records).

Historical aerial photographs of the subject property were obtained from EDR and reviewed by NV5. The scale of the photographs reviewed allowed for the interpretation of general site development/configuration but did not allow for the identification of specific subject property features. Aerial photographs were reviewed for the following years: 1936, 1948, 1951, 1955, 1960, 1963, 1970, 1975, 1981, 1990, 1994, 2000, 2005, 2009, 2012, and 2016. The historical aerial photographs are presented in Appendix D.

Historical topographic maps of the subject property were obtained from EDR and reviewed by NV5. Topographic maps were reviewed for the following years: 1897, 1905, 1940, 1954, 1961, 1970, 1977, 1995, 2014, 2017, and 2020. The historical topographic maps are presented in Appendix D.

Reverse city directories for the subject property and adjoining properties were obtained from EDR and reviewed by NV5. The city directories were reviewed (if available) at approximately five-year intervals for the years spanning 1935 through 2017. The EDR City Directory Report is presented in Appendix D.

Sanborn fire insurance maps for the subject property were obtained from EDR and reviewed by NV5. Sanborn fire insurance maps were reviewed for the following years: 1889, 1901, 1908, 1950, and 1969. The Sanborn fire insurance maps are presented in Appendix D.

Online property information for the subject property and select adjoining properties was reviewed by NV5. The online property information is presented in Appendix D.

8.1 SUBJECT PROPERTY

Based on the review of historical sources cited in Section 8.0, we have identified the following developmental history of the subject property:

Year	Observations	Source
1889 through 1901	By 1889, the subject property consisted of lumber storage with horse stalls on the northwestern portion. The subject property appeared vacant by 1901.	• Topographic Map • Sanborn Fire Insurance Maps
1905 through 1994	By 1905, the subject property consisted of a railyard, with multiple railroad tracks traversing the property.	• Aerial Photographs • Topographic Maps • Sanborn Fire Insurance Maps
1995 through present	By 1995, the railroad tracks were removed from the subject property and it appeared as vacant land. By 2016, the subject property appeared to have been lightly used as a storage yard. Since March 2021, the subject property has been used as a construction staging area by Walsh Construction.	• Aerial Photographs • Topographic Maps • City Directories • Site Reconnaissance

The subject property historically consisted of lumber storage yards and a railyard and was located on a portion of the former Hoyt Street Railyard. Based on the presence of an engineering control on the subject property and the requirement to perform remedial action during redevelopment in accordance with the December 2000 ROD, the historical use of the subject property represents a CREC at the subject property.

8.2 ADJOINING SITES

Based on the review of historical sources cited in Section 8.0, we have identified the following developmental history of properties adjoining the subject property:

Year	Observations	Source
1889 through 1901	By 1889, the existing NW Quimby ROW had been constructed south of the subject property. The properties north, east, and west of the subject property consisted of lumber storage areas with various access roads. A hotel was present southeast of the subject property with undeveloped areas to the south and southwest.	• Topographic Maps • Sanborn Fire Insurance Maps
1905 through 1975	By 1905, the properties immediately north, east, and south of the subject property consisted of railroad tracks and portions of a larger railyard. A vacant area followed by a horse corral was present west of the subject property. Additional railroad tracks were present to the west by at least 1936. By 1950, a coal yard was present to the southwest and a lumber yard to the west. By 1969, the coal and lumber yards were no longer visible. The 1969 Sanborn map also shows a small oil house on the property to the west.	• Aerial Photographs • Topographic Maps • City Directories • Sanborn Fire Insurance Maps
1981 through present	By 1981, a commercial structure was constructed southwest of the subject property. By 2000, railyard use of the adjoining properties had ceased and railroad tracks had largely been removed with railroad tracks remaining along the northeastern subject property boundary. By 2016, a mixed-use structure was constructed northwest of the subject property and a city park was constructed southeast of the subject property. Sometime between 2016 and the present, a mixed-use building was constructed south of the subject property. Since 2021, the west adjacent property to the subject property has been under construction for a senior living facility.	• Aerial Photographs • Topographic Maps • City Directories • Site Reconnaissance

The properties surrounding the subject property were historically located within the former Hoyt Street Railyard. Refer to Sections 6.0 and 7.2 for further discussion on the former Hoyt Street Railyard and adjoining sites that were located within the former Hoyt Street Railyard.

9.0 SITE RECONNAISSANCE

Connor Ellis of NV5 conducted a reconnaissance of the subject property on April 21, 2022. The observations described in this section apply to the subject property as it appeared on that day. The site reconnaissance was performed to observe the current condition of the subject property and obtain information indicating the likelihood of identifying RECs in connection with the subject property. Some portions of the subject property were inaccessible due to the presence of job trailers or stored material. The adjoining properties were also observed from the boundaries of

the subject property as part of the site reconnaissance. A site plan is presented on Figure 2. Photographs of the subject property were taken to document observations made during the site reconnaissance and are presented on Figures 3 through 5.

9.1 GENERAL SUBJECT PROPERTY USE

The subject property consists of a gravel lot that is currently used by Walsh Construction as a construction staging area for a construction project on the west adjoining property. Multiple job trailers are located on the northern portion of the subject property. The eastern and southwestern portions of the subject property are used for storage of equipment and construction material. The southeastern portion of the subject property is used for vehicle parking. In addition, an erosion control berm is present along the eastern boundary of the subject property.

9.2 SUBJECT PROPERTY OBSERVATIONS

Features of Concern	Observations
Subject Property Structures	See Section 9.2.1
Subject Property Drainage	See Section 9.2.2
Potable Water Supply	Not observed
Sewage Disposal System	Not observed
Roads	See Section 9.2.3
Hazardous Substances and Petroleum Products	See Section 9.2.4
ASTs and/or USTs	Not observed
Strong, Pungent, or Noxious Odors	Not observed
Pools of Liquid	See Section 9.2.5
Drums (5 gallons or larger capacity)	Not observed
Unidentified Substance Containers	Not observed
Potential PCB-Containing Equipment	See Section 9.2.6
Pits, Ponds, and Lagoons	Not observed
Stained Soil or Stained Pavement	Not observed
Stressed Vegetation	Not observed
Solid Waste or Fill Material	See Section 9.2.7
Wastewater	Not observed
Wells	See Section 9.2.8
Historical Septic Systems/Cesspools	Not observed
Heating and Cooling Systems	Not observed
Interior Stains or Corrosion	Not observed
Interior Drains or Sumps	Not observed

9.2.1 Subject Property Structures

Multiple modular job office trailers and storage containers are located throughout areas of the subject property and are part of temporary construction staging by Walsh Construction.

9.2.2 Subject Property Drainage

Surface water at the subject property is expected to infiltrate into the ground surface or flow into catch basins present in the south adjoining ROW. The catch basins are connected to the City of Portland stormwater sewer system. NV5 personnel did not observe surface water at the subject property at the time of our site reconnaissance.

9.2.3 Roads

The subject property is adjoined to the south by the NW Quimby Street ROW. In addition, the central and southern portions of the subject property consist of graveled areas for equipment drop-off and vehicle or equipment parking. Evidence of spillage or waste disposal was not observed within the adjoining ROW or gravel areas of the subject property.

9.2.4 Hazardous Substances and Petroleum Products

Multiple small-quantity (e.g., less than 5 gallons) containers of oils, paints, and construction adhesives were observed on the northern portion of the subject property and in two chemical storage cabinets on the northern portion of the subject property. The containers appeared to be properly stored and evidence of releases from the containers was not observed at the time of the site reconnaissance.

9.2.5 Pools of Liquid

Some standing water, likely from recent heavy rains, was observed in various locations across the subject property. Petroleum-like sheens or odors were not observed.

9.2.6 Potential PCB-Containing Equipment

One pad-mounted transformer was observed on the northwestern portion of the subject property. The transformer was labeled as containing “No PCBs.” The transformer appeared to be in good condition with no evidence of spillage or leaks.

9.2.7 Solid Waste or Fill Material

We observed an approximately 300-foot by 15-foot berm of soil stockpiled along the eastern boundary of the subject property. According to Laura Waddick with Walsh Construction, on-site soil was graded to the eastern boundary and into a berm for erosion control purposes. According to Ms. Waddick, fill soil has not been imported since she has been associated with the subject property. We did not observe evidence of deleterious material within the erosion control berm.

In addition, a stockpile of gravel was observed near the southeastern corner of the subject property. Ms. Waddick stated that the gravel is periodically applied to the subject property to control rutting and ponding in muddy areas.

Solid waste generated from the subject property is stored in two dumpsters, serviced by Waste Management, on the southern portion of the subject property. One dumpster is for general trash and refuse and one dumpster is for concrete recycling. Deleterious material was not observed the solid waste in the dumpsters at the time of the site reconnaissance.

9.2.8 Wells

Three groundwater monitoring wells, identified during previous investigations as LTM-105, LTM-106, and LTM-107, were located on the subject property. Monitoring wells LTM-106 and LTM-107 are located on the eastern and northern portions of the subject property, respectively. Monitoring well LTM-105 could not be observed during the site reconnaissance due to obstruction from stored construction material and equipment.

9.3 SURROUNDING PROPERTY USE

The subject property is directly bound to the north and northeast by railroad tracks, across which is NW Naito Parkway; to the southeast by The Fields Park; to the south by NW Quimby Street, across which is Vista North Pearl condominiums; to the southwest by the intersection of NW Quimby Street and NW 12th Avenue, across which is The Parker apartments; to the west by a construction site; and to the northwest by The Abigail apartments. Evidence of adverse environmental conditions was not observed on adjoining properties.

10.0 INTERVIEWS

The subject property is currently owned by Hoyt Street Properties LLC and occupied by Walsh Construction. NV5 interviewed the current owner, current occupant, and a local government official during the course of this assessment. Information obtained from these interviews is presented in the following sections.

10.1 CURRENT OWNER

Tiffany Sweitzer (owner representative) completed a Phase I ESA Property Owner Questionnaire regarding the subject property on April 28, 2022. Ms. Sweitzer has been familiar with the subject property for approximately 25 years. According to Ms. Sweitzer, the subject property was originally owned by the BNSF railroad. She stated that the subject property is under a Consent Decree and ROD and has undergone cleanup with DEQ oversight. Ms. Sweitzer was otherwise not aware of environmental complaints, environmental lawsuits, illegal dumping or hazardous waste disposal, or other environmental concerns in connection with the subject property.

10.2 CURRENT OCCUPANT

Laura Waddick (assistant superintendent with Walsh Construction) was interviewed on April 21, 2022, regarding her knowledge of the subject property. Ms. Waddick has been familiar with the subject property since March 2021. According to Ms. Waddick, the subject property was previously a vacant lot and Walsh Construction currently uses the subject property as a construction staging area. Ms. Waddick stated that the staging area includes job trailers, material storage, and parking areas. Ms. Waddick was not aware of past or current industrial uses of the subject property. She was also not aware of any USTs or ASTs on the subject property. Ms. Waddick was aware of small quantities of petroleum and chemical storage, which is kept within chemical storage cabinets on the northern portion of the subject property. She was not aware of any chemical or petroleum spills on the subject property. Ms. Waddick was not aware of environmental complaints or lawsuits, environmental liens, AULs, or other environmental concerns in connection with the subject property.

10.3 LOCAL GOVERNMENT OFFICIAL

On April 18, 2022, NV5 submitted a public records request to the City of Portland Bureau of Development Services for available permits or plans for the subject property. On April 22, 2022, a representative of the City of Portland directed NV5 to records that had been uploaded to the Portland Maps website. NV5's review of the records posted to the Portland Maps website did not identify RECs at the subject property.

11.0 DATA GAPS

Surface features across portions of the subject property could not be observed due to parked vehicles and staged construction equipment. It is our professional opinion that this data gap is of low significance relative to our ability to identify RECs at the subject property.

12.0 DECLARATIONS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We developed and performed all the appropriate inquiries in accordance with the standards and practices set forth in 40 CFR Part 312.

13.0 LIMITATIONS

This Phase I ESA has been prepared for use by Greystar. NV5 makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. Information provided by others was relied on in our description of historical conditions and review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations, or incidents at the subject property or adjoining properties. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property. There is always a potential that areas with contamination that were not identified during this assessment exist at the subject property or in the study areas. Further evaluation of such potential would require additional research, subsurface exploration, sampling, and/or testing.

Some substances may be present in the subject property vicinity in quantities or under conditions that may have led or may lead to contamination of the subject property but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. NV5 cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substance change or if you are required to meet more stringent standards in the future.

This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance on this report by other parties is strictly at the risk of those parties, and NV5 will grant no third-party reliance unless specifically requested in writing by our client for whom this report was prepared.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

♦ ♦ ♦

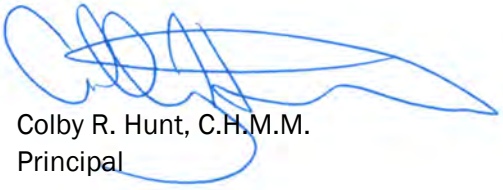
We appreciate the opportunity to be of service to Greystar. Please call if you have questions regarding this report.

Sincerely,

NV5

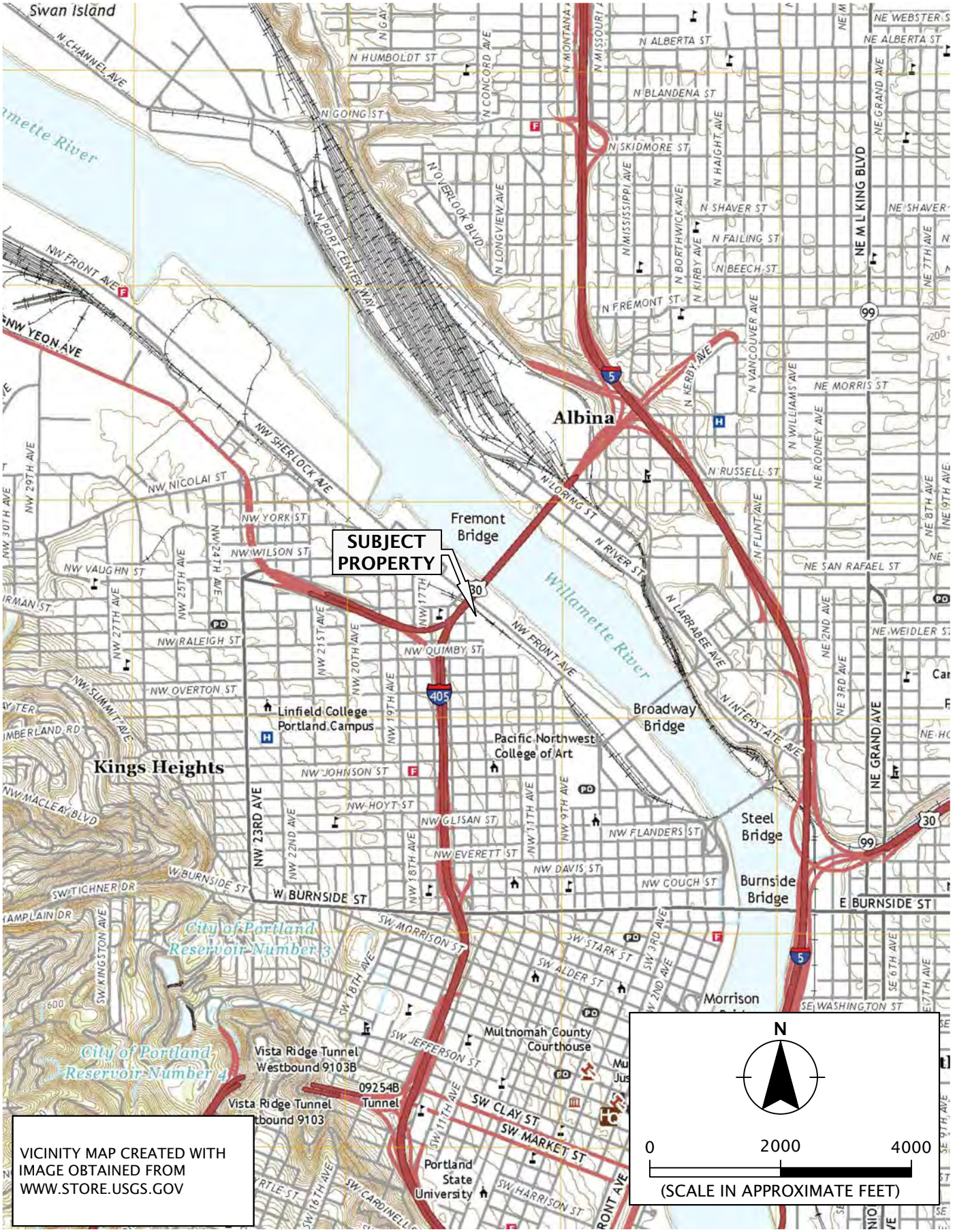


Connor J. Ellis
Project Manager



Colby R. Hunt, C.H.M.M.
Principal

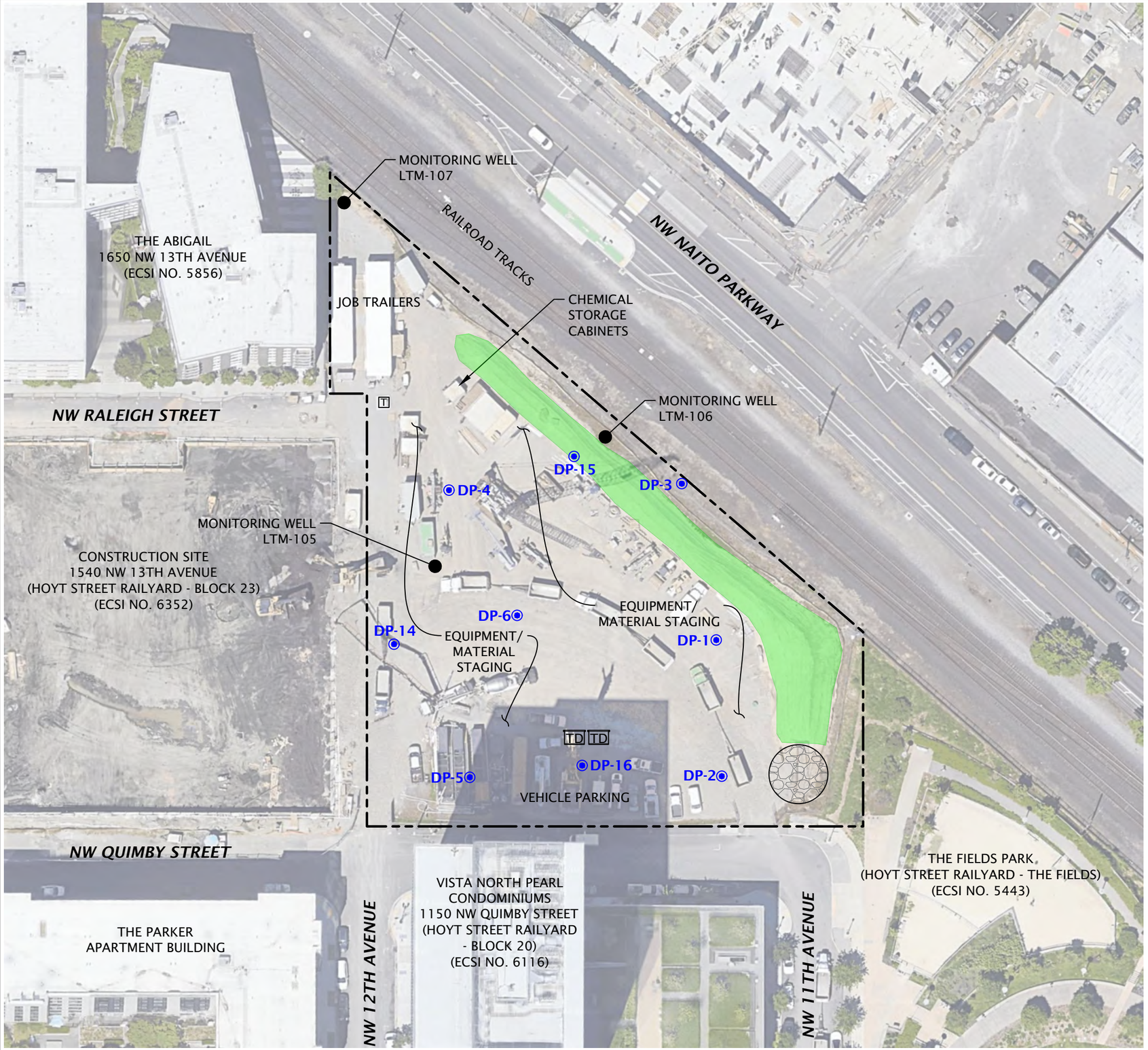
FIGURES



VICINITY MAP CREATED WITH IMAGE OBTAINED FROM WWW.STORE.USGS.GOV

NV5	GREYSTAR-9-02	**VICINITY MAP**	
	MAY 2022	BLOCK 24 – FORMER HOYT STREET RAILYARD PORTLAND, OR	**FIGURE 1**

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LEGEND:

- SUBJECT PROPERTY BOUNDARY
- DP-1 DIRECT-PUSH BORING (GEODESIGN, 2010)
- PAD-MOUNTED TRANSFORMER
- TD CONCRETE AND TRASH DUMPSTER
- EROSION CONTROL BERM
- GRAVEL STOCKPILE

N

0 60 120

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH
OBTAINED FROM GOOGLE EARTH PRO®
APRIL 27, 2022

SITE PLAN

BLOCK 24 – FORMER HOYT STREET RAILYARD
PORTLAND, OR

FIGURE 2

GREYSTAR-9-02

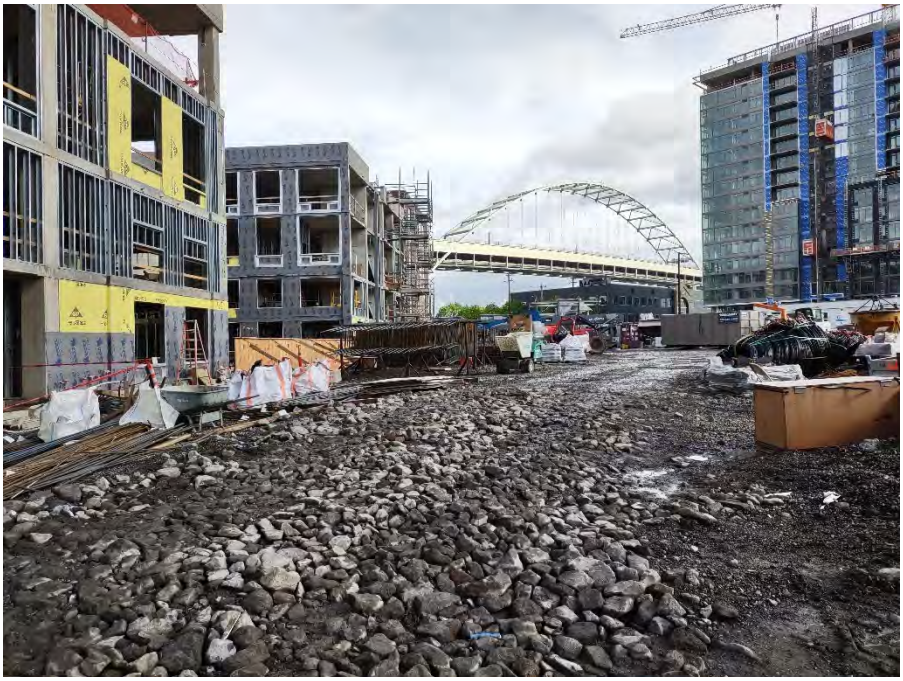
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SOUTHERN PORTION OF THE SUBJECT PROPERTY. PHOTOGRAPH TAKEN FACING NORTHWEST FROM THE SOUTHEASTERN CORNER OF THE SUBJECT PROPERTY.



WESTERN PORTION OF THE SUBJECT PROPERTY. PHOTOGRAPH TAKEN FACING NORTH.



MONITORING WELL LOCATED ALONG THE NORTHEASTERN SUBJECT PROPERTY BOUNDARY.



TYPICAL CONSTRUCTION MATERIAL STORAGE ON THE SUBJECT PROPERTY.



CHEMICAL STORAGE CABINETS LOCATED ON THE NORTHERN PORTION OF THE SUBJECT PROPERTY.



TYPICAL CONSTRUCTION MATERIALS STORAGE ON THE SUBJECT PROPERTY.

APPENDIX A

NV5

FIRM PROFILE

NV5 offers a wide array of civil engineering-related services with over 100 offices nationwide and overseas and more than 4,000 staff. In 2020 gross revenue was over $600 million, NV5 has a proven ability to help clients plan, design, build, test, and operate projects that improve the communities where we live and work. Locally, the NV5 team provides integrated environmental and geotechnical engineering services from Wilsonville, Oregon; and Vancouver, Longview, Tacoma, and Bothell, Washington. Locally, the NV5 team (formerly GeoDesign) has more than 60 engineers, geologists, environmental scientists, engineering geologists, hydrogeologists, technical personnel, and support staff.

From planning and design through construction, we offer consulting services in support of commercial and residential developments, industrial facilities, property transactions, regulatory compliance, and transportation and water infrastructure systems. NV5 works on all phases of project development, including preliminary studies for due diligence, master planning studies, siting of new structures and utility and road alignments, regulatory studies (such as NEPA documents), comprehensive investigations for final geotechnical design, oversight of environmental clean-up activities, and construction observation and testing.

NV5

COLBY R. HUNT, CHMM

Principal

Colby Hunt has over 25 years of experience conducting various environmental and hazardous materials assessments, including Phase I and II ESAs, HMAs, RI/FSs, land and water use determinations, risk-based analyses, groundwater monitoring, and remediation projects. He has a BS in Environmental Health and Safety, is an AHERA Building Inspector and Management Planner, and is a Certified Hazardous Materials Manager (CHMM). Colby has successfully managed projects involving hazardous materials surveys and asbestos abatement projects at remote facilities throughout Oregon and Washington, as well as numerous asbestos and lead-based paint assessments for residential, commercial, and industrial facilities.

Key Projects

- Bellevue School District, Commercial Properties, Bellevue, WA
- Bellevue Towers; Bellevue, WA
- Bridge Housing Corporation, The Abigail, Portland, OR
- City of Hillsboro, North Hillsboro Due Diligence, Hillsboro, OR
- City of Lake Oswego, Lake Oswego City Hall, Lake Oswego, OR
- City of Seattle, DoIT Transmitter Station – Maple Leaf Reservoir; Seattle, WA
- Clackamas County, Otty Street Realignment, Clackamas County, OR
- Engineering for 19th, 26th, and Willamina Avenue Improvements, Forest Grove, OR
- Halsey Pulp Mill, Halsey, OR
- ODOT, SE 17th Avenue Trail – SE to SE McLoughlin; Milwaukie, OR
- ODOT, Springwater Trail Gap (SE Umatilla Street to SE 13th Avenue), Portland, oR
- Oregon Health & Science University, Block 33 Development, Portland, OR
- Oregon Health & Science University, Schnitzer Campus, Portland, OR
- Pacific Northwest College of Art, Proposed GSA Building Renovation; Portland, OR
- Proposed OHSU Knight Cancer Research Building; Portland, OR
- South Waterfront Development - Various Projects; Portland, OR
- The Oregonian Building; Portland, OR
- The Trust for Public Land, ESAs for Various Projects; OR and WA
- University of Oregon, Romania Site, Eugene, OR
- USDA Forest Service, Fire Salvage of Office Structure at 88401 OR- 82; Enterprise, OR
- USDA Forest Service, Wallowa-Whitman National Forest; Various Facilities, OR
- Washington County Facilities Management, On-Call Environmental Services Contract; OR
- Washington County, Cornell Road – Cedar Hills Boulevard to 102nd Avenue, Portland, OR
- Washington County, Fairgrounds: Wingspan Event & Conference Center, Hillsboro, OR
- Washington County, Spring Hill Road Bridge Replacement, Washington County, OR
- Zidell Waterfront Property; Portland, OR

Credentials/Certifications

BS, Environmental Health and Safety, Oregon State University, 1993
HAZWOPER Training and Annual Updates
AHERA Building Inspector and Management Planner
Institute of Hazardous Material Management Certified Hazardous Materials Manager (Senior Level)
Respirator Fit Test Certification

NV5

CONNOR ELLIS

Project Manager

Connor Ellis joined NV5 in September 2021 as a full-time environmental project manager. He has 7 years of environmental experience focusing on project management, due diligence, hazardous building materials assessments, Phase I Environmental Site Assessments (ESAs), industrial hygiene monitoring, and abatement oversight. For NV5's environmental team, Connor is assisting with Phase I and II ESAs, hazardous building materials surveys, and other services. Connor holds a M.S. in Environmental Science, an AHERA Building Inspector certification, and AHERA Project Designer Certification, and is an Oregon-licensed Lead Risk Assessor.

Key Projects

- Umpqua Bank, Phase I ESAs; OR and WA*
- Union Bank, Phase I ESAs; OR and WA*
- BNRG Renewables, Phase I ESA Portfolios; Multiple Locations, OR*
- Cypress Creek Renewables, Phase I ESA Portfolios; Multiple Locations, OR*
- Former Mushroom Farm; Salem, OR*
- Agri-NW, Inc., Diesel AST Spill Response Oversight; Plymouth, WA
- Regional Healthcare Provider, Hazardous Building Materials Surveys and Consulting; Multiple Locations, WA*
- BNSF Railway, Hazardous Building Materials Surveys and Consulting; Multiple Locations, OR and WA*
- City of Silverton, Former Eugene Field School; Silverton, OR*
- Portland Bureau of Environmental Services, On-Call Environmental Services Contract; Portland, OR*
- Department of Veterans Affairs, White City VA Medical Center; White City, OR*
- Equity Lifestyle Properterties, Asbestos Surveys; Multiple Locations, OR*
- Simon Roofing and Sheet Metal Corporation, Asbestos Surveys; Multiple Locations, OR*
- Northwestern Mutual, Phase I ESAs; Multiple Locations, OR and WA*

** Experience prior to NV5*

Credentials/Certifications

MS, Environmental Science, University of Idaho, 2020
BS, Environmental Studies, University of Nebraska-Omaha, 2013
AHERA Asbestos Building Inspector
AHERA Asbestos Project Designer
Oregon Lead Risk Assessor
NIOSH 582 Microscopist
40-Hour HAZWOPER Certification

APPENDIX B

NV5

PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Project Number	Greystar-9-02
Project Name	Block 24 – Former Hoyt Street Railyard
Subject Property Location	NW 12th Avenue and NW Quimby Street; Portland, OR

Please answer the following questions ***to the best of your knowledge***. If the answers to any of the questions are "yes", or if you need to provide further explanation to any "no" answers, please provide additional detail in the space below each question.

1. Has the user conducted a search of recorded land title records or judicial records[1] to identify environmental liens or Activity Use Limitations (AULs) such as environmental engineering controls, land use restrictions, or institutional controls that are filed against the subject property under federal, tribal, state, or local law? **Please note, the search is required to meet ASTM standards.**

☐ No ☒ Yes

If "yes" were any environmental liens or AULs identified (please describe)?: DEQ Record of Decision for Hoyt Street Railyard on 12/15/2000.

https://www.deq.state.or.us/Webdocs/Forms/Output/FPController.ashx?SourceId=1080&SourceIdType=11

2. Does the user have any specialized knowledge or experience[2] related to the subject property or nearby properties?

☒ No ☐ Yes

Describe if "yes": _____

3a. Does the purchase price being paid for the subject property reasonably reflect the fair market value?

☐ No ☒ Yes ☐ Not Applicable

[1] Some jurisdictions specify that environmental liens or AULs be filed in judicial records rather than in land title records.
[2] For example, are you involved in the same line of business as the current or former occupants of the subject property or adjoining properties, such that you would have specialized knowledge of the chemicals and processes used by this type of business.

3b. If the answer to question 3a is no, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

☐ No ☐ Yes ☒ Not Applicable

Describe if "yes": _____

4a. Is the user aware of commonly known or reasonable ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

☐ No ☒ Yes

Describe if "yes": Information provided by NV5 via proposal dated 4/12/2022 and NV5/GeoDesign Phase I ESA conducted for 2BD, LLC dated 12/21/2010.

4b. Does the user know the past uses of the subject property?

☐ No ☒ Yes

Describe if "yes": Currently vacant lot that was previously used as a railyard.

4c. Does the user know of specific chemicals that are present or once were present at the subject property?

☐ No ☒ Yes

Describe if "yes": Per information provided by the above referenced Phase I dated 12/21/2010.

4d. Does the user know of spills or other chemical releases that have taken place at the subject property?

☐ No ☒ Yes

Describe if "yes": Per information provided by the above referenced Phase I dated 12/21/2010.

4e. Does the user know of any environmental cleanups that have taken place at the subject property?

☒ No ☐ Yes

Describe if "yes": _____

_____

5. Does the user know of any obvious indicators that point to the presence or likely presence of releases at the subject property?

☒ No ☐ Yes

Describe if "yes": _____

_____

User Representative Name and Title: Michael Burkin_____

Date Questionnaire Completed: 4/12/2022_____

Years Associated with the Subject Property: <1_____



State of Oregon
Department of
Environmental
Quality

RECORD OF DECISION

SELECTED REMEDIAL ACTION

For

HOYT STREET RAILYARD
PORTLAND, OREGON

Prepared by

ENVIRONMENTAL CLEANUP
NORTHWEST REGION
SITE RESPONSE PROGRAM

DECEMBER 15, 2000

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1 INTRODUCTION

This document presents the selected remedial action for the Hoyt Street Railyard site located in northwest Portland, Oregon. The selected remedial action was developed in accordance with Oregon Revised Statutes (ORS) 465.200 through 465.380, and Oregon Administrative Rules (OAR) Chapter 340, Division 122, Section 0090 (340-122-0090).

The selected remedial action is based on the administrative record for the site. A copy of the Administrative Record Index is attached as Appendix B. This Record of Decision summarizes the more-detailed information contained in the administrative record, particularly the *Remedial Investigation Report for the Burlington Northern Hoyt Street Site* (RETEC, October 1996), *Hoyt Street Property RI/FS Risk Assessment Report* (RETEC, February 1998), and *Final Feasibility Study Report* (ThermoRetec, July 1999).

This Record of Decision is organized as follows:

Section 2: Site Description, Land Use, and History. This section provides a description of the physical setting and surrounding land use of the Hoyt Street Railyard site, an overview of the history of site operations, and a summary of environmental investigations performed at the site.

Section 3: Remedial Investigation Summary. This section summarizes information presented in the Remedial Investigation Report regarding source areas, contaminants of concern, nature and extent of contamination, and contaminant fate and transport. This section also includes summaries of interim remedial measures conducted at the site, results of the land and water use determination, the baseline risk assessment, and hot spot determination.

Section 4: Remedial Action Objectives, Cleanup Levels and Hot Spot Criteria and Analysis. This section identifies the remedial action objectives (RAOs) and associated health-based action levels (RBCs) for affected media, and hot spot criteria for soils at the site. The information presented in this section provides the key information for development of remedial action alternatives in Section 5, and evaluation of the alternatives in Section 6 of the report.

Section 5: Description of Alternatives. This section provides a description of the remedial alternatives for soil and groundwater identified in the feasibility study.

Section 6: Evaluation of Alternatives. This section provides the individual and comparative evaluation of the alternatives using the remedial action selection criteria as specified by the Oregon Environmental Cleanup Rules.

Section 7: Selected Remedial Action. This section describes the selected remedial action alternative for soils, groundwater, and LNAPL at the site and demonstrates how the selected alternative satisfies the protection and feasibility requirements.

Section 8: Public Notice and Comments. This section provides a description of the public notice and participation activities performed in accordance with Oregon Administrative Rules.

Section 9: Documentation of Significant Changes. This section identifies and describes significant changes to the original recommended remedial action (Staff Report) and reasons for the changes.

Section 10: Final Decision of the Director. This section summarizes the determination that the selected remedial action for the site meets statutory and regulatory requirements. The DEQ Deputy Director's signature is also included.

Appendix A: Responsiveness Summary. This appendix provides a summary of the substantive public comments received during the public comment period and DEQ's response to those comments.

Appendix B: Administrative Record. This appendix contains a listing of the site-specific documents, regulations, and guidance and technical information sources that formed the basis for this Record of Decision.

2 SITE DESCRIPTION AND HISTORY

2.1 SITE SETTING

The former Hoyt Street Railyard is located in northwest Portland, Oregon, south of the Willamette River (Figure 2-1). The 26-acre site has been used for industrial purposes since the late 1800s, and was a railyard from the early 1900s until 1998. The area is being converted from industrial land use to mixed use, including residential, commercial, and industrial. The site is flat and approximately 15% of the site is currently covered with impermeable surfaces, including buildings and concrete pads.

2.1.1 Site Location

The former Hoyt Street Railyard site is bounded by Naito Parkway (formerly NW Front Avenue) to the north, NW 9th Avenue to the east, NW Lovejoy Street to the south and NW 12th Avenue to the west. In addition, the site includes the two blocks south of NW Lovejoy Street between NW 10th and NW 9th Avenues and four blocks between NW 12th and NW 14th Streets in the northwestern corner of the railyard (see Figure 2-2). Remediation and redevelopment of the southernmost block of the site, located between NW Johnson and NW Kearney Streets and NW 9th and 10th Avenues, have been completed. The work is described in the *Interim Removal Measures Report at 9th and Kearney* (RETEC, July 1996).

2.1.2 Surrounding Land Use and Populations

The former railyard is located at the northern edge of downtown Portland. This area has historically been industrial. As the City of Portland has grown, urban residential and commercial land uses have expanded northward towards the former railyard and are the planned future land uses for the site. The property uses surrounding the former railyard include urban residential, commercial, and industrial. The urban residential land use includes buildings that largely cover the land with limited landscaping and courtyards, and some parks.

The properties to the north of the former Hoyt Street Railyard (between the site and the Willamette River) include the main rail line of Portland Terminal Railway, NW Naito Parkway, and industrial and commercial properties. Portions of these properties may be redeveloped as park. Union Station and the former location of Portland Terminal Railway yards are located east of the site. The portion of the Portland Terminal Railway property adjacent to the former Hoyt Street Railyard is mostly open land; the northern portion is vacant and the southern portion is occupied by the City's Mounted Police horse stables. Redevelopment of the Portland Terminal Railway property into residential and/or commercial uses is planned for most of the property, although the main rail line will continue to traverse that property. The property south of the Hoyt Street Railyard site is currently being redeveloped with residential and commercial buildings. The area west of the railyard site is used for commercial and industrial purposes, including warehouses and

recycling facilities. As currently planned, industrial uses will continue to the west of the railyard.

The area surrounding the former Hoyt Street Railyard is zoned as EXD. This zoning allows a wide variety of development ranging from residential to light industrial. Properties west of the former railyard and north of NW Lovejoy Street are zoned for general industrial use. Property further south and west is zoned central commercial.

2.2 PHYSICAL SETTING

The former Hoyt Street Railyard site is located approximately 450 feet from the south shore of the Willamette River, in an area of Portland referred to as the River District. The area is flat and the land use is industrial, commercial, and urban residential. With the exception of the undeveloped portions of the former Portland Terminal Railyard and the former Hoyt Street Railyard, most of the area is already covered with impervious surfaces such as buildings, pavement, and sidewalks. The railyards are currently covered with gravel.

2.2.1 Geology and Hydrogeology

The site lies in the Portland Basin in northwestern Oregon. The following geologic units, listed from the ground surface down, underlie the site:

- Miscellaneous fill
- Lake bed and marsh silts
- Pleistocene sand and gravel
- Troutdale formation
- Columbia River basalts

The site was filled at the turn of the century. The fill ranges from 10 to 20 feet thick and thickens northward. The fill is highly variable and heterogeneous and includes sands, silts, and clay, as well as miscellaneous industrial and household debris including lumber, piles, sawdust, bricks, slag, cinders, glass, steel banding, and other debris.

The fill is underlain by a native, fine-grained unit, consisting of silt and clay with some sandy clay. These fine-grained soils were deposited in the lake bed, marshland, and sloughs adjacent to the Willamette River. Few borings on the site have penetrated the base of this fine-grained unit. The thickness of the unit is estimated to be 5 feet to over 10 feet based on site borings and surrounding well logs. Well logs from the area indicate that the Pleistocene sand and gravel underlying the silt consists of interbedded layers of sand and gravel with some finer grained layers. The top of the Troutdale Formation was estimated to be 90 feet below ground surface (bgs) and the Columbia River Basalt is present 300 to 400 feet bgs.

Shallow groundwater occurs under seasonal water table conditions in the fill. Due to the variability in the fill, perched water is also present in localized areas of the unsaturated zone. The shallow groundwater is primarily recharged by rainfall and drained by sewers. Groundwater is encountered at depths ranging from 6 to 25 feet bgs depending on location and, to a lesser extent, season. Shallow groundwater has a net flow direction towards the Willamette River. However, the localized flow direction of the shallow aquifer is variable and controlled by preferential flow paths, including coarser beds within the fill and sewers as shown on Figure 2-3. Slug tests and a pump test of the upper fill aquifer have indicated that the hydraulic conductivity ranges between 4.7×10^{-6} and 3.5×10^{-3} centimeters per second (0.014 to 12 feet per day).

2.2.2 Surface Water

The predominant surface water body in the vicinity of the site is the Willamette River. The site is located approximately 450 feet south of the Willamette River and approximately 12 miles south of the confluence of the Willamette and Columbia Rivers. The site lies within the Tanner Creek drainage basin, a 1,900-acre basin that channels water from the upland West Hills and surrounding industrial areas to the Willamette River.

Originally, Tanner Creek flowed through the site vicinity. When the area was filled, Tanner Creek was diverted to a brick sewer beneath NW 9th Avenue and discharged to the Willamette River. In 1916, the brick sewer was sealed off and filled with sand. This sewer no longer extends to the river as it was not encountered during a 1997 sewer extension project along Naito Parkway. The old brick sewer was replaced with the current 6.5- by 10-foot concrete Tanner Creek sewer located beneath the site along the extension of NW 10th Avenue. A 27-inch-diameter branch sewer of the Tanner Creek sewer, located approximately 16 feet bgs, was later installed under NW 9th Avenue.

The Tanner Creek sewer is owned by the City and has historically been a combined sanitary and storm sewer. Typically, the sewer carries only stormwater, but during periods of heavy rainfall, it continues to serve as a sanitary sewer overflow. The City is working to eliminate sanitary flows from the Tanner Creek sewer by the end of the year 2002.

2.2.3 Groundwater and Surface Water Uses

There are no historic, current, or projected future uses of shallow groundwater (the fill or underlying fine-grained deposits) for drinking water or industrial processes. There are no current or projected future uses of deeper groundwater in the underlying sand and gravel aquifer due to low yield and high iron content. Shallow groundwater does discharge into the Willamette River.

The beneficial uses of the Willamette River, as defined by OAR 340-041-0442, include freshwater aquatic life; domestic, industrial, or irrigation supply; livestock watering; commercial navigation and transportation; hydro-power; and recreational activities (to the extent that they do not conflict with commercial activities in Portland Harbor). The current and reasonably likely future uses of the Willamette River in the area of the former railyard include aquatic life, commercial navigation and transportation, industrial supply, and

recreation. The Willamette River near the site is not used as a source of potable water, irrigation, or for livestock watering. The Willamette River is a commercial waterway and water would require pretreatment prior to any consumptive use.

2.3 SITE HISTORY

2.3.1 Historic Railyard Operations

Before the late 1800s, the area of the former Hoyt Street Railyard was lake bed and marsh lands. The site was filled and used for a variety of industrial purposes. In the late 1800s, a pile-supported woolen mill reportedly existed in the area of the fueling facility, but its exact location is not known. A sawmill was located near the northern boundary of the property. In addition, General Petroleum operated a fueling facility on leased property in the northern part of the site, and Columbia Steel leased a portion of the site south of NW Lovejoy Street. A manufactured gas plant (MGP) was located east of the site south of NW Lovejoy Street. Railroad operations began on the property in approximately 1911.

The site had been used for railyard activities by the Burlington Northern Santa Fe Railway Company (BNSF) and its predecessors since 1911. Until the middle 1940s, fueling and maintenance activities were conducted in the northern portion of the railyard (referred to as the historic fueling area). Facility structures included an 80-foot-diameter turntable, a power house, three underground storage tanks (USTs), two large repair sheds, and various other sheds and shops.

The facility layout changed significantly in the mid-1940s, when the fueling and maintenance facility was moved to its current location in the east-central portion of the site (referred to as the second fueling area). A 110-foot-diameter turntable and a roundhouse were built. Other new shops were constructed; older shops were demolished or moved. Underground storage tanks were installed in the new fueling area. Over the years, facility operations were reduced primarily to fueling; most above-ground structures were demolished and underground storage tanks were decommissioned. In the late 1980s and 1990s, the 110-foot-diameter turntable, the operations office, and an above-ground storage tank were the main structures that remained at the site.

The site was owned by BNSF from the early 1900s until 1988. In 1988, property ownership was transferred to Glacier Park Company and BNSF began leasing the property. BNSF continued to lease the property after its sale to Walker Road Partners and subsequent owners until December 1998. The site is currently owned by Hoyt Street Properties, LLC (HSP).

Fueling operations ceased in 1997 and BNSF vacated the site at the completion of the lease in December 1998. Much of the former operations area was fenced prior to BNSF departure from the site.

2.3.2 Current Operations

The former railyard is now abandoned and most trackage has been removed. BNSF no longer conducts railroad operations on the site. BNSF does operate and maintain monitoring wells at the site and a petroleum product recovery system (see Section 3.4.1) in the second fueling area under a License for Access. HSP is using the second fueling area to store soil excavated from an adjacent construction project; other portions of the site are being used for parking of cars and construction equipment. HSP initiated site redevelopment activities over a 6-block area in the southeastern portion of the site in April 2000.

2.3.3 Environmental Investigations

Environmental investigations and product recovery at the site date back to the late 1970s, when oily water was noted discharging at the Tanner Creek sewer outfall into the Willamette River. When oily water was observed, BNSF placed oil-absorbent booms around the outfall and installed test borings and oil recovery wells along NW 9th Avenue and at other locations surrounding the second fueling area. Product recovery was initiated in 1975.

BNSF completed an additional subsurface investigation in 1988 (RETEC, February 1988) to further assess the extent of free and residual diesel fuel in the second fueling area. Additional recovery wells were installed in 1992 and 1997. BNSF constructed an expanded system for treating groundwater extracted during product recovery in 1995, as an interim removal measure in anticipation of the issuance of an Order on Consent by DEQ. BNSF continues to maintain oil booms at the Tanner Creek sewer outfall.

Site conditions have been further characterized by a series of investigations as follows:

- Presale investigations completed by Glacier Park Company in 1990 to define site-wide conditions (Hart Crowser, 1990; Mathes, 1990). These investigations included installation and sampling of test pits, borings, and monitoring wells.

- Additional investigation of the second fueling area by BNSF in the early 1990s, including well installation and slug and pump tests (RETEC, June 1992).

- Remedial investigation (RI) work completed by BNSF, which was initiated in 1995 and included the installation and sampling of test pits, borings and monitoring wells. Data collected during and prior to the RI were compiled in the report, *Remedial Investigation Report for the Burlington Northern Hoyt Street Site* (RETEC, October 1996).

- Performance of a groundwater beneficial use survey in 1996 and 1997. Results are presented in the report, *Groundwater Beneficial Use Assessment for the Hoyt Street Railyard and Surrounding Area* (RETEC, March 1997).

- Performance of a baseline human health and ecological risk assessment conducted in 1997 and 1998. Results are provided in the report, *Hoyt Street Property RI/FS Risk Assessment* (RETEC, February 1998).

- Performance of a feasibility study in 1998 and 1999 with the results provided in the report, *Final Feasibility Study, Hoyt Street Railyard* (ThermoRetec, July 1999).

- Two phases of test pits and soil sampling completed in 1998 by HSP to further characterize site conditions for development planning. Data collected by HSP were summarized in the reports, *Draft Report, Soil Investigation of Four Blocks, Hoyt Street Development* (EMCON, June 1998); *Phase 2 Soil Investigation Report, Hoyt Street Development* (EMCON, December 1998); and *Final Feasibility Study, Hoyt Street Railyard* (ThermoRetec, July 1999).

2.3.4 Regulatory History

City and State (DEQ) permits have been obtained for the discharge of process wastewater from the Hoyt Street Railyard. BNSF had a National Pollution Discharge Elimination System (NPDES) permit from EPA and DEQ for discharge of wastewater to the Willamette River via the Tanner Creek sewer from 1974 to 1993. When BNSF installed a new oil/water separator in 1993, they diverted their discharge to the City sanitary sewer under a City pretreatment program permit. A new NPDES permit was obtained from DEQ in May 1995 for the discharge of treated groundwater from the product recovery system to the Tanner Creek storm sewer.

In 1989, DEQ notified BNSF of its intent to add the site to the Confirmed Release List. BNSF compiled and presented the results of previous investigations into the report, *Preliminary Assessment Information Package* (RETEC, June 1992). The site was placed on the Confirmed Release List in September 1991 and on the Inventory, for sites requiring further action in July 1996.

In 1993, BNSF requested oversight of remediation activities in the DEQ Voluntary Cleanup Program (VCP). The Hoyt Street Railyard site was accepted into the VCP on March 11, 1994. Early in 1995, BNSF and DEQ determined that the site conditions warranted a more formal agreement, and oversight of the performance of the remedial investigation and feasibility study (RI/FS) was transferred to DEQ's Site Response Program. An Order on Consent was signed on August 16, 1995, by BNSF and DEQ, that governed the RI/FS and interim removal measures.

2.4 PLANNED SITE USE AND DEVELOPMENT

Current land use plans call for the former railyard to be redeveloped as an urban residential neighborhood. Discussions concerning redevelopment of the railyard began in the early 1980s. In 1996, the Portland City Council adopted the River District Design Guidelines and The River District Right-of-Way Framework Plans, Design Criteria, and Design Plans. According to current plans, the former railyard redevelopment will include high-density residential units with commercial uses at grade, roads, parks, and a streetcar. The general

redevelopment plan is shown on Figure 2-4. The railyard redevelopment is planned for a 10- to 15-year period. As such, redevelopment plans are not finalized and must remain flexible to allow for changes based on market demand. Nevertheless, the City's guidelines and plans, along with a development agreement between the City and the site owner, HSP, describe the overall development project scope and objectives.

An Agreement for Development between the City and HSP was signed in 1997 and modified slightly (deadlines and park locations) in 1999. In this contract, HSP agreed to increase the minimum residential density and to provide affordable housing in exchange for the City completing infrastructure improvements including:

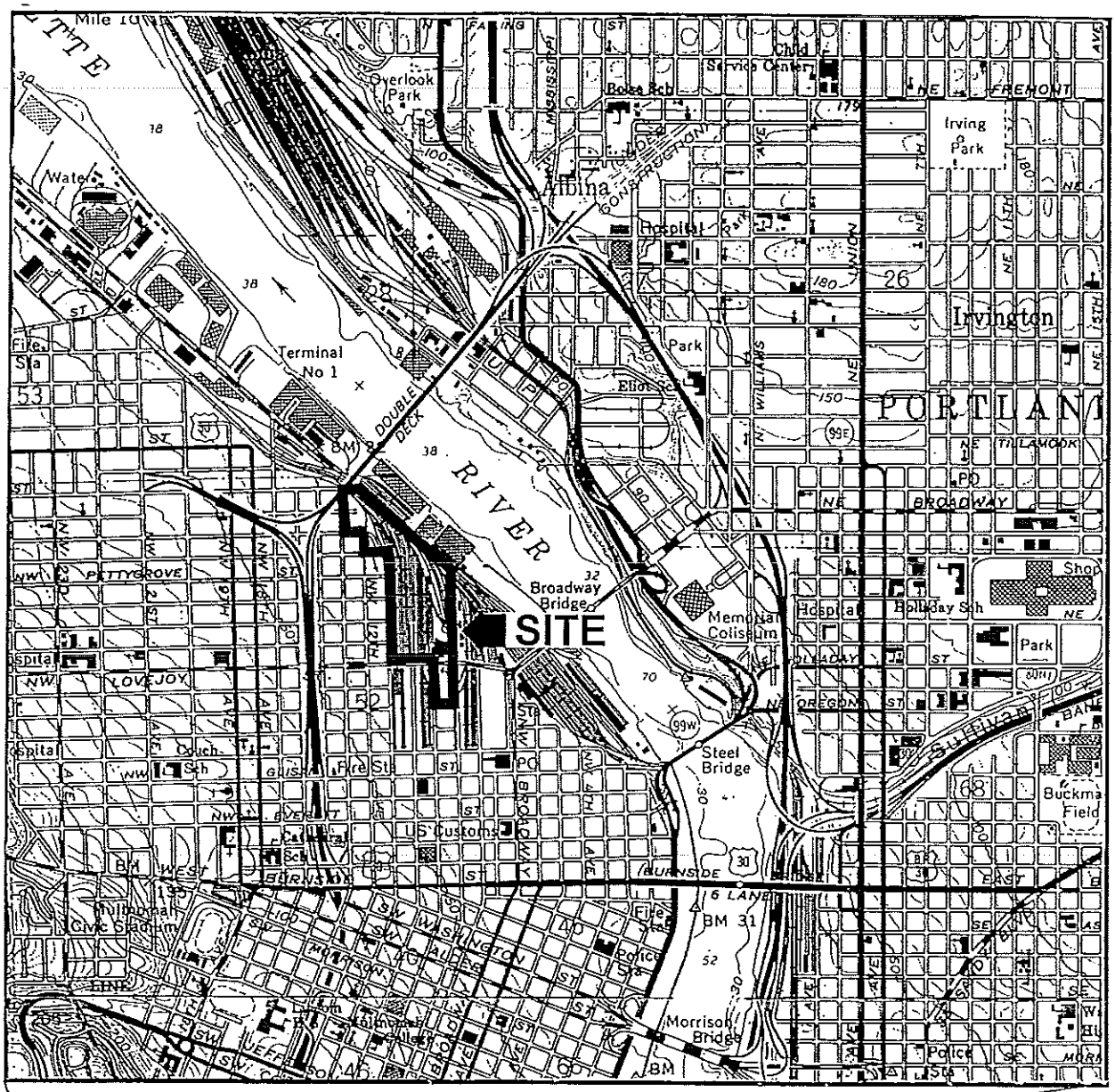
- Removal of the Lovejoy Ramp westward from NW 9th Avenue and rebuilding the street at grade.

- Extending the new streetcar system onto the site along NW 10th and NW 11th Avenues, and NW Lovejoy and NW Northrup Streets.

- Construction of parks, potentially with a water feature. The park blocks have been selected (see Figure 2-4) and the water feature is expected to be a fountain or a rivulet with a flow rate of 2 to 10 cubic feet per second.

- Design, construction, and maintenance of a city park with a water feature as a park amenity. As currently planned, this park will be located north of the site and adjacent to the Willamette River.

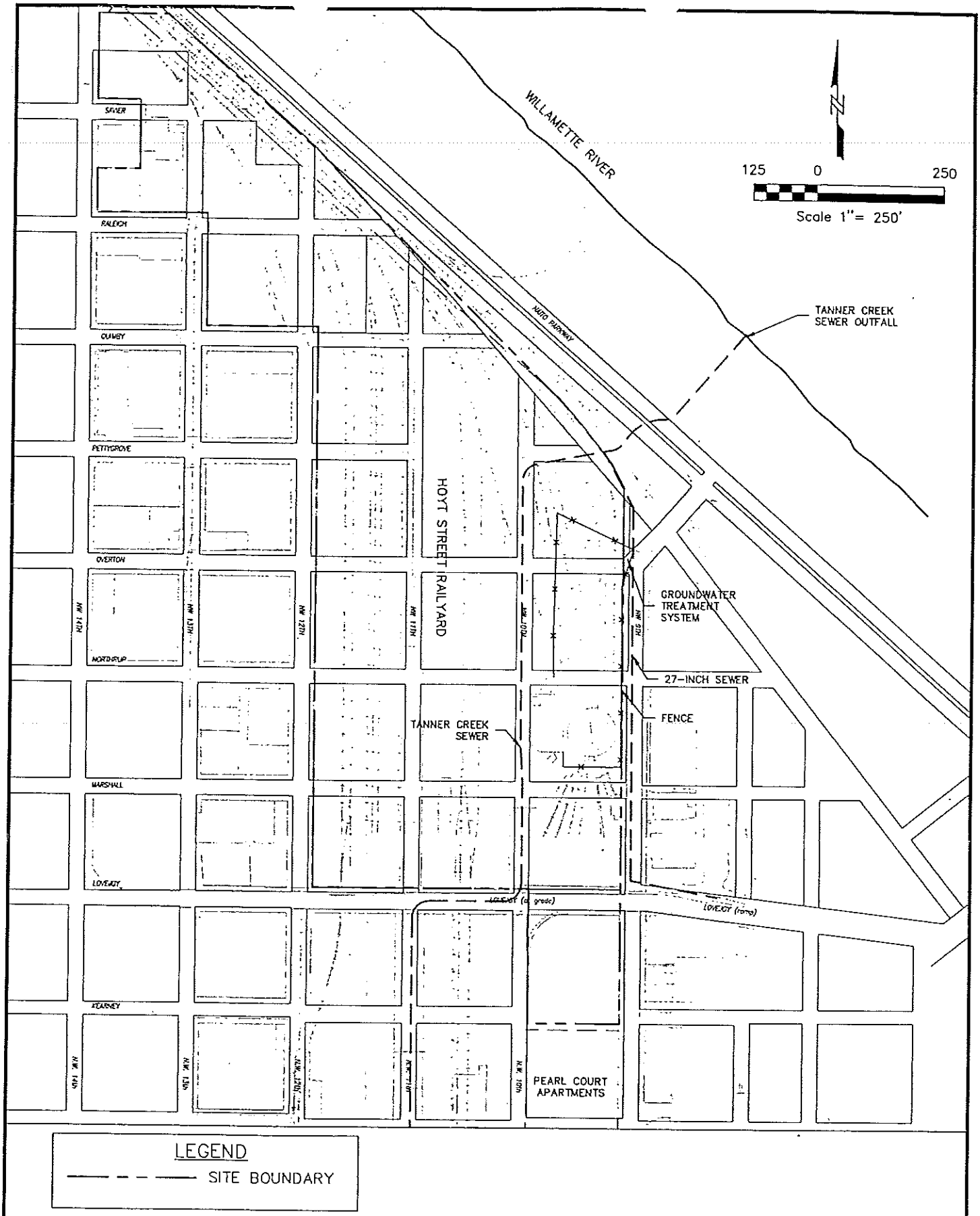
Work has begun on several of the City projects. HSP initiated site preparation work in April 2000 for redevelopment of a 6-block area in the southeastern portion of the railyard.



SOURCE: USGS 7.5 Minute Portland Quadrangle (1977).

SITE LOCATION MAP
HOYT STREET PROPERTY
PORTLAND, OREGON

FIGURE 2-1



ThermoRetec

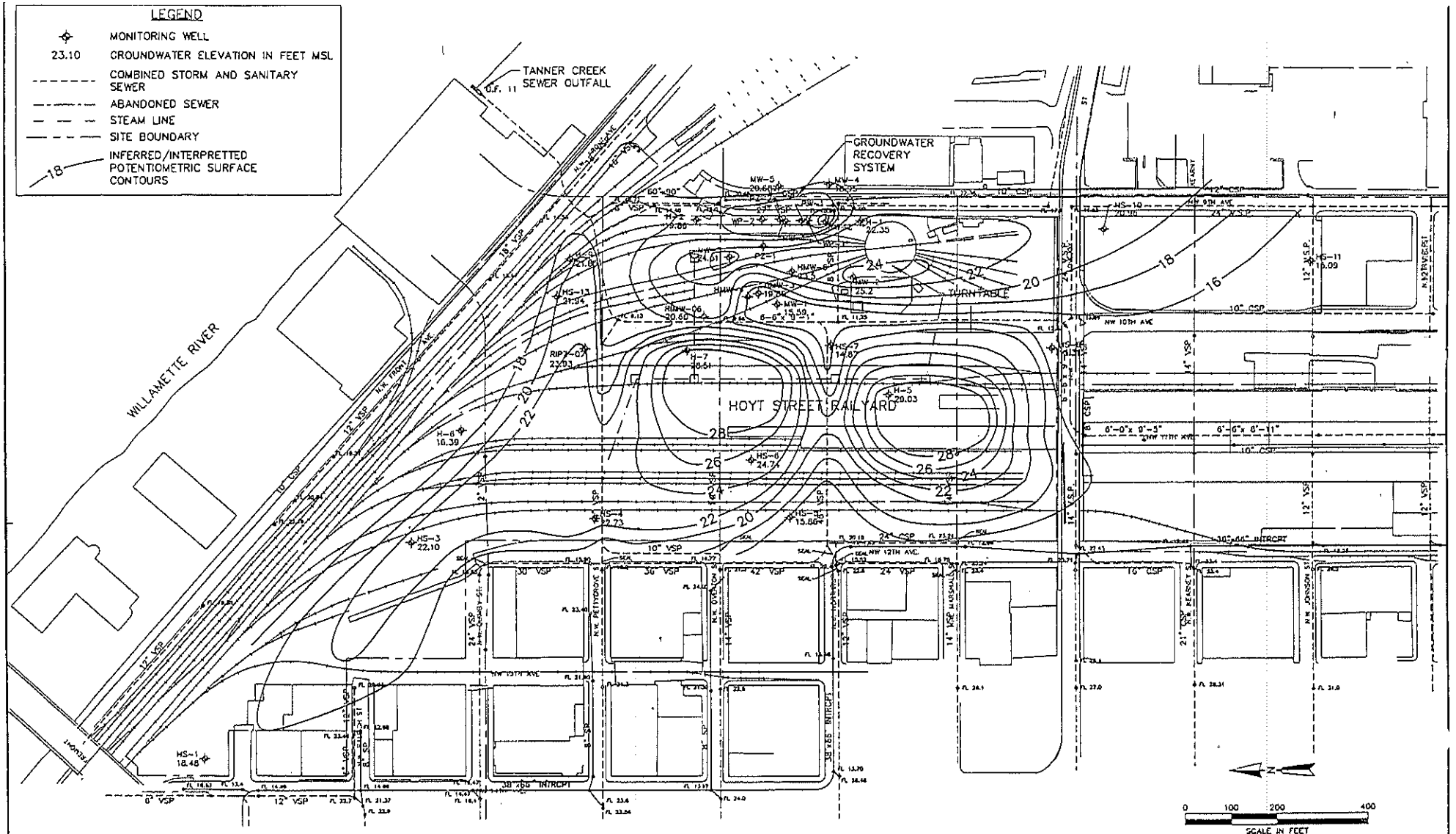
THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY

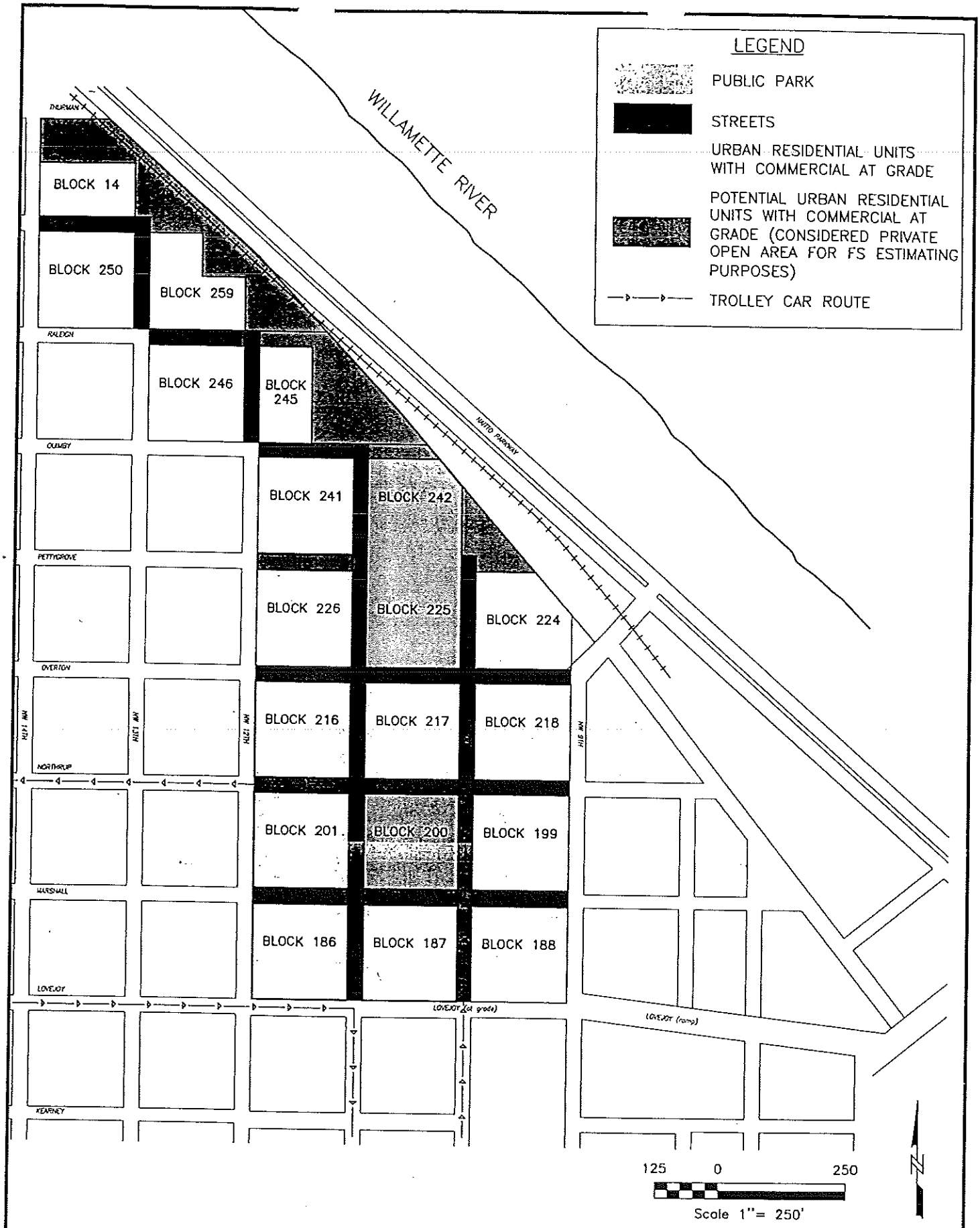
3-3448-830

CURRENT DATE	3/23/99	CADD FILE	4016S015

SITE LAYOUT
SEPTEMBER 1998
HOYT STREET PROPERTY
PORTLAND, OREGON

FIGURE 2-2


LEGEND
MONITORING WELL
23.10 GROUNDWATER ELEVATION IN FEET MSL
COMBINED STORM AND SANITARY SEWER
ABANDONED SEWER
STEAM LINE
SITE BOUNDARY
INFERRED/INTERPRETTED POTENTIOMETRIC SURFACE CONTOURS
TANNER CREEK SEWER OUTFALL
GROUNDWATER RECOVERY SYSTEM
WILLAMETTE RIVER
HOYT STREET RAILYARD
TURNTABLE
NW 10TH AVE
NW 11TH AVE
NW 12TH AVE
N.W. NAITO PKWY
N.W. FRONT AVE
N.W. PETTYGROVE ST
N.W. OVERTON ST
N.W. MARSHALL ST
N.W. JOHNSON ST
N32 RIVER
0 100 200 400
SCALE IN FEET
ThermoRetec
THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY
3-3440-030
DATE: 8/18/98
FILE: 3440s062
GROUNDWATER FLOW MAP
JANUARY 1996
HOYT STREET PROPERTY
PORTLAND, OREGON
FIGURE 2-3



ThermoRetec

Burlington Northern Santa Fe Railway

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY 3-4016-330				FUTURE SITE PLAN
CURRENT DATE	9/30/99	CADD FILE	4016S050	FIGURE 2-4

3 REMEDIAL INVESTIGATION AND RISK ASSESSMENT SUMMARY

This section summarizes the nature and extent of contamination at the site, contaminant fate and transport, and the baseline human health and ecological risk assessments conducted in accordance with OAR 340-122-0080 and OAR 340-122-0084.

The remedial investigation was completed in 1996, the groundwater beneficial use survey was completed in 1997, and the baseline human health and ecological risk assessment was completed in 1998. The focus of these investigations was to collect additional site information and assess risks to determine an appropriate final remedy for the site. Data generated during the environmental investigations are included in the report, *Remedial Investigation Report for the Burlington Northern Hoyt Street Site* (RETEC, October 1996). Additional data generated from soil sampling by Hoyt Street Properties after completion of the remedial investigation and baseline risk assessment were incorporated into the report, *Final Feasibility Study, Hoyt Street Railyard* (ThermoRetec, July 1999).

3.1 SOURCE AREAS AND CONTAMINANTS OF CONCERN

The sources of hazardous substances at the site include the fill materials, railroad operational areas, and the operational areas of other industrial activities at or adjacent to the site (i.e., General Petroleum fueling facility and the former manufactured gas plant). Diesel and Bunker C fuels were used at the railyard. A limited amount of lube oil was also used and stored at the site. As such, hydrocarbons are the main contaminants of concern (COCs). The hydrocarbons are quantified as total petroleum hydrocarbons (TPH) and polynuclear aromatic hydrocarbons (PAHs). Volatile organic hydrocarbon compounds (VOCs) and PAHs that are present in the southeastern corner of the site, are likely associated with an off-site source, the former manufactured gas plant. Lead is also a contaminant of concern, primarily in the former battery service area.

Environmental impacts vary across the site depending on past industrial activities and operational practices in specific areas. The hydrocarbon compounds are found in the following forms:

- Adsorbed to soil particles or as a residual film of hydrocarbons on soil grains
- As a free layer of product or light nonaqueous-phase liquid (LNAPL) floating on the water table (free LNAPL)
- As chemicals dissolved in the groundwater

The nature and extent of contamination at the site have been characterized by the collection and analysis of soil and groundwater samples from 203 test pits, 89 borings, and 42 monitoring wells.

3.2 NATURE AND EXTENT OF CONTAMINATION

3.2.1 Soil Impacts

The soil contamination is generally restricted to soil above the water table (vadose zone) or in the zone of groundwater table fluctuations (smear zone). The petroleum products used at the site are less dense than water and, therefore, are not found in soil below the low water table. An exception is the southeastern corner of the site. Hydrocarbons that are denser than water, and probably associated with the former manufactured gas plant facility, have migrated below the water table and impacted soils and groundwater at greater depths.

Soil impacts can be divided into seven generalized and somewhat overlapping soil impact areas as described below and shown on Figure 3-1. These areas were defined in the remedial investigation report (RETEC, October 1996) based on historic site use and the subsurface distribution of hydrocarbons and lead in soil. This map was developed as part of the remedial investigation before risks were assessed. The areas are described below.

3.2.1.1 Historic Fueling Area/1983 Derailment Area

This area was used for fueling from 1911 to the mid-1940s. In addition, 3,500 gallons of diesel fuel were spilled in the area in a 1983 derailment. Hydrocarbons are present in this area, primarily in the shallow subsurface soil and in the smear zone. Free LNAPL was not found during the remedial investigation, although in subsequent investigations conducted by HSP, free or residual LNAPL was observed in a test pit in this area. TPH concentrations range from 890 to 29,000 mg/kg as discussed in the remedial investigation report. The distribution of hydrocarbons in soil is shown on Figures 3-2, 3-3, and 3-4.

3.2.1.2 Second Fueling Area

The second fueling area was used from the mid-1940s until 1997. Hydrocarbon impacts are present throughout the vadose zone soils beneath much of the second fueling area and in the smear zone at the water table. Groundwater level varies, as it is influenced by the sewers. As a result, the elevation of the smear zone varies from 7 to 23 feet below ground surface (bgs). TPH concentrations in this area range from 220 to 44,000 mg/kg. The greatest TPH impacts and the free LNAPL pool are present beneath the portion of the fueling facility where locomotives were fueled. The distribution of LNAPL is shown on Figure 3-1. The extent of impacts diminishes north and south from the free LNAPL area.

3.2.1.3 Former Battery Service Area

The former battery servicing stations were located in the vicinity of NW Overton Street and NW 10th Avenue. The distribution of lead in this former battery service area is shown on Figure 3-5. Lead concentrations above 400 mg/kg are generally present at depths of 6 feet bgs or less, although lead concentrations above 400 mg/kg were found at depths up to 10 feet in one sample location and up to 15 feet in another sample location. Metal fragments are present in the deep soil samples indicating the presence of lead.

3.2.1.4 Heavy Oil Area

An area of hydrocarbon impacts exists west of the second fueling area and west of the Tanner Creek sewer (see Figure 3-1). Hydrocarbons in this area are present at concentrations greater than 1,000 mg/kg in soils, primarily located less than 5 feet bgs and locally extending to 10 feet bgs. This area is located in the vicinity of a 48-inch-diameter sewer, the steam tunnel, and the Tanner Creek sewer, as well as, some maintenance buildings in the early 1940s.

3.2.1.5 General Petroleum Area

This area is the former location of a petroleum fuel handling facility. Hydrocarbon impacts have been detected in the soils underlying the General Petroleum fueling area and near the location of their oil line. Hydrocarbon concentrations in this area range from less than 25 mg/kg to 6,000 mg/kg. Free LNAPL was observed in a test pit in this area during the HSP investigation.

3.2.1.6 Shallow Fill TPH Area

In the northwestern corner of the site, TPH has been detected in shallow soils at concentrations ranging from 61 to 2,400 mg/kg. At depth, hydrocarbons are generally below detection. One detection at depth (2,200 mg/kg) in this area was associated with an area of logs and wood debris. This is an area covered by broken asphalt and soil, and is currently used for parking.

3.2.1.7 MGP Impacted Area

A small manufactured gas plant (MGP) was located south of NW Lovejoy Street and east of NW 9th Avenue. The nature and distribution of hydrocarbons in site soils and groundwater in this vicinity are different than in other areas of the site. Hydrocarbons were detected in soils from depths of 15 feet to 29 feet bgs. Residual hydrocarbons in this area are more tar-like, and contain more VOCs and PAHs than hydrocarbons in other areas of the site.

3.2.2 Groundwater Impacts

Groundwater quality has been assessed periodically since 1987 and quarterly from 1995 to 1996 as part of the remedial investigation. Ongoing groundwater data collection is described in Section 3.4. Groundwater impacts at the site have primarily been quantified in terms of dissolved PAH concentrations. The distribution of dissolved-phase PAHs at the site is shown on Figure 3-6. Groundwater concentrations vary in different portions of the site as follows:

- **Second Fueling Facility and Area of LNAPL Pool (east of NW 10th Avenue, south of NW Pettygrove Street).** Dissolved PAH concentrations in groundwater in the area of the second fueling facility are low despite the proximity to the LNAPL pool. Total PAH concentrations in surrounding wells range from nondetect to 2.3 µg/L.

- **Northern Portion (north of NW Pettygrove Street).** The shallow TPH fill area, the General Petroleum area, and the former fueling facility are all located north of NW Pettygrove Street. Total dissolved PAH concentrations in these areas range from

below the detection limit to 18.6 µg/L. PAHs have been detected in wells during some quarterly monitoring events and not others.

- **Southwestern Portion (between NW 10th and NW 12th Avenues and between NW Northrup and NW Lovejoy Streets).** Total PAH concentrations in this area are generally below detection but range up to 2.5 µg/L. Soil and groundwater quality data from this area indicate minimal impacts from former site activities in these four blocks.

- **West-central Portion (between NW Pettygrove and NW Northrup and NW 10th and NW 12th Avenues).** Total PAH concentrations above 10 µg/L have been detected in this area. Detections in well H-7, of up to 11.9 µg/L, are thought to be associated with hydrocarbons in the former battery service area and/or steam tunnel. Detections in well HS-6, of up to 26.1 µg/L, may be associated with the heavy oil area.

- **South of NW Lovejoy Street.** South of NW Lovejoy Street and just west of NW 9th Avenue, dissolved-phase PAH concentrations exceed 10 µg/L. In well HS-10, concentrations were found at 12.2 µg/L. These detections correlate with impacted soils from the former manufactured gas plant and the presence of benzene in groundwater. The benzene, along with higher concentrations of other volatile organic compounds and PAHs dissolved in groundwater in the southeastern corner of the site, are likely associated with the former manufactured gas plant.

- Sewers. The deep sewers influence groundwater flow and hydrocarbon migration at the site. As such, they influence the hydrocarbon distribution in soils and groundwater. Deeper sewers act as divides to groundwater flow and provide a potential pathway for migration of dissolved-phase PAHs and LNAPL. Most of the hydrocarbon impacts in the soils in the smear zone (i.e., location of water table fluctuations) and groundwater occur within distinct areas surrounded by deeper sewers.

3.2.3 LNAPL Distribution

LNAPL is present beneath the second fueling area at the former Hoyt Street Railyard (Figure 3-7). In the main LNAPL pool, the product resembles weathered No. 2 diesel fuel and serves as a source of dissolved-phase hydrocarbons to groundwater. LNAPL beneath the second fueling area has migrated into the permeable structural bedding material beneath the Tanner Creek sewer and may be one source of hydrocarbon sheens observed on the Willamette River near the sewer outfall. Currently, the majority of this LNAPL is being contained and removed by the LNAPL recovery system (see Section 3.4.1). Some residual LNAPL remains downgradient of the influence of the LNAPL recovery system.

A different type of LNAPL is present in monitoring well MW-2 immediately south of the second fueling area (Figure 3-7). The LNAPL in this well is more viscous and resembles Bunker C fuel.

3.3 CONTAMINANT FATE AND TRANSPORT

The distribution of contaminants of concern in the soil can be subdivided into four general types of occurrences: (1) residual hydrocarbons (TPH and PAHs) and lead in surface and near-surface soils, (2) residual and free-phase hydrocarbon (LNAPL) in the smear zone, (3) residual hydrocarbons in soil below the water table, and (4) dissolved-phase hydrocarbons in groundwater.

Hydrocarbons are found in surface or near-surface soils beneath much of the formerly active portions of the site. Lead is present in near-surface soils in the former battery service area. Most of this affected soil is thought to be related to historic operations. Some may be associated with the filling of portions of the site with soil containing hydrocarbons. In portions of the site, small amounts of clean fill have been placed over some of the former surface soils that contain hydrocarbons.

The depth of penetration of the hydrocarbons into the unsaturated zone depends on the amount released, the rate of release, and the permeability of the soils. Lead is limited to near-surface soils and isolated locations within the fill. For organic compounds, where fuel releases were of sufficient volume, hydrocarbons as LNAPL have migrated downward through more permeable layers in the unsaturated zone, accumulating on the water table. Subsurface releases (i.e., from underground storage tanks) also caused hydrocarbons to migrate downward through more permeable layers and accumulate on the water table. With the variable grain size of the fill at the site, perched pockets of coarser grained, hydrocarbon-impacted soils are likely, as is lateral migration of hydrocarbons during downward migration to the water table. The result is a complex vertical and lateral distribution of hydrocarbons in the soils of the unsaturated zone.

Hydrocarbons as LNAPL that accumulated on the water table flowed in the hydraulically downgradient direction of the water table. The vertical location of hydrocarbons fluctuated with seasonal variations in the water table elevation. This has resulted in a zone where hydrocarbons have been smeared across the soils in the vicinity of the water table (the smear zone). Grain size variations in the fill material has affected the flow of hydrocarbons; migration along the water table was greatest where soils in the vicinity of the water table were more granular and permeable, and migration was less where soils were finer grained. Any LNAPL migrating along the water table followed preferential, coarse-grained flow paths and may have become trapped where the soil type changes.

The third type of hydrocarbon occurrence, present in soils below the water table, is primarily found in the vicinity of the former manufactured gas plant. Staining and residual product have been found at depths up to 17 feet below the water table. Manufactured gas plant residuals are typically more dense than water and tend to migrate below the water table, through more permeable soil horizons. The heterogeneous nature of the fill can influence and complicate the final distribution of the hydrocarbons below the water table. Continuous silty beds will likely impede the downward migration of even these denser hydrocarbons.

Finally, dissolved-phase hydrocarbons are present in groundwater beneath the site. The dissolved-phase hydrocarbons migrate in the direction of groundwater flow. However, migration of the dissolved-phase hydrocarbons is slower than that of groundwater due to physical, chemical, and biological influences (e.g., sorption, retardation and degradation). Migration is controlled by the direction of groundwater flow, which, at the site, is strongly influenced by preferential migration pathways, primarily sewers. Sewers can act as groundwater divides and provide a potential pathway for the lateral migration of dissolved-phase hydrocarbons.

3.4 INTERIM REMOVAL MEASURES

3.4.1 LNAPL Recovery

LNAPL has been recovered from the subsurface at the site since 1975. Since 1995, LNAPL recovery operations have been conducted as an interim removal measure (IRM) under the DEQ Consent Order. Groundwater quality data and water levels are collected as part of LNAPL recovery efforts.

LNAPL recovery operations were initiated by BNSF when four 8-inch-diameter oil recovery wells (WP-1 through WP-4) were installed along NW 9th Avenue in 1975. These wells were pumped regularly until 1980, when one of the recovery wells (WP-2) was enlarged to 24 inches in diameter to accommodate a two-pump recovery system. The LNAPL recovery system operated fairly continuously, at least through 1983, and then periodically thereafter. Recovery wells WP-3 and WP-4 were abandoned sometime prior to 1992.

In 1992, two new recovery wells, RW-1 and RW-2, were installed to expand the recovery system along NW 9th Avenue (RETEC, June 1992). These wells operated in 1993; the recovered LNAPL was recycled, and extracted groundwater was combined with the facility wastewater and discharged under the NPDES permit to the Willamette River via the Tanner Creek sewer. DEQ had required that this direct discharge of groundwater be eliminated or that a new permit be obtained. Because of the delay inherent in obtaining a new permit, the automatic recovery pumps were taken off-line in 1993 and operated in a manual mode to reduce the amount of extracted groundwater. Both the recovered LNAPL and extracted groundwater were properly disposed off-site.

Manual operation of the LNAPL recovery system was performed monthly between February 1994 and April 1995. During that period, the recovery system consisted of wells RW-1, RW-2, WP-1, and WP-2 (Figure 3-7). Extracted groundwater and LNAPL were pumped to a 500-gallon aboveground storage tank for temporary storage before disposal.

In June 1995, the LNAPL recovery system was returned to continuous operation with the installation of a groundwater treatment system and issuance of a new NPDES permit for the discharge of treated groundwater to the Tanner Creek sewer. The system is currently operated as an interim removal measure under the Order on Consent. The primary goals and objectives of the LNAPL recovery system, as an interim removal measure, are to:

- Depress the groundwater table such that LNAPL flowing towards the sewer can be intercepted and recovered;
- Recover LNAPL, thereby minimizing seepage into sewer lines and reducing the volume that will act as a long-term source to groundwater;
- Separate and recycle the recovered LNAPL; and
- Treat the extracted groundwater to meet the NPDES permit criteria.

In 1996, two additional recovery wells, RW-3 and RW-4, were added to improve recovery and capture based on the results of the remedial investigation. The current system consists of six recovery wells with total fluids pumps (RW-1, RW-2, RW-3, RW-4, WP-1, and WP-2), tanks for groundwater and LNAPL separation, an oil/water separator, and two carbon adsorption treatment tanks for final groundwater treatment. Treated groundwater is discharged in accordance with the NPDES permit to the Willamette River via the Tanner Creek sewer.

An operations and maintenance (O&M) manual for the LNAPL recovery system was submitted to DEQ in January 1996 (*Product Recovery System for the Hoyt Streeet Property Operations and Maintenance Manual*, RETEC, January 1996) and amended in July 1997 (*Operations and Maintenance Manual for the Product Recovery System at the Hoyt Street Property, Addendum 1*, RETEC, July 1997). The recovery wells and nearby monitoring wells are monitored monthly for LNAPL depths and thickness, and depth to groundwater. The treatment system is routinely monitored and inspected in accordance with the requirements of the NPDES permit and with the O&M manual and addendum. Status reports have been submitted annually to DEQ. A total volume of 6,300 gallons of LNAPL have been recovered from the subsurface since record keeping began in 1992.

The recoverable LNAPL volume was estimated at the time the system was expanded. LNAPL volume estimations are based on many approximations and assumptions of subsurface conditions; this value should be understood to be an estimate. The recoverable volume of LNAPL floating on the groundwater in 1995 was estimated at 10,200 gallons as detailed in the O&M manual. Over 2,600 gallons, or slightly over a quarter of the total estimated volume of LNAPL at the site have been recovered since 1995.

3.4.2 NW 9th Avenue and NW Kearney Street IRM

A DEQ-approved soil removal was completed on the block between NW 9th and NW 10th Avenues and NW Johnson and NW Kearney Streets to accommodate development of the block. Approximately 180 cubic yards of contaminated soils were removed from the northeastern corner of the block, where lead concentrations exceeded 400 mg/kg. The excavation was completed in 1996 and confirmation samples were collected to demonstrate that concentrations in the remaining soils were below the 400 mg/kg action level for lead (RETEC, July 1996).

3.4.3 Hot Spot Removal and Institutional Controls

Interim removal actions were undertaken between the time of the Staff Report and this Record of Decision, including the soil hot spot removal and implementation of deed restrictions, and are described in Section 9.0.

3.5 LAND USE AND BENEFICIAL WATER USE DETERMINATION

Determination of the beneficial uses of land, groundwater, and surface water at the site was necessary for completion of the baseline human health and ecological risk assessment. Land use surrounding the 26-acre site is (and is expected to continue as) commercial, light industrial, and urban residential. In the future, parks will be built in the area. The site is currently inactive, although, over the next 10 to 20 years, plans outline an extensive redevelopment of the site as part of a larger project known as the River District Development Plan. The planned redevelopment will significantly change site use by converting the industrial railyard site into a mixture of commercial, urban residential, and urban recreational uses.

The groundwater beneficial water assessment evaluated historic, current, and reasonably likely future groundwater uses at and surrounding the site. The assessment found no historic or current groundwater uses for drinking water or industrial process water, either in the fill aquifer or the underlying fine-grained terrace deposits. In addition, modeling completed as part of the groundwater beneficial use assessment demonstrated that constituents present in the fill soils beneath the railyard attenuate to protective levels before reaching the underlying Troutdale Gravel Aquifer. The assessment determined that there is no reasonably likely future beneficial uses of the shallow groundwater or deeper groundwater in the underlying sand and gravel aquifer for drinking water or industrial purposes in the vicinity of the former Hoyt Street Railyard. Reasons the deeper aquifer cannot be developed in this area include low yield and high iron content. Therefore, the only current and reasonably likely future beneficial use of groundwater at the Hoyt Street Railyard is as a discharge to the Willamette River.

The site is located approximately 450 feet southwest of the Willamette River. The beneficial uses of the Willamette River, as defined by OAR 340-041-0442, are support of freshwater aquatic life; potable, industrial, or irrigation supply; livestock watering; commercial navigation and transportation; hydro-power; and recreational activities (to the extent that they do not conflict with commercial activities in Portland Harbor). Current and reasonably likely future beneficial uses of the Willamette River in the vicinity of the Hoyt Street Railyard site include support of aquatic life, commercial navigation and transportation, industrial supply, and recreation. Although the river is classified for potable use, that classification carries the footnote: "with adequate pretreatment and natural quality that meets drinking water standards" (OAR 340-041-0442, Table 6). Since the Willamette River is a commercial waterway near and downgradient of the site, pretreatment would be needed prior to potable use. For similar reasons, it is assumed that pretreatment would be necessary for irrigation supply and livestock watering.

3.6 BASELINE RISK ASSESSMENT

The baseline risk assessment for the Hoyt Street Railyard site evaluated human health and ecological risks. Risks for contaminants of concern were evaluated based on current and reasonably anticipated future land uses and on current and reasonably likely future surface water use scenarios.

Acceptable risk levels for human and ecological receptors are defined in OAR 340-122-0115. For human exposures to individual carcinogens, the acceptable risk level means a lifetime excess cancer risk of less than or equal to one per one million (1×10^{-6} or less) for an individual. For human exposure to multiple carcinogens, the acceptable risk level means a cumulative lifetime excess cancer risk for multiple carcinogens and multiple exposure pathways of less than or equal to one per one hundred thousand (1×10^{-5} or less). For human exposure to noncarcinogens, the acceptable risk level is a hazard index less than or equal to one for an individual.

3.6.1 Human Health Risk Assessment

The human health risk assessment evaluated risks due to exposure to contaminants of concern from direct contact (i.e., dermal contact and incidental ingestion) and inhalation as the principal exposure pathways for five receptors: urban resident child, urban resident adult, site workers, construction workers, and future maintenance workers. In addition, exposures to surface water containing site contaminants were also evaluated for a recreational river user. Both carcinogenic (i.e., cancer causing) and non-carcinogenic (toxic) effects of contaminants of concern were evaluated. Contaminants of concern included metals, volatile organic compounds, petroleum hydrocarbons, and polynuclear aromatic hydrocarbons (PAHs).

The urban resident child and adult receptors represent future residents living on the site after redevelopment of the property. Risks to these receptors were evaluated for exposures to contaminants in soils to a depth of 5 feet below ground surface (bgs).

The site worker receptor represented railyard workers during the active operations of the railyard. However, since railyard operations ceased in 1997, this receptor in no longer applicable.

The construction worker receptor represents workers involved in the construction activities associated with redevelopment, such as site preparation work, and excavating and handling contaminated soils for basements and utility installations. Risks to this receptor were evaluated assuming exposures to contaminated soils to depths of 15 feet bgs.

The future maintenance worker receptor represents workers involved in future maintenance work on the site after completion of the site redevelopment, such as utility repair. Risks to this receptor were also evaluated assuming exposures to contaminated soils to depths of 15 feet bgs. The baseline risk assessment referred to this receptor as the trench/excavation worker. For this ROD, this receptor is referred to as the future maintenance worker.

The recreational river user represented receptors involved in recreation activities (e.g., jet skiing) on the Willamette River who could potentially be exposed to site contaminants as a result of groundwater discharges to the river.

Table 3-1 presents a summary of risks to receptors from exposure to individual contaminants at the site. Carcinogenic compounds in soils at the site, primarily PAH compounds, pose potentially unacceptable risk (i.e., $> 1 \times 10^{-6}$) for future residents and construction workers exposed to individual contaminants in site soils. Exposure to benzo(a)pyrene, a carcinogenic PAH compound, presented a greater risk to these receptors than other compounds.

For the urban resident child receptor, the combined cancer risk from exposure to multiple carcinogens was estimated at 1.2×10^{-4}, which exceeds the acceptable risk level for exposure to multiple carcinogens of 1×10^{-5}. For the urban resident adult and construction worker receptors, the combined cancer risks also exceeded the acceptable risk level of 1×10^{-5} for exposure to multiple carcinogens.

The results of the baseline risk assessment indicated that there were no unacceptable risks to future maintenance workers and recreational river users from exposures to either individual or multiple carcinogens in contaminated media at the site. For the future maintenance worker, the total risk due to exposures (i.e., ingestion, dermal, inhalation) to benzo(a)pyrene was estimated at 4×10^{-7}, and the cumulative risk due to exposure to multiple carcinogens and multiple pathways was 7×10^{-7}; both are within the acceptable risk levels as defined in OAR 340-122-0115.

For the future residents, construction workers, and future maintenance workers, the potential risks associated with exposure to noncarcinogenic compounds in the soil were acceptable, being less than a hazard index of 1.

3.6.2 Ecological Risk Assessment

The current and reasonably likely future beneficial use of site groundwater was determined to be discharge to the Willamette River. The ecological risk assessment evaluated risks to aquatic receptors from site groundwater discharging to surface water and sediments in the Willamette River. The risk assessment showed that there were no unacceptable risks to ecological receptors in the surface water and sediments from groundwater as a nonpoint source. However, the Tanner Creek Sewer may act as a preferential pathway for LNAPL or affected groundwater, creating the potential for unacceptable risks to ecological receptors from exposure to contaminants in sediments.

The ecological risk assessment also identified a potential exposure pathway associated with groundwater recharging a hypothetical water feature, such as a constructed wetlands. Current plans for the site do not include a large water feature, such as a constructed wetlands, on-site. Water features at the site will be limited to fountains or lined channels with a flowrate of 2 to 10 cubic feet per second (cfs) as discussed in the feasibility study report (ThermoRetec, July 1999). Therefore, this exposure pathway was considered unlikely and not evaluated further.

3.7 HOT SPOT DETERMINATION

3.7.1 Groundwater

The hot spot determination for groundwater included the evaluation of current and potential future adverse impacts on beneficial uses of water from hazardous substances at the site. The beneficial use of site groundwater was determined to be discharge to the Willamette River. Based on the results of the baseline risk assessment and groundwater beneficial use assessment, groundwater with dissolved-phase contaminants is not considered a hot spot at the Hoyt Street Railyard site. Groundwater concentrations at the shoreline of the Willamette River are not expected to exceed relevant standards or acceptable risk levels. In addition, river sediments were not adversely impacted by groundwater.

Available data indicate that the dissolved-phase groundwater plume is not expanding. Therefore, there is a low potential for future adverse impacts to surface water and sediments from migration of dissolved-phase contaminants in groundwater. There is also a low risk that these conditions would change in the future under a no action scenario as the plume of dissolved-phase contamination is not expanding.

3.7.2 Soils

The hot spot determination for soils at the site included an evaluation of "highly concentrated", "highly mobile", and "not reliably containable", consistent with OAR 340-122-0115. Highly concentrated hot spot levels are defined as risk-based concentrations corresponding to one hundred times the acceptable risk level for human exposure to individual carcinogens, which is equal to a 1×10^{-4} risk level. For the Hoyt Street Railyard site, hot spot levels were defined using the most conservative receptor, the urban residential child exposure scenario, and determining contaminant concentrations corresponding to the 1×10^{-4} risk level. The analysis showed that a highly concentrated soil hot spot exists in the vicinity of sample TPG-3 due to a benzo(a)pyrene detection exceeding the 1×10^{-4} risk concentration of 4 mg/kg (Figure 3-8). The estimated volume of this hot spot is 6,700 cubic yards, assuming areal limits shown in Figure 3-8 and a maximum depth of 5 feet bgs.

The analysis for "highly mobile" and "not reliably containable" soil hot spots showed that there were no other soil hot spots at the site.

3.7.3 LNAPL

LNAPL present beneath portions of the site affects the concentration of hydrocarbons in both soil and groundwater. The LNAPL serves as a source of dissolved-phase hydrocarbons to groundwater. The hot spot determination found that free-phase LNAPL is a highly mobile and highly concentrated hot spot for soil and groundwater at the Hoyt Street Railyard site. Therefore, LNAPL is a hot spot at the site. The present volume of recoverable LNAPL was estimated at 7,600 gallons. The majority of LNAPL at the site is currently being contained and recovered by the LNAPL recovery system.

TABLE 3-1

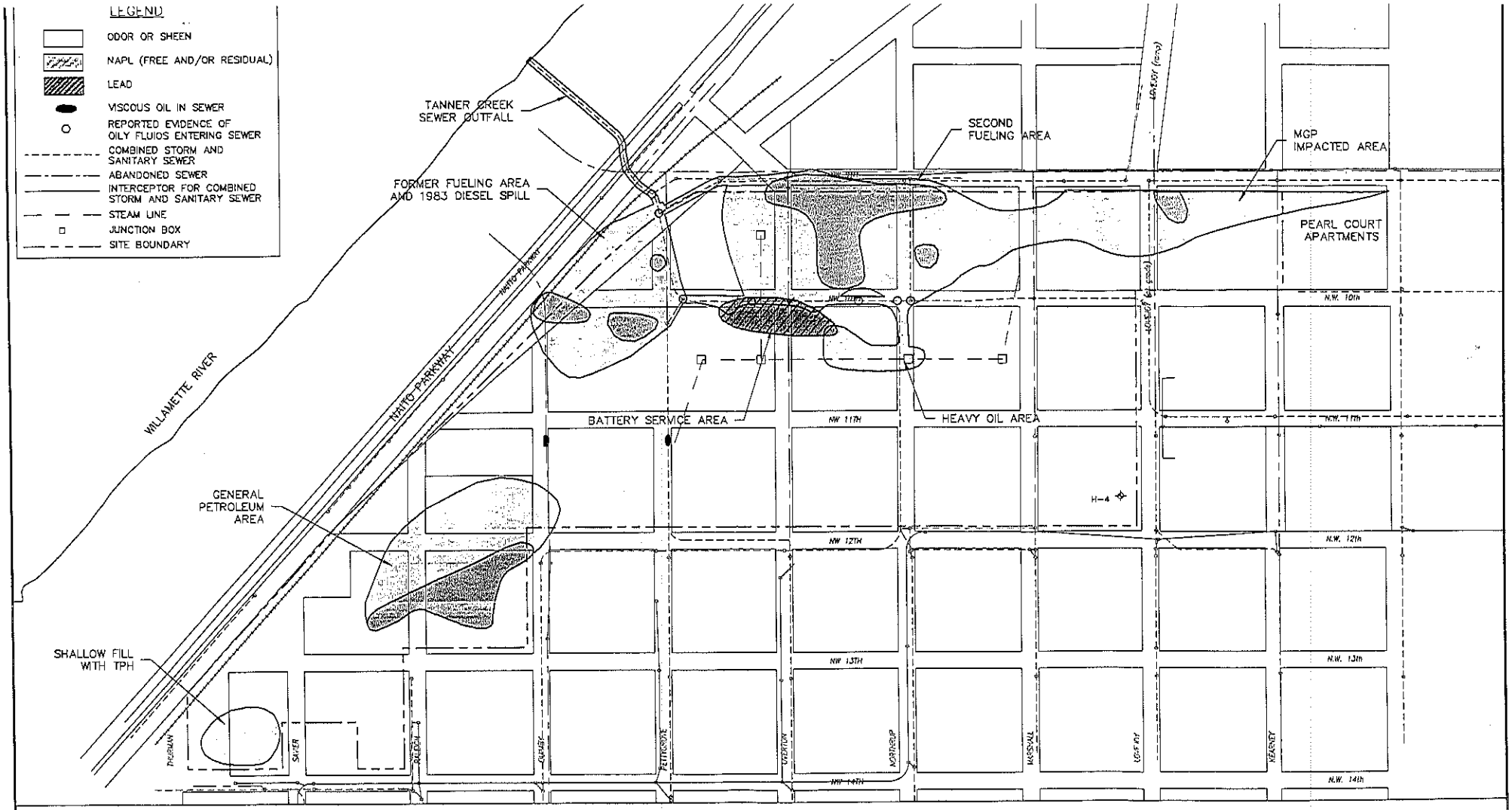
RISK ASSESSMENT SUMMARY

Individual Contaminants Exceeding the 1 X 10^{-6} Cancer Risk Level

CONTAMINANT OF CONCERN	Construction Worker	Future Maintenance Worker	Future Urban Resident Adult	Future Urban Resident Child	Recreational River User
Benzo(a)pyrene	8.0×10^{-6}	NA	2×10^{-5}	7×10^{-5}	NA
Arsenic	NA	NA	2×10^{-6}	2×10^{-5}	NA
Benzo(a)anthracene	NA	NA	2×10^{-6}	9×10^{-6}	NA
Benzo(b)fluoranthene	NA	NA	1×10^{-6}	5×10^{-6}	NA
Dibenzo(ah)anthracene	NA	NA	2×10^{-6}	1×10^{-5}	NA
Indeno (1,2,3-cd)pyrene	NA	NA	1×10^{-6}	4×10^{-6}	NA
CUMULATIVE RISK	1.1×10^{-5}	7.0×10^{-7}	2.8×10^{-5}	1.2×10^{-4}	5.7×10^{-7}

Except for the recreational river user, the risk levels shown for each individual contaminant represent a cumulative risk from all soil exposure pathways (i.e., dermal, ingestion, inhalation) using reasonable maximum exposure (RME) assumptions. For the recreational river user, the risk levels for each individual contaminant represent a cumulative risk from surface water exposure pathways (i.e., dermal, ingestion) using RME assumptions.

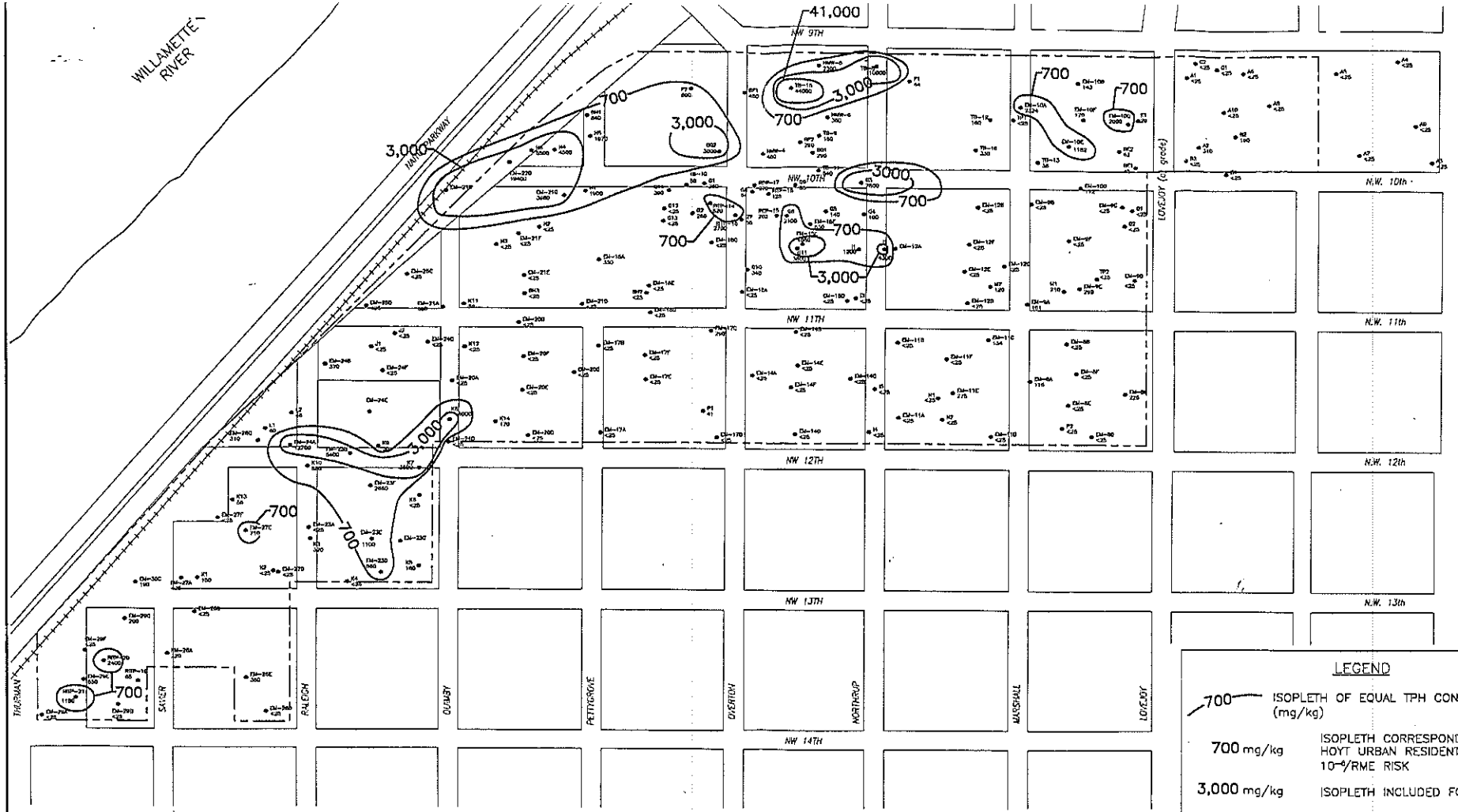
NA = Risks do not exceed the 1 x 10^{-6} cancer risk level; therefore, there is no unacceptable risk for this contaminant for the receptor indicated.



SOURCES: CITY OF PORTLAND, DEPARTMENT OF PUBLIC WORKS

ThermoRetec

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY 3-4016-330	GENERALIZED AREAS OF SOIL IMPACTS HOYT STREET PROPERTY PORTLAND, OREGON
CURRENT DATE 9/30/99 | CADD FILE 4016S051	FIGURE 3-1



NOTES:

1) WHERE TPH WAS REPORTED IN BOTH DIESEL AND LUBE OIL RANGE, THESE VALUES WERE SUMMED FOR TPH VALUE.
2) BGS = BELOW GROUND LEVEL
3) RME = REASONABLE MAXIMUM EXPOSURE

LEGEND

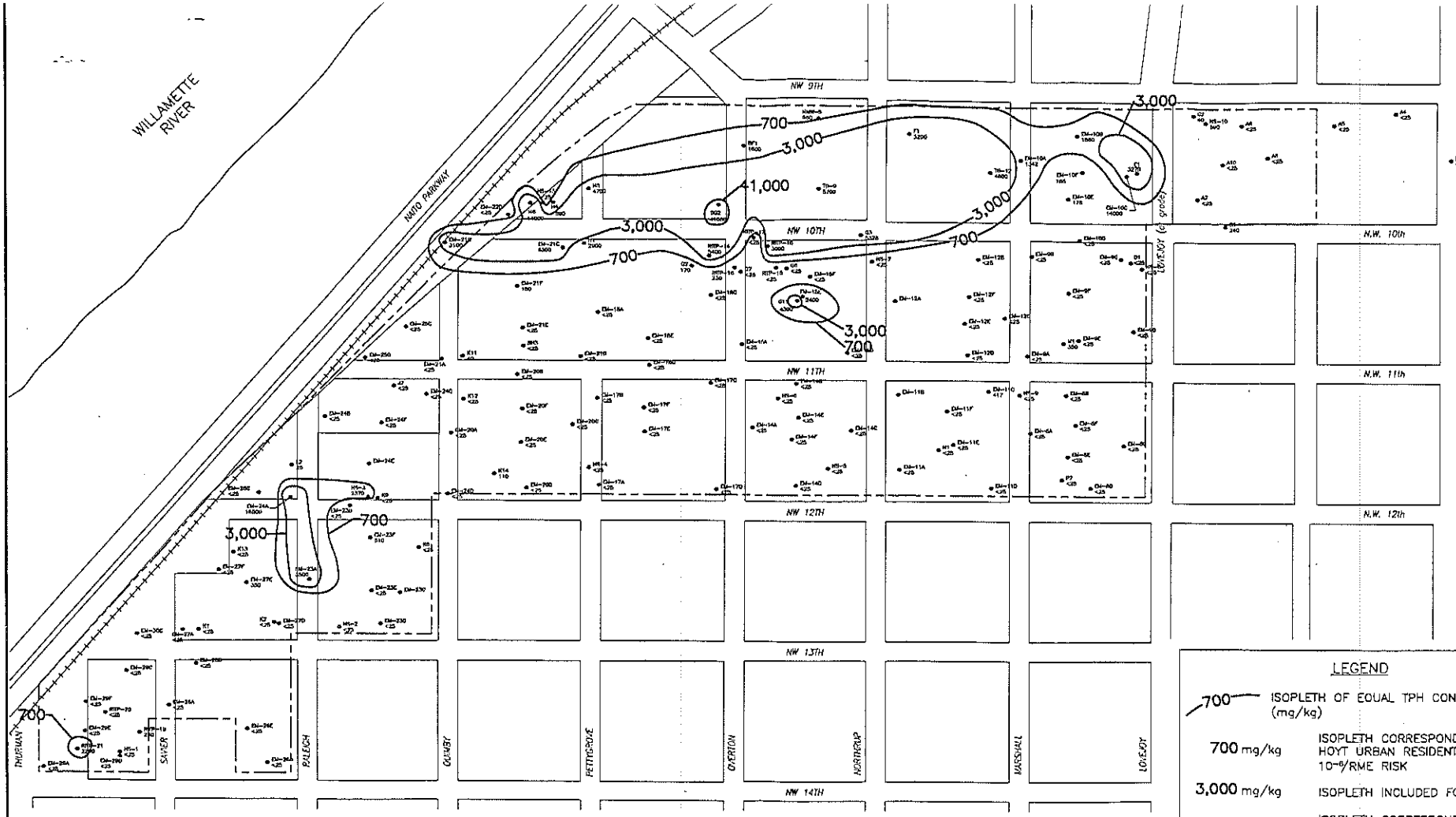
700	ISOPLETH OF EQUAL TPH CONCENTRATION (mg/kg)
700 mg/kg	ISOPLETH CORRESPONDING TO HOYT URBAN RESIDENT CHILD 10^{-6}/RME RISK
3,000 mg/kg	ISOPLETH INCLUDED FOR REFERENCE
41,000 mg/kg	ISOPLETH CORRESPONDING TO HOYT CONSTRUCTION WORKER 10^{-6}/RME RISK
P1	SAMPLE NUMBER
●	SAMPLE LOCATION
41	TPH CONCENTRATION IN mg/kg

ThermoRetec

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY
3-3448-830

TPH CONCENTRATIONS IN SOIL 0 TO 5 FEET BGS (mg/kg) HOYT STREET

CURRENT DATE 1/14/99 | CADD FILE 40165006 | FIGURE 3-2



NOTES:

1) WHERE TPH WAS REPORTED IN BOTH DIESEL AND LUBE OIL RANGE, THESE VALUES WERE SUMMED FOR TPH VALUE.
2) BGS = BELOW GROUND LEVEL
3) RME = REASONABLE MAXIMUM EXPOSURE

LEGEND

700	ISOPLETH OF EQUAL TPH CONCENTRATION (mg/kg)
700 mg/kg	ISOPLETH CORRESPONDING TO HOYT URBAN RESIDENT CHILD 10^{-5}/RME RISK
3,000 mg/kg	ISOPLETH INCLUDED FOR REFERENCE
41,000 mg/kg	ISOPLETH CORRESPONDING TO HOYT CONSTRUCTION WORKER 10^{-5}/RME RISK
P1	SAMPLE NUMBER
●	SAMPLE LOCATION
41	TPH CONCENTRATION IN mg/kg

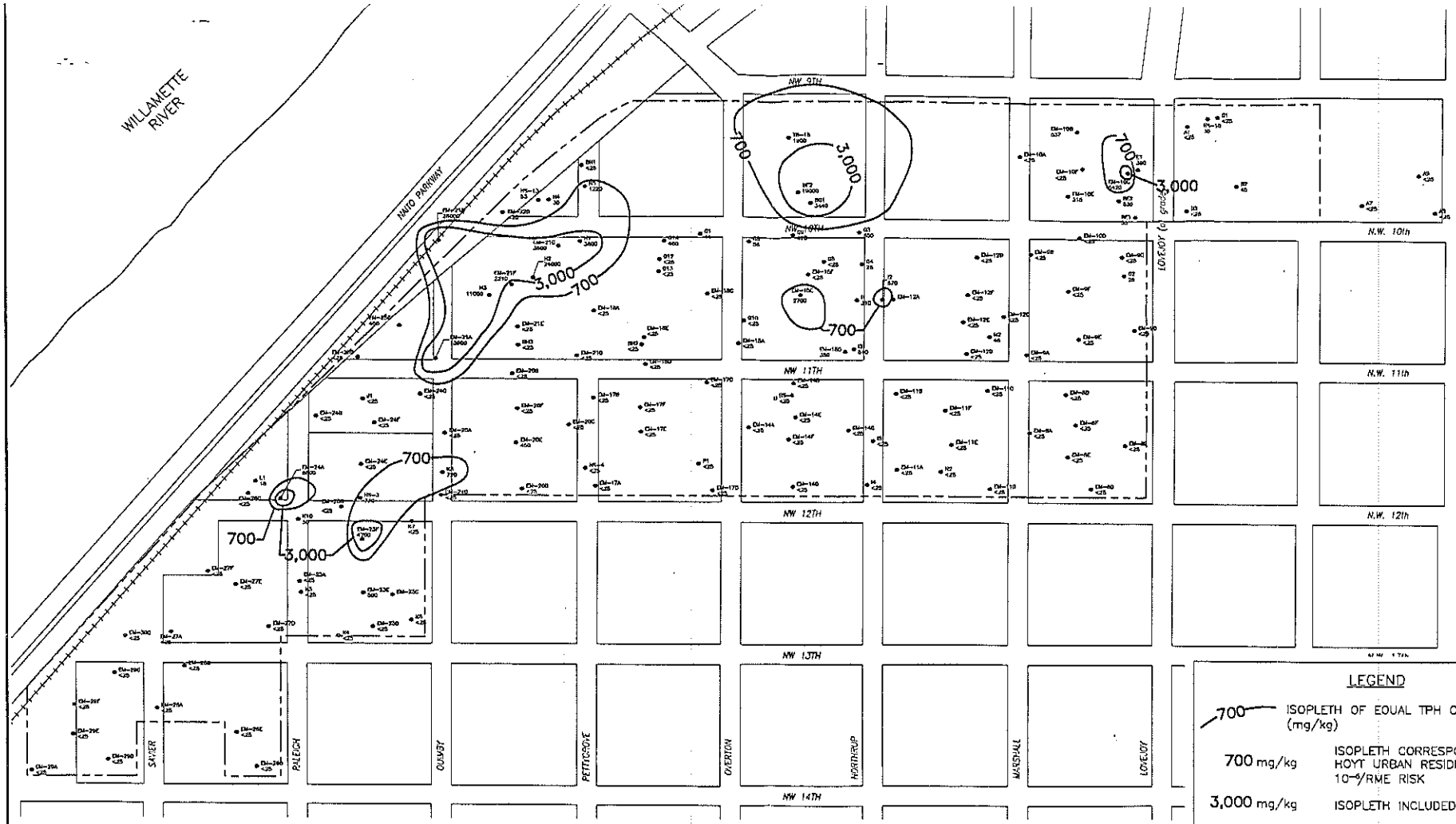
ThermoRetec

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY
3-3448-830

CURRENT DATE 1/14/99 | CADD FILE 40163007

TPH CONCENTRATIONS IN SOIL 5 TO 10 FEET BGS (mg/kg) HOYT STREET

FIGURE 3-3



NOTES:

1) WHERE TPH WAS REPORTED IN BOTH DIESEL AND LUBE OIL RANGE, THESE VALUES WERE SUMMED FOR TPH VALUE.
2) BGS = BELOW GROUND LEVEL
3) RME = REASONABLE MAXIMUM EXPOSURE

LEGEND

700	ISOPLETH OF EQUAL TPH CONCENTRATION (mg/kg)
700 mg/kg	ISOPLETH CORRESPONDING TO HOYT URBAN RESIDENT CHILD 10^{-6}/RME RISK
3,000 mg/kg	ISOPLETH INCLUDED FOR REFERENCE
41,000 mg/kg	ISOPLETH CORRESPONDING TO HOYT CONSTRUCTION WORKER 10^{-6}/RME RISK
P1	SAMPLE NUMBER
●	SAMPLE LOCATION
41	TPH CONCENTRATION IN mg/kg

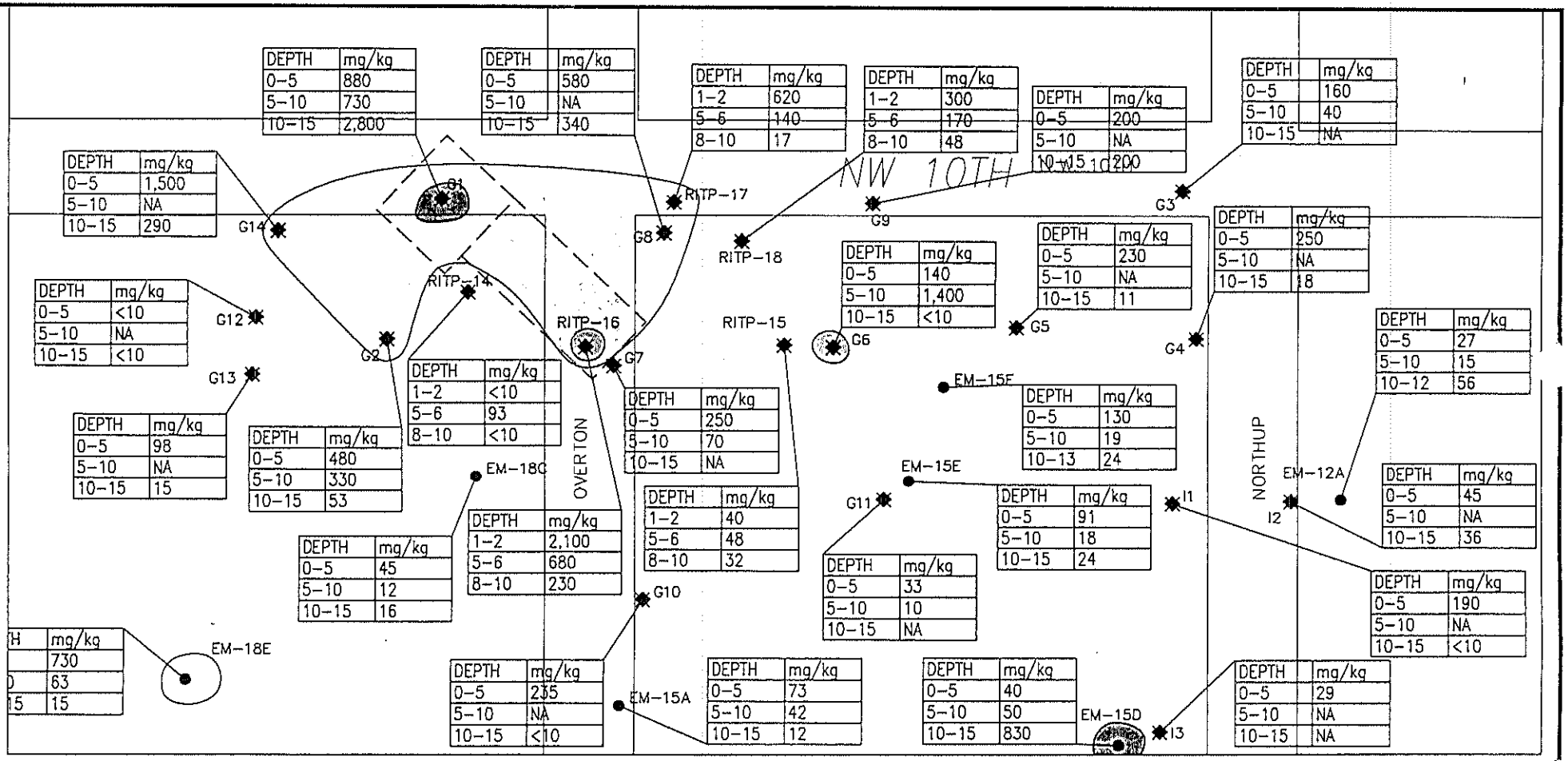
ThermoRetec

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY
3-3448-030

CURRENT DATE: 1/14/99 | CADD FILE: 40165008

TPH CONCENTRATIONS IN SOIL 10 TO 15 FEET BGS (mg/kg) HOYT STREET

FIGURE 3-4



ThermoRetec

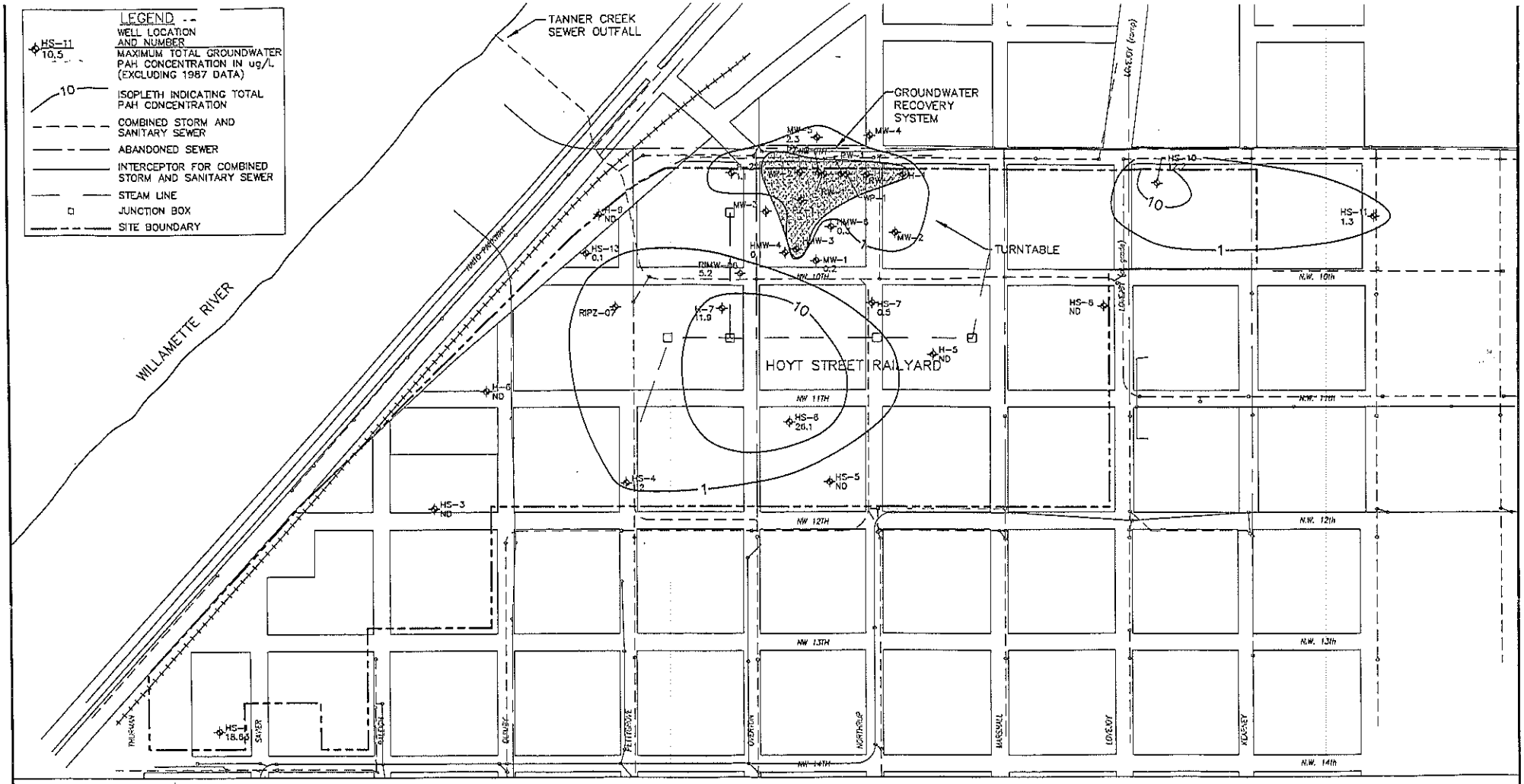
THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY

3-4016-330

CURRENT DATE 9/30/99 | CADD FILE 4016S052

LEAD DISTRIBUTION IN THE FORMER BATTERY SERVICE AREA HOYT STREET PROPERTY PORTLAND, OREGON

FIGURE 3-5

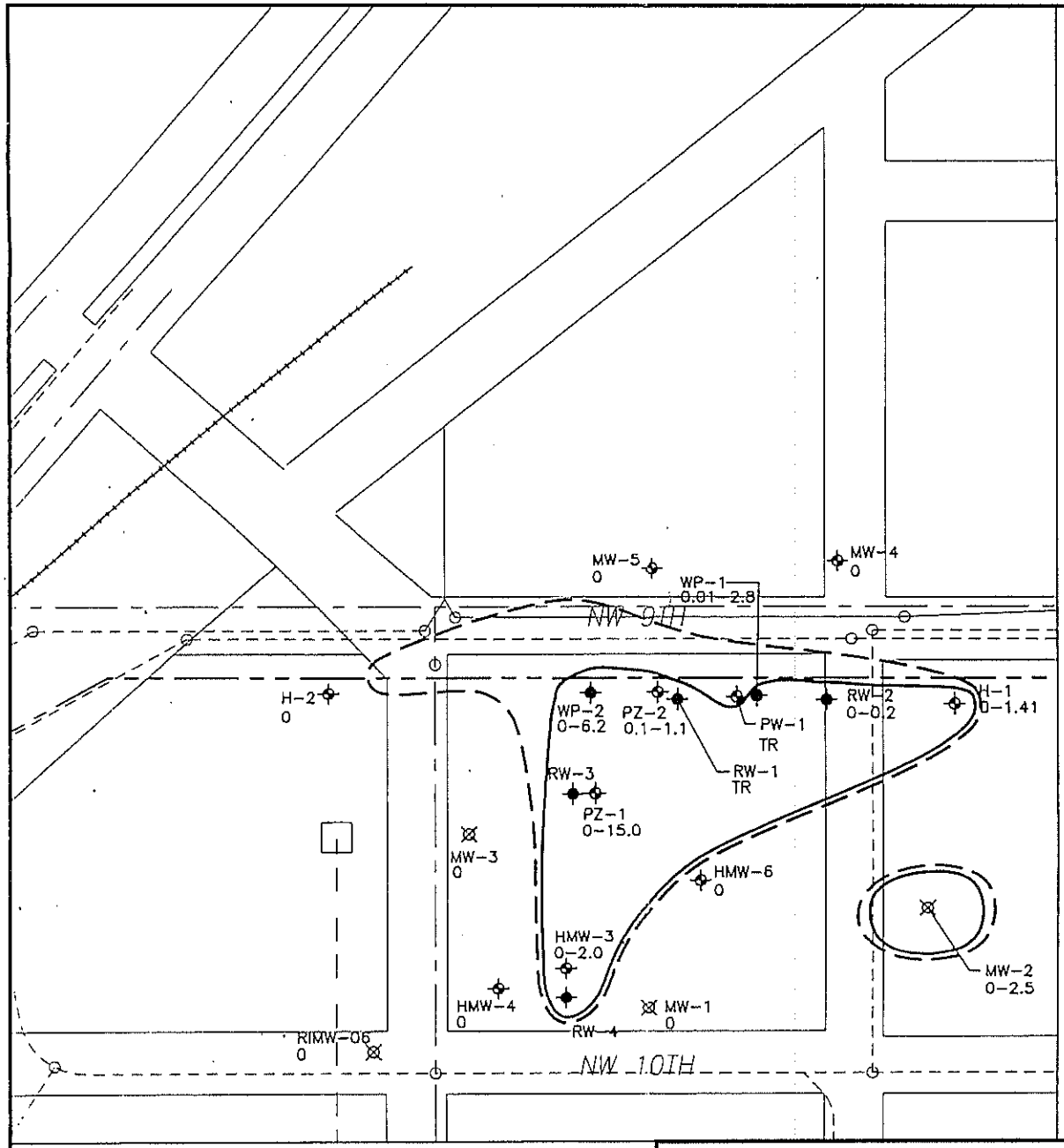


SOURCES: CITY OF PORTLAND, DEPARTMENT OF PUBLIC WORKS SEWER MAP (1980), AND BURLINGTON NORTHERN FACILITY MAP

NOTE: PLEASE REFER TO TABLE 5-9, FOR A SUMMARY OF ANALYTICAL DATA USED TO DEVELOP THIS FIGURE.

ThermoRetec

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY 3-3448-630			TOTAL GROUNDWATER PAH ISOPLETH MAP APRIL 15 & 16, 1996 HOYT STREET PROPERTY PORTLAND, OREGON
DATE: 9/30/99	DRWN: N.S.	FILE: 4c16e053	FIGURE 3-6



LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- ABANDONED WELL LOCATION
- MW-2 / 1.2-6.2 — WELL LOCATION / HISTORIC RANGE OF LNAPL THICKNESS (FEET) (EXCLUDING OUTLIERS)
- U — LNAPL LAYER REPORTED, THICKNESS UNKNOWN
- COMBINED STORM AND SANITARY SEWER
- STORM SEWER
- SITE BOUNDARY
- ESTIMATED EXTENT OF FREE HYDROCARBON POOL
- HISTORIC EXTENT OF FREE HYDROCARBON POOL

N

0 50 100 200

SCALE IN FEET

SOURCES: JOHN MATHES & ASSOCIATES (1989), CITY OF PORTLAND, DEPARTMENT OF PUBLIC WORKS SEWER MAP (1980), AND BURLINGTON NORTHERN FACILITY MAP

ThermoRetec

Burlington Northern Santa Fe Railway

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY

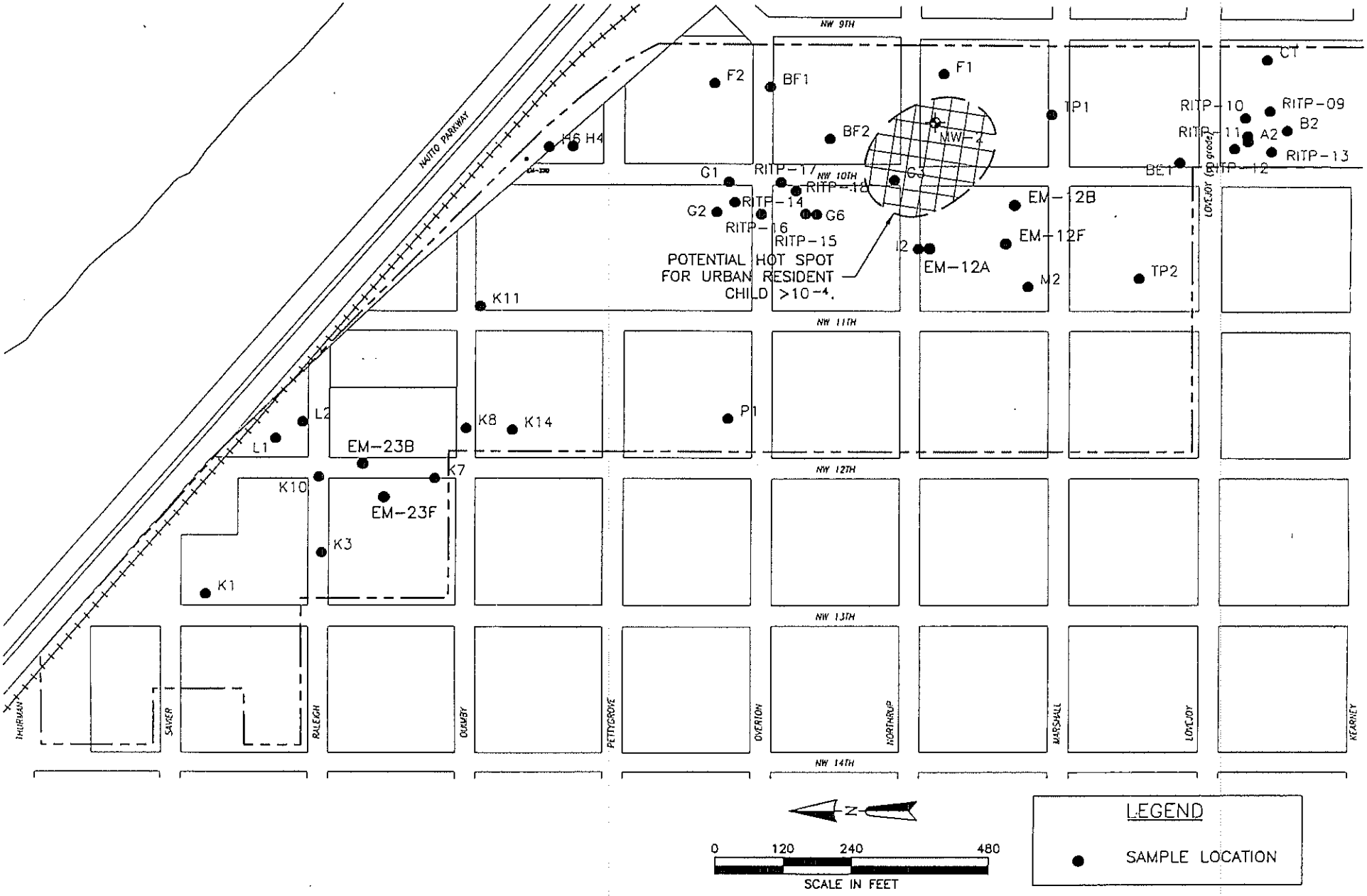
3-3448-830

CURRENT DATE	12/10/98	CADD FILE	3448s067

LNAPL IRM
RECOVERY AREA

HOYT STREET PROPERTY

FIGURE 3-7



ThermoRetec

BURLINGTON NORTHERN
SANTA FE RAILROAD
3-3448-330

CURRENT DATE	3/22/99	CADD FILE	4016a010

POTENTIAL SOIL HOT SPOT
URBAN RESIDENT CHILD

HOYT STREET

FIGURE 3-8

4 REMEDIAL ACTION OBJECTIVES AND CLEANUP LEVELS

4.1 REMEDIAL ACTION OBJECTIVES

Remedial action objectives (RAOs) are media-specific goals for protecting human health and the environment. RAOs have been developed for soils, groundwater, and LNAPL at the Hoyt Street Railyard site to address the standards established in OAR 340-122-0040. Specifically, the standards require that remedial actions achieve the numeric standards for protectiveness that correspond to acceptable risk levels (ARLs); address treatment of hot spots to the extent feasible; prevent or minimize future releases and migration of hazardous substances in the environment; and provide long-term care or management as necessary and appropriate.

The RAOs developed for soils and groundwater include the following:

- Prevent exposure to soil or groundwater posing any one or more of the following:
  - exceedence of the lead action levels,
  - hazard index of greater than 1 for noncarcinogens,
  - lifetime excess cancer risk greater than 1×10^{-6} for individual carcinogens,
  - combined excess cancer risk greater than 1×10^{-5} for multiple carcinogens at the upper bound exposure.

- Prevent migration of contaminants, which would result in unacceptable risk levels or a significant adverse effect on beneficial uses of water.

- To the extent feasible, remediate hot spots of contamination in soil or groundwater to non-hot spot levels or acceptable risk levels by reducing contaminant concentration, volume, or mobility.

RAOs developed specifically for the LNAPL include:

- Prevent migration of LNAPL, which would result in an unacceptable risk or a significant adverse effect on beneficial uses of water.

- To the extent feasible, remediate LNAPL hot spots to non-hot spot levels or acceptable risk levels by reducing the concentration, mobility, or volume.

A significant adverse effect on beneficial uses of water is defined in OAR 340-122-0115(50).

4.2 SOIL CLEANUP LEVELS AND HOT SPOT CONCENTRATIONS

Specific numerical risk-based cleanup levels or concentrations (RBCs) were developed for the contaminants of concern (COCs) in soils to satisfy the remedial action objectives described in Section 4.1. RBCs were developed for three potential receptors at the Hoyt Street Railyard site: the urban resident child, construction worker, and future maintenance worker. The urban resident child represents the receptor for surface soil (0 to 5 feet bgs), as it is the most

conservative of the exposure scenarios and drives the surface soil cleanup. The construction worker scenario (0 to 15 feet bgs) is intended to represent those workers involved in the initial site redevelopment work, such as soil excavations and handling for basements and utility installations. The future maintenance worker (0 to 15 feet bgs) represents those workers involved in future maintenance work on the property and rights-of-way after site development. Although the baseline risk assessment showed no unacceptable risks to the future maintenance worker due to exposures to TPH and PAH contaminants, RBCs were developed for these contaminants for this receptor for purposes of establishing soil management criteria (Table 5-1) and conceptual remedy design components (Table 5-2).

The RBCs for the urban resident child and construction worker were derived in the DEQ-approved baseline risk assessment report (RETEC, February 1998) using site-specific exposure factors and reasonable maximum exposure (RME) concentrations. The RBCs for the future maintenance worker were derived from exposure factors provided in the DEQ *Guidance for Conducting Deterministic Human Health Risk Assessments* (DEQ, December 1998) and RME concentrations. These RBCs were referred to as health-based action levels (HBALs) in the baseline risk assessment and feasibility study reports. The RBCs for each of the COCs for the three receptors are listed in Table 4-1. For the carcinogenic PAHs, the RBCs correspond to an excess cancer risk of 1×10^{-6} for individual carcinogens as the combined cancer risk from exposure to multiple carcinogenic COCs is less than 1×10^{-5}.

The RBCs for total petroleum hydrocarbons (TPH) were calculated in the baseline risk assessment report and correspond to an excess cancer risk of 1×10^{-6} for each of the respective receptors. The TPH RBCs were based on the assumption that the TPH at the site was diesel fuel.

The RBCs for lead are action levels, ranging from 400 mg/kg to 2,000 mg/kg, and were derived in the baseline risk assessment and feasibility study using EPA policy and guidance.

The hot spot concentrations for soils are provided in Table 4-1 and are based on concentrations corresponding to an excess cancer risk of 1×10^{-4} using the urban resident child exposure scenario.

4.3 REGULATORY REQUIREMENTS

The feasibility study identified several federal, state, and local laws, rules, and requirements that may be applicable to remedial actions at the Hoyt Street Railyard site. These are summarized below:

Oregon Hazardous Waste Management Act (ORS 466). This act and the implementing administrative regulations (OAR 340-100-0001 *et seq.*) govern the generation, transportation, treatment, storage, and disposal of hazardous wastes and may have applicability at the Hoyt Street site if remedial actions generate characteristic or listed hazardous wastes. This act incorporates requirements of the federal Resource Conservation and Recovery Act (RCRA) program.

Excavated soils at the site could potentially be classified as RCRA hazardous wastes if they exhibit the characteristic of toxicity as established by the Toxicity Characteristic Leaching Procedure (TCLP) test. The Feasibility Study estimated that approximately 1,100 cubic yards of lead-contaminated soils in the former battery service area could potentially exceed the TCLP criterion for lead of 5.0 mg/L. Soils exceeding the TCLP criterion for lead would be classified as D008 wastes and will be appropriately managed in accordance with all applicable state requirements of OAR 340, Divisions 100 through 120 and federal RCRA requirements of 40 CFR Parts 260, 261, 262, 263, 264, 265, and 268.

Oregon Solid Waste Management (ORS 459 and OAR 340-093 and 340-095). This statute and implementing rules govern the management of solid wastes, including the permitting of disposal sites, and are applicable to the off-site management of contaminated soils.

Oregon Water Quality Standards (ORS 468B and OAR 340-041). These standards protect aquatic life and public health, and are applicable to the Hoyt Street site as discharge to the Willamette River is the identified beneficial use of groundwater.

Oregon Water Pollution Control Act (ORS 468B). This act and the implementing administrative regulations (OAR 340-045) govern discharge of pollutants to surface waters. The act incorporates the federal Clean Water Act programs, including the NPDES permitting system. An NPDES permit is currently in place for discharge of treated groundwater (i.e., LNAPL recovery system).

Oregon Groundwater Quality Protection Act (ORS 468B). This act and the implementing administrative regulations (OAR 340-040) constitute Oregon's groundwater protection program. The program incorporates federal Safe Drinking Water Act requirements and maximum contaminant level (MCL) standards. The groundwater protection program policy states that the rules are not to be used as cleanup standards, but they may be used to evaluate non-degradation of existing groundwater resources and may be considered for remedial actions that include re-injection of treated groundwater.

Oregon Air Pollution Control Law (ORS 468A). This law and its implementing administrative rules (OAR 340-028) specify permitting procedures, emission limits, and operating and reporting requirements for stationary air pollution sources (e.g., emissions from the air stripper and dust from construction activities). This law incorporates aspects of the federal Clean Air Act, NESHAPS, and new source performance standards. Airborne discharges resulting from future remedial actions may be subject to these requirements.

Oregon Occupational Safety and Health Code (OAR 347). These codes, analogous to the federal Occupational Safety and Health Administration codes, contain health and safety requirements that must be met during implementation of any remedial actions. These standards are intended to protect construction and utility workers at the site.

City of Portland. Plumbing, construction, and building permits may be required for the construction phase of remedial actions. Excavation of more than 50 cubic yards of soil may require a grading and excavation permit from the county. In addition, local zoning ordinance governs the current and future land use of the site and site vicinity, which is an important consideration in the evaluation of current and reasonably likely future uses of groundwater and surface water.

TABLE 4-1

Risk-Based Cleanup Concentrations (RBCs)and Hot Spot Concentrations for Soils

CONTAMINANT OF CONCERN	RBCs			HOT SPOT CONCENTRATION (mg/kg)
	Urban Resident Child (0 to 5 ft bgs) (mg/kg)	Construction Worker (0 to 15 ft bgs) (mg/kg)	Future Maintenance Worker (0 to 15 ft bgs) (mg/kg)	
Lead	400	2,000	2,000	ND
Benzo(a)anthracene	0.39	11	209.3	39
Chrysene	38.70	1,106	20,930	3,870
Benzo(b)fluoranthene	0.39	11	209.3	39
Benzo(k)fluoranthene	3.87	110	2093	387
Benzo(a)pyrene	0.04	1.1	20.93	4
Dibenzo(a,h)anthracene	0.05	1.9	20.93	5
Indeno(1,2,3-cd)pyrene	0.39	11.1	209.3	39
Total Petroleum Hydrocarbons (TPH)	700	41,000	460,000	ND

- For the carcinogenic PAHs, the RBCs correspond to an excess cancer risk of 1×10^{-6}. The combined cancer risk from exposure to multiple carcinogenic COCs is less than 1×10^{-5}.
- TPH RBCs correspond to an excess cancer risk of 1×10^{-6} and are based the assumption that the TPH at the site was diesel fuel.
- Lead RBCs are protective action levels derived from EPA policy and guidance.
- For the urban resident child scenario, it was assumed that the receptor could be exposed to the upper 5 feet of soil. The RBCs therefore, apply to the upper 5 feet of soil for this scenario.
- For the construction worker and future maintenance worker scenarios, it was assumed that the receptors could be exposed to soils to depths of 15 feet below ground surface. The RBCs for these scenarios apply to the soil depths from 0 to 15 feet below ground surface.
- Hot spot concentrations correspond to an excess cancer risk of 1×10^{-4}, based on the urban resident child exposure scenario.
- ND = Not determined due to lack of data. For these compounds, the determination of hot spot levels requires consideration of leachability to groundwater.

5 DESCRIPTION OF REMEDIAL ACTION ALTERNATIVES

This section provides a description of the remedial action alternatives as presented in the DEQ-approved *Final Feasibility Study, Hoyt Street Railyard* (ThermoRetec, July 1999). The descriptions of the remedial alternatives to address contaminated soils are provided in Section 5.1. Remedial alternatives addressing groundwater and LNAPL are described in Section 5.2.

5.1 SOIL ALTERNATIVES

5.1.1 Alternative 1: No Action

Alternative 1 would involve no remedial actions and serves as a baseline for comparing other alternatives. Under this alternative, the existing LNAPL recovery system and groundwater monitoring would be discontinued. There would be no engineering or institutional controls implemented for this alternative. Site redevelopment would occur without any restrictions on operations and without regard for existing soil and groundwater contamination.

5.1.2 Alternative 2: Limited Soil Excavation, Hot Spot/TCLP Lead Soil Removal, Engineering Controls, and Institutional Controls

This alternative includes the following components:

- Excavation and treatment and/or landfill disposal of hot spot soil.
- Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil.
- Excavation of soil in utility corridors where concentrations exceed the construction worker RBCs.
- Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements.
- Institutional controls.

For this alternative, approximately 6,700 cubic yards of hot spot PAH soils will be excavated and appropriately managed in accordance with Table 5-1. Figure 3-8 showed the location and approximate extent of the hot spot area (i.e., PAH soil concentrations exceeding the 1×10^{-4} risk level). Excavated hot spot soils will be disposed off-site at an approved landfill. Alternatively, excavated hot spot soils may be treated by thermal desorption or other treatment method either on-site or off-site at an approved facility. The ultimate disposition of the treated soil will be contingent on the residual contaminant concentrations as

described in Table 5-1. Thermally treated soil or clean fill from other sources meeting appropriate RBCs may be imported to the site for use as excavation backfill.

Alternative 2 also includes the excavation, stabilization, and disposal of lead-contaminated soils that exceed the TCLP-lead criterion of 5.0 mg/L, and hence, would be classified as RCRA hazardous waste. Figure 3-5 showed the location of lead-impacted soil in the former battery service area, where lead concentrations ranged from non-detect to 2,800 mg/kg. It was estimated that 1,100 cubic yards of this soil could exceed the TCLP-lead criterion based on the limited TCLP testing. Additional TCLP testing of site soils will be conducted as part of the remedial design phase of work to confirm the volume estimates.

Excavated soils that exceed the TCLP-lead criterion will be appropriately managed and disposed in accordance with applicable state and federal RCRA hazardous waste regulations. Excavated soils may be transported off-site to a RCRA-permitted facility for stabilization and disposal. Alternatively, these soils may be stabilized on-site and disposed at a municipal landfill provided the stabilized soils do not exceed the TCLP-lead criterion and do not exceed the land disposal restriction (LDR) standard.

Alternative 2 includes the excavation of soils in utility corridors that exceed the RBCs for the construction worker but do not exceed the hot spot concentrations that would require removal or treatment. The feasibility study report estimated that approximately 5,400 cubic yards of soil are in this category. This estimate assumes that a 50-foot wide utility corridor in the rights-of-way is excavated to a depth of 2 feet below ground surface for a total depth of 5 feet after capping. Excavated soils will be appropriately managed in accordance with Table 5-1.

Additional non-hot spot, non-RCRA hazardous soils (i.e., soils that would not exceed the TCLP-lead criterion) may be excavated as needed for site redevelopment (e.g., footings, rights-of-way), although the excavation of these soils is not a requirement for this alternative. These additional non-hot spot, non-RCRA hazardous soils also do not require treatment or removal to achieve the protectiveness criterion. For all redevelopment activities that involve potential exposure to contaminated soils, such as excavation and construction, the health and safety protocols specified in Table 5-2 will be implemented. Excavated soils will be managed as described in Table 5-1.

A cap will be placed in those areas where residual contaminants remain above the RBCs for the urban resident child. For areas not excavated as part of site redevelopment, a soil cap will be constructed in accordance with Table 5-2. For those areas where soil is excavated as part of site redevelopment, residual soil contamination will be evaluated to determine the need for and type of cap required. Proposed buildings, pavement, or other improvements constructed as part of the site redevelopment could be substituted for, or used to augment, parts of the soil cap, with DEQ review and approval. The cap will be installed during, and coordinated with, site redevelopment. If no redevelopment occurs for portions of the site within 15 years from the date of this Record of Decision, these areas will be capped in accordance with Table 5-2.

For costing purposes, it was assumed that, following soil excavation and backfilling, the entire 26-acre site is capped with a 2- to 3-foot layer of compacted soil. Capping in this manner will require approximately 126,000 cubic yards of clean, imported fill. The final cap thickness will be determined in the remedial design. Cap design will be consistent with Table 5-2. For park areas where a soil cap is needed, a minimum cap thickness of 3 feet will be used, and playground areas will require a minimum thickness of 5 feet. For all other areas requiring a soil cap, a minimum thickness of 2 feet will be used. A demarcation layer, such as a geomembrane, will be placed underneath the cap for the purposes of separating residual contaminants from the clean cap materials. Following cap placement and compaction, the cap will be vegetated. Periodic inspections and maintenance (e.g., mowing grass) will be performed to ensure cap integrity.

Institutional controls will include deed restrictions to prevent disturbance of the soil cap, address notification of site hazards, and ensure proper controls are implemented during future site activities. Removal or destruction of the soil cover would be cause for initiating additional remedial actions to achieve protective levels. The deed restrictions will run with the land and will be enforceable to all current and future owners of the site. Additional institutional controls will include establishing protocols for handling and managing contaminated soils during site redevelopment to protect workers, public health, and the environment.

5.1.3 Alternative 3: Extensive Soil Excavation, Hot Spot/TCLP Lead Soil Removal, Engineering Controls, and Institutional Controls

Soil Alternative 3 includes the following components:

- Excavation and treatment and/or landfill disposal of hot spot soil.
- Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil.
- Extensive excavation of soils exceeding RBCs, and on-site or off-site reuse, treatment, or landfill disposal of the impacted soils.
- Capping areas on the site where residual contaminant concentrations exceed the RBC for the urban resident child.
- Institutional controls.

In this alternative, the hot spot and TCLP-lead soils are excavated, treated, and/or disposed as described in Alternative 2. Alternative 3 includes the extensive subsurface excavation of approximately 313,000 cubic yards of non-hot spot, non-RCRA hazardous soils exceeding RBCs. This volume estimate assumes that 85% of the affected site soils are excavated. Soils exceeding the urban resident child RBCs are excavated from a depth of 0 to 5 feet below ground surface and soils exceeding the construction worker RBCs are excavated from a 5- to 15-foot depth.

As with Alternative 2, this alternative includes the implementation of the work practices described in Table 5-2 during excavation and site development. Excavated soils will be managed in accordance with Table 5-1. Formation dewatering may be required for deeper excavations that extend below the water table. This water will be treated using a temporary on-site treatment system and then discharged either to the sanitary sewer system under permit or to the Willamette River under an NPDES permit.

For those areas where residual contaminants remain above the RBC for the urban resident child, engineering and institutional controls as described in Alternative 2 will be implemented.

5.2 GROUNDWATER ALTERNATIVES

5.2.1 Alternative 1: No Action

No remedial actions would be implemented for Alternative 1. Under this alternative, the existing LNAPL recovery system and groundwater monitoring would be discontinued and no additional actions would be conducted to prevent groundwater or LNAPL movement into the Tanner Creek sewer. There would be no engineering or institutional controls implemented for this alternative. Site redevelopment would occur without any restrictions on operations and without regard for existing soil and groundwater contamination.

5.2.2 Alternative 2: LNAPL Recovery, Hydraulic Control of Groundwater and LNAPL near Tanner Creek Sewer Outfall, Groundwater Monitoring, and Institutional Controls

This alternative includes the following components:

- Continued operation of the existing LNAPL recovery system.
- Hydraulic control of contaminated groundwater and LNAPL near the Tanner Creek sewer outfall.
- Groundwater monitoring.
- Institutional controls.

This alternative implements various approaches to recover LNAPL and limit potential impacts to surface water from the Tanner Creek sewer. The existing LNAPL recovery system continues to operate until LNAPL recovery volumes decrease to asymptotic levels or development plans force abandonment of the system. If either of these situations occurs and LNAPL migration is still of concern, then contingency measures will be evaluated and implemented as feasible. The LNAPL recovery system is currently recovering LNAPL and preventing movement of LNAPL into the Tanner Creek sewer. Approximately 25% of the estimated 10,000 gallons of recoverable LNAPL has been removed in 3 years of operation of the recovery system. With recovery rates diminishing somewhat over time, the expected

operational time frame for the recovery system is 10 to 12 years. The excavation of contaminated soils in the LNAPL source areas as part of site redevelopment will reduce the contaminant mass in the subsurface and may decrease the operational time of the recovery system.

This alternative includes measures to prevent contaminated groundwater and LNAPL in the sewer backfill (i.e., pipe bedding material) from entering the river. This presupposes that collection and analysis of groundwater samples in the backfill during the remedial design phase demonstrates that the sewer is a point source threat to river water and sediment quality. Under these circumstances, systems will be installed to dewater the sewer near the location of the outfall. This most likely would involve the use of well points. Extracted groundwater will be treated in an on-site treatment system using oil/water separation and activated carbon or an equivalent system and discharged in an environmentally acceptable manner (e.g., NPDES discharge to the river or sanitary sewer system). If sewer inspections conducted during remedial design indicate significant seepage of affected groundwater into the sewer itself, this seepage will be addressed, likely by sealing the seeps. Details on the dewatering system, treatment system, and sealing of sewer pipe will be determined during the remedial design phase.

Groundwater monitoring will be implemented to track the dissolved constituent levels approaching the Willamette River and verify effectiveness of the LNAPL recovery system.

Institutional controls for this alternative include the establishment of site development protocols to address potential exposure to contaminated groundwater. These protocols will notify contractors and utilities that groundwater may be contaminated and that if encountered, groundwater should be managed in a manner which minimizes worker exposure and environmental releases, and meets applicable laws and rules regarding disposal. Specific options for on-site and off-site treatment and disposal of contaminated groundwater will be specified in the protocols.

5.2.3 Alternative 3: LNAPL Recovery, Sealing of Section of Tanner Creek Sewer, Air Sparging, Groundwater Monitoring, and Institutional Controls

This alternative includes the following components:

- Continued operation of the existing LNAPL recovery system.
- Sealing a short section of the Tanner Creek sewer backfill between the LNAPL source area and the outfall.
- Air sparging of groundwater near the Tanner Creek sewer outfall.
- Groundwater monitoring.
- Institutional controls.

This alternative is similar to Alternative 2, in that the existing LNAPL recovery system continues to operate until LNAPL is reduced to near residual levels in the source area, groundwater seeps into the Tanner Creek sewer are addressed, and groundwater monitoring and institutional controls are implemented. The existing LNAPL recovery system continues to operate until LNAPL recovery volumes decrease to asymptotic levels or development plans force abandonment of the system. If either of these situations occurs and LNAPL migration is still of concern, then contingency measures will be evaluated and implemented as feasible.

For Alternative 3, in-situ air sparging technology is employed to enhance volatilization and biodegradation of groundwater contaminants in the sewer backfill before it reaches the river. Air sparging oxygenates the groundwater and promotes aerobic biodegradation of dissolved organic compounds by naturally occurring microorganisms. Air sparging also has the potential to degrade low levels of residual LNAPL near the sewer outfall.

If necessary, additional measures will be implemented to prevent LNAPL migration to the river. These measures may include injection grouting the porous backfill surrounding the sewer pipe or installation of a physical barrier, such as concrete or other material, in the sewer backfill. Sumps or wells may be placed on the upgradient side of the barrier to allow for LNAPL recovery. Details on the air sparging system and sealing of the sewer backfill will be determined during the remedial design phase.

TABLE 5-1

Soil Management Options

Hot Spot/Lead Removal Soil

Soil Category	Soil Characteristics	Management Options
HS-1	‣ Exceeds hot spot concentrations in 0- to 5-foot soil depth (see Table 4-1); **and** ‣ Non-RCRA hazardous	‣ Municipal landfill; no debris limitations ($18 to $25/ton)
HS-2	‣ Hazardous Waste exceeds RCRA Criteria for Characteristic Hazardous Wastes (TCLP Lead >5 mg/L)	‣ Stabilization and off-site disposal at RCRA landfill ($90/ton) ‣ On-site treatment and disposal at a municipal landfill

Site Development Soil (Non-Hot Spot, Non-RCRA Hazardous Soil)

Soil Category	Soil Characteristics	Management Options
On-site Soil Reuse or Management		
ON-1	‣ Below RBCs for the Urban Resident Child (see Table 4-1)	‣ Unrestricted reuse ($3 to $6/ton)
ON-2	‣ Below RBCs for the Construction Worker (see Table 4-1)	‣ Unrestricted subgrade reuse (<$3 to $6/ton) ‣ Thermal treatment; debris allowed ($30/ton)
ON-3	‣ Below RBCs for the Future Maintenance Worker (see Table 4-1)	‣ On-site industrial subgrade backfill; to be used as fill in locations where subsequent worker contact with soil is infrequent (i.e., backfilling after initial development construction activities are complete) (<$3 to $6/ton) ‣ Soils exceeding the construction worker RBCs should not be placed in utility corridors to 5 feet below final street grade ‣ Thermal treatment; debris allowed ($30/ton)
Off-site Soil Disposal or Reuse		
OFF-1	‣ Below Soil Cleanup Levels (OAR 340-122-045, Table 1); and ‣ Below Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335)	‣ Unrestricted use ($3 to $6/ton)
OFF-2	‣ Below Industrial Maximum Allowable Concentration (OAR 340-122-045(7)); **and** ‣ Below Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335)	‣ Off-site reuse in industrial fill (permitted by DEQ) (<$3 to $6/ton) ‣ "Inert" landfill; limited debris allowed, no wood or sawdust ($5/ton) ‣ Municipal landfill; no debris limitations ($18 to $25/ton) ‣ Construction/demolition debris landfill; no wood or sawdust ($43/ton) ‣ Thermal treatment, debris allowed ($30/ton)

TABLE 5-1 (cont.)

Site Development Soil (Non-Hot Spot, Non-RCRA Hazardous Soil) (cont.)

Soil Category	Soil Characteristics	Management Options
OFF-3	▸ Exceeds Industrial Maximum Allowable Concentrations (OAR 340-122-045(7)), but below Future Maintenance Worker; **and** ▸ Below Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335)	▸ Off-site industrial subgrade backfill (permitted by DEQ) (<$3 to $6/ton) ▸ Municipal landfill; no debris limitations ($18 to $25/ton) ▸ Thermal treatment; debris allowed ($30/ton)
OFF-4	▸ Exceeds Industrial Maximum Allowable Concentrations (OAR 340-122-045(7)), but below Future Maintenance Worker, **or** ▸ Exceeds Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335); **and** ▸ Non-RCRA hazardous	▸ Lined industrial landfill as subgrade fill (permitted by DEQ) ($3 to $7/ton) ▸ Municipal landfill; no debris limitations ($18 to $25/ton) ▸ Thermal treatment; debris allowed, no sawdust ($30/ton)

NOTES:

1. The off-site disposal of soils that exceed Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335) or the Soil Cleanup Levels of OAR 340-122-045, Table 1, is subject to approval by DEQ and may require a Letter of Authorization or Solid Waste Permit from DEQ.
2. For Soil Categories OFF-2 and OFF-3, higher concentrations of TPH may be allowed by off-site reuse, i.e., Level 2 or Level 3 Soil Matrix Cleanup Standards, if it can be demonstrated that the off-site location to receive the soil meets the appropriate Level 2 or Level 3 conditions of OAR 340-122-325 to 335. DEQ may also consider alternative TPH concentrations if it can be demonstrated through the conductance of leaching tests, that leaching of contaminants to groundwater would not present a risk. The use of these alternative TPH levels is subject to approval by DEQ.
3. The use of inert landfills, construction/demolition debris landfills, and municipal landfills is subject to the terms and conditions of their respective solid waste permits. Requirements for soil disposal may be more restrictive than those listed above. The owner/operator of the landfill should be contacted for prior approval and specific requirements for soil disposal.
4. Use of excavated soil as subgrade backfill means that the backfill is capped with clean soil, pavement, buildings or other cover structures.
5. Unit costs are approximate and do not include excavation or transportation. On-site and off-site backfilling includes spreading and compaction.
6. Debris generated by screening may be disposed at a construction/demolition debris landfill at ($43/ton) or an "inert" landfill ($0 to $5/ton), subject to the terms and conditions of their permits. Inert landfills do not accept wood. Screening costs approximately $6.30/ton of soil.
7. Ability to reuse at off-site industrial fill locations is opportunistic. A location must be available at the time the soil is generated-and will require a Letter of Authorization or Solid Waste Permit by DEQ.
8. It is possible that OFF-3 soil could be disposed at an inert landfill upon special DEQ consideration. Permission for this option has not been secured at this time and therefore, costs were not generated associated with this option.
9. TPS, Inc. is the local provider of off-site thermal treatment and was used for costing this option.
10. Off-site management of TPH-impacted soils must be consistent with the DEQ Policy for Reuse of Petroleum Contaminated Soil; October 5, 1992 (Policy #550).

Table 5-2 Potential Hoyt Street Remedy Plan Based on Block Use

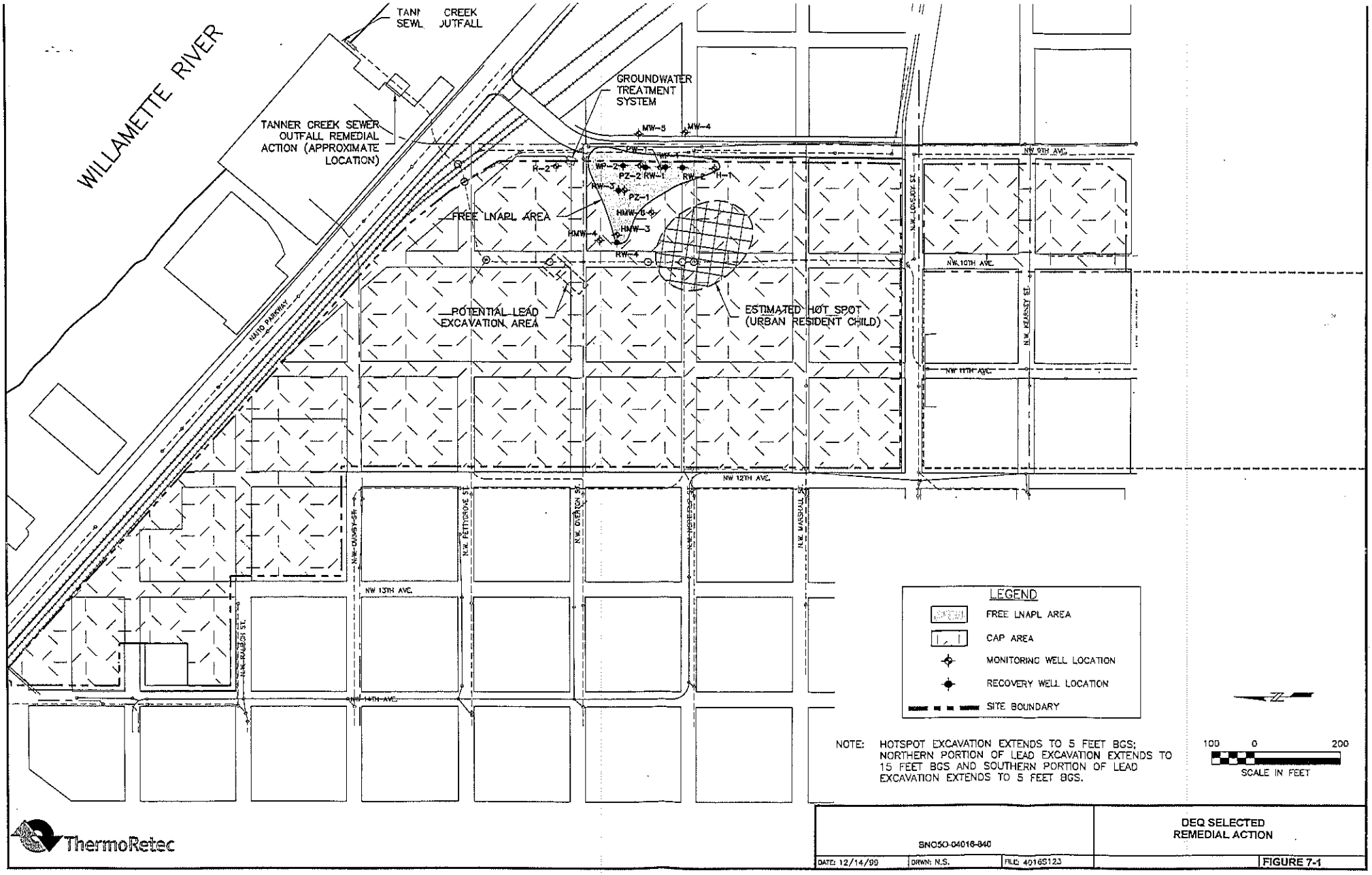
Block Use	Conceptual Design	Property Redevelopment Work	Maintenance	Soil Disposal
Park	• Cap consisting of 3 feet of soil ≤URC RBCs; underlain by an identifier layer (5 feet in playground structure area).	• *For Excavation:* (1) If soils 0 to 3 feet bgs are >CW RBCs, use appropriately trained personnel. (2) If soils 0 to 3 feet bgs are ≤ CW RBCs, no restrictions (depths to 5 feet bgs in playground structure areas). • *For Subsequent Construction:* (1) If sidewalls or base of excavation > CW RBCs, cap with sealant or soil to eliminate contact or use appropriately trained personnel. (2) If sidewalls or base of excavation ≤CW RBCs, no restrictions.	• Record of construction and location of different types of soil and identifier layers along with a cap maintenance plan. • Segregation of soils during excavation and replacement of any soil >URC RBC at the appropriate (source) depth. • If soils at depth are >FMW RBCs future excavations to depth need to be completed by appropriately trained personnel. • Institutional controls.	See Table 5-1
Building (excavations for footings, utility tie-ins, and other development needs)	• Cap consisting of 2 feet of soil ≤URC RBCs; or asphalt or concrete (building). Identifier layer placed beneath soil cap, but not beneath asphalt or concrete. Utility tie-ins backfilled with soil ≤CW RBCs. If soil surrounding the utility tie-in trench is >CW RBCs, an identifier layer will be placed in the trench.	• *For Excavation:* (1) If soils 0 to the total depth of excavation are >CW RBCs, use appropriately trained personnel. (2) If soils 0 to total depth of excavation are ≤CW RBCs, no restrictions. • *For Subsequent Construction:* (1) If sidewalls or base of excavation >CW RBCs, seal soil face to prevent exposure or cap with soil to eliminate contact or use appropriately trained personnel. (2) If sidewalls or base of excavation ≤CW RBCs, no restrictions.	• Record of location of any soil >FMW RBCs. • Any soil excavated from beneath the cap must be contained and reused as subgrade fill or disposed off site. • If soils at depth are >FMW RBCs, future excavations to depth need to be completed by appropriately trained personnel. • Institutional controls.	See Table 5-1
Rights-of-way (ROW)	• Cap consisting of 2 feet of soil ≤URC RBCs; or asphalt or concrete. Utility corridors within the ROW—either open races or trenches backfilled with soil ≤CW RBCs to 5 feet bgs (final street grade) and separated by an identifier layer.	• *For Excavation:* (1) If soils 0 to the 5 feet bgs are >CW RBCs, use appropriately trained personnel. (2) If soils 0 to 5 feet bgs are ≤CW RBCs, no restrictions. • *For Subsequent Construction:* (1) If sidewalls or base of excavation >CW RBCs, seal soil face to prevent exposure or cap with soil to eliminate contact or use appropriately trained personnel. (2) If sidewalls or base of excavation ≤CW RBCs, no restrictions.	• Record of location of any soil >FMW RBCs. • Any soil excavated from beneath the cap must be contained and reused as subgrade fill or disposed off site. • If soils at depth are >FMW RBCs, future excavations to depth need to be completed by appropriately trained personnel. • Institutional controls.	See Table 5-1

NOTES:

This table provides potential conceptual engineering and institutional controls based on block use. Details on engineering and institutional controls as required by the Record of Decision will be specified in subsequent design plans, developed as part of the remedial design phase of work.

Alternative cap designs may be developed during the remedial design phase, provided it can be demonstrated that the alternative design will be protective.

≤URC RBCs = Soil with chemical concentrations equal to or less than the urban resident child (URC) risk-based cleanup concentrations (RBCs) as defined in Table 4-1.
>URC RBCs = Soil with chemical concentrations greater than the urban resident child (URC) RBCs as defined in Table 4-1.
≤CW RBCs = Soil with chemical concentrations equal to or less than the construction worker (CW) RBCs as defined in Table 4-1.
>CW RBCs = Soil with chemical concentrations greater than the construction worker (CW) RBCs as defined in Table 4-1.
>FMW RBCs = Soil with chemical concentrations greater than the future maintenance worker (FMW) RBCs as defined in Table 4-1.


WILLAMETTE RIVER
TANNER CREEK SEWER OUTFALL REMEDIAL ACTION (APPROXIMATE LOCATION)
GROUNDWATER TREATMENT SYSTEM
FREE LNAPL AREA
POTENTIAL LEAD EXCAVATION AREA
ESTIMATED HOT SPOT (URBAN RESIDENT CHILD)
MW-5
MW-4
RW-1
RW-2
RW-3
RW-4
RW-5
RW-6
PZ-1
PZ-2
HMW-6
HMW-3
HMW-4
NW 9TH AVE.
NW 10TH AVE.
NW 11TH AVE.
NW 12TH AVE.
NW 13TH AVE.
NW 14TH AVE.
N.W. LOVEJOY ST.
N.W. KEARNEY ST.
N.W. PETTYGROVE ST.
N.W. OVERTON ST.
N.W. HOYT ST.
N.W. MARSHALL ST.
N.W. RALEIGH ST.
HAITO PARKWAY
LEGEND
FREE LNAPL AREA
CAP AREA
MONITORING WELL LOCATION
RECOVERY WELL LOCATION
SITE BOUNDARY
NOTE: HOTSPOT EXCAVATION EXTENDS TO 5 FEET BGS; NORTHERN PORTION OF LEAD EXCAVATION EXTENDS TO 15 FEET BGS AND SOUTHERN PORTION OF LEAD EXCAVATION EXTENDS TO 5 FEET BGS.
100 0 200
SCALE IN FEET
ThermoRetec
SNOSO-04016-840
DEQ SELECTED REMEDIAL ACTION
DATE: 12/14/99
DRWN: N.S.
FILE: 40165123
FIGURE 7-1

6 EVALUATION OF REMEDIAL ACTION ALTERNATIVES

This section presents the evaluation of the remedial action alternatives with respect to the remedy selection criteria in OAR 340-122-0090. Section 6.1 provides an overview of the evaluation criteria. Section 6.2 provides a specific evaluation of each of the soil and groundwater alternatives with respect to these remedy selection criteria. The results of this evaluation provide the basis for the selected remedial action alternative described in Section 7 and DEQ's final decision on the selected remedial action described in Section 10.

6.1 EVALUATION CRITERIA

The evaluation of remedial action alternatives includes the following three criteria:

- The protectiveness of the alternative based upon the standards of OAR 340-122-0040;
- The feasibility of the alternative based upon the balancing factors set forth in OAR 340-122-0090(3). These balancing factors are described in detail in Section 6.1.2 .
- Remediation of hot spots of contamination to the extent feasible based upon the criteria set forth in OAR 340-122-0090(4).

6.1.1 Protectiveness

The protectiveness of the remedial action alternatives is evaluated relative to the site-specific RAOs defined in Section 4.1 and the health-based action levels (RBCs) developed in Section 4.2. A remedial action alternative may achieve protection through treatment; excavation and off-site disposal; engineering controls; institutional controls; other protective methods; or a combination of these.

6.1.2 Balancing Factors

The balancing factors are effectiveness, long-term reliability, implementability, implementation risk, and reasonableness of cost. These are described in further detail below.

6.1.2.1 Effectiveness

Each remedial action alternative is assessed for its effectiveness in achieving protection, by considering the following criteria, as appropriate:

- Magnitude of risk from untreated waste or treatment residuals remaining at the facility absent any risk reduction achieved through on-site management of exposure pathways. The characteristics of the residuals are considered to the

degree that they remain hazardous, taking into account their volume, toxicity, mobility, propensity to bioaccumulate, and propensity to degrade;

- Adequacy of any engineering and institutional controls necessary to manage the risk from treatment residuals and untreated hazardous substances remaining at the facility;
- For hot spots in water, the extent to which the remedial action restores or protects existing and reasonably likely future beneficial uses of water;
- Adequacy of treatment technologies in meeting treatment objectives; and
- Time until the remedial action objectives would be achieved.

6.1.2.2 Long-Term Reliability

Each remedial action alternative is assessed for its long-term reliability, by considering the following criteria, as appropriate:

- Reliability of treatment technologies in meeting treatnent objectives;
- Reliability of engineering and institutional controls necessary to manage the risk from treatment residuals and untreated hazardous substances, taking into consideration the characteristics of the hazardous substances to be managed and the effectiveness and enforceability over time of engineering and institutional controls in preventing migration of contaminants and in managing risks associated with potential exposure; and
- Nature, degree, and certainties or uncertainties of any necessary long-term management (e.g., operation, maintenance, and monitoring).

6.1.2.3 Implementability

Each remedial action alternative is assessed for the ease or difficulty of implementing the remedial action, by considering the following criteria, as appropriate:

- Practical, technical, and legal difficulties and unknowns associated with the construction and implementation of a technology, engineering control, or institutional control, including potential scheduling delays;
- The ability to monitor the effectiveness of the remedy;
- Consistency with federal, state and local requirements; activities needed to coordinate with other agencies; and the ability and time required to obtain any necessary authorization from other governmental bodies; and
- Availability of necessary services, materials, equipment, and specialists, including the availability of adequate off-site treatment, storage, and disposal capacity and services, and availability of prospective technologies.

6.1.2.4 Implementation Risk

Each remedial action alternative is assessed for the risk from implementing the remedial action, by considering the following, as appropriate:

- Potential impacts on the community during implementation of the remedial action and the effectiveness and reliability of protective or mitigative measures;
- Potential impacts on workers during implementation of the remedial action and the effectiveness and reliability of protective or mitigative measures;
- Potential impacts on the environment during implementation of the remedial action and the effectiveness and reliability of protective or mitigative measures; and
- Time until the remedial action is complete.

6.1.2.5 Reasonableness of Cost

Each remedial action alternative is assessed for the reasonableness of cost of the remedial action, by considering the following, as appropriate:

- Cost of the remedial action, including: direct and indirect capital costs; annual operation and maintenance costs; costs of any periodic review requirements; and net present value of all of the above;
- Degree to which the costs of the remedial action are proportionate to the benefits to human health and the environment created through risk reduction or risk management;
- With respect to hot spots of contamination in water, the degree to which the costs of the remedial action are proportionate to the benefits created through restoration or protection of existing and reasonably likely future beneficial uses of water; and
- The degree of sensitivity and uncertainty of the costs.

6.1.3 Remediation of Hot Spots

The evaluation of remedial action alternatives, with respect to the remediation of hot spots of contamination in media other than water, considers the treatment or excavation and off-site disposal at an authorized disposal facility or the combination of treatment or excavation, to the extent such measures are feasible based on the criteria in OAR 340-122-0085(7), and the balancing factors set forth in OAR 340-122-0090(3) and previously described in Section 6.1.2.

For hot spots of contamination in water, the evaluation of feasibility of treatment is based on criteria in OAR 340-122-0085(5) and the balancing factors set forth in OAR 340-122-0090(3) and described above in Section 6.1.2.

6.2 EVALUATION OF SOIL ALTERNATIVES

This section provides an evaluation of each of the soil alternatives with respect to the evaluation criteria described in Section 6.1.

6.2.1 Soil Alternative 1

Protectiveness. This no action alternative does not achieve the protectiveness requirements. In this alternative, the remedial action objectives are not satisfied.

Effectiveness. This alternative is not effective at reducing or managing risk. The magnitude of residual risk is unacceptable.

Long-Term Reliability. This alternative does not achieve long-term reliability.

Implementability. This no action alternative is easy to implement, however, none of the remedial action objectives are met.

Implementation Risk. The risk to implement this alternative is low.

Reasonableness of Cost. The costs for this alternative are low, however, there are no benefits to human health or the environment created.

Remediation of Hot Spots. This alternative does not remediate hot spots of contamination in soil.

6.2.2 Soil Alternative 2

Protectiveness. This alternative, which includes the removal of hot spot soils, TCLP-lead soils, and capping, satisfies the protectiveness criterion. Protectiveness is achieved by construction of a cap over the entire site that minimizes exposure by site residents to residual soils exceeding RBCs. Also, engineering and institutional controls protect future site residents and construction workers.

Effectiveness. Excavation, treatment and off-site disposal of hot spot and TCLP-lead soils reduces toxicity, mobility, and volume of hazardous substances at the site. The residual contaminated soils remaining below the cap presents an unacceptable risk for future residents and construction worker receptors. Capping adequately manages the risks by eliminating the pathway to exposure by site residents to these residual contaminated soils. Institutional controls and the cap inspection and maintenance program provide additional assurance in managing these residual risks.

Thermal desorption is a proposed method for treating the hot spot soils. This treatment technology is an effective method for reducing the concentration of organic contaminants in soil. The ultimate disposition of treated soil will be contingent on the residual contaminant concentrations. For treatment of the TCLP-lead soils, stabilization is an effective, proven technology for reducing the mobility of the lead prior to disposal.

This alternative is expected to be implemented in 10 years or less, depending upon the site development time frame. If site redevelopment plans are delayed, implementation of the remedy will not exceed 15 years.

Long-Term Reliability. Treatment methods for hot spot and TCLP-lead soils are reliable and will meet treatment objectives. Capping is a reliable control, provided that the deed restrictions are enforced and the cap inspection and maintenance program is effectively implemented over the life of the cap. Future site development could renew exposure risks, although deed restrictions and the implementation of established protocols for handling and managing contaminated soils during site redevelopment will minimize the potential risks to construction workers, public health, and the environment.

Implementability. This alternative is readily implementable. Implementation of this alternative will need to be closely coordinated with the site redevelopment plans and schedules. The effectiveness of this alternative will be monitored through the cap inspection program and periodic DEQ reviews. The implementation of this alternative will be consistent with the applicable regulatory requirements identified in Section 4.3 and with future land use based on zoning. Technologies and legal mechanisms are available for the engineering and institutional controls. The necessary services, materials, and equipment for implementing this alternative are readily available.

Implementation Risk. There are potential risks to the community, construction workers, and the environment associated with the implementation of this alternative if exposure to contaminated soils occurs. However, site security measures, health and safety protocols, and release control measures will be implemented to reduce these exposure risks. These mitigative measures are considered effective and reliable. The remediation time frame will vary depending upon the rate of site development but will not exceed 15 years.

Reasonableness of Cost. The present worth total cost for this alternative, including capital and annual operation and maintenance costs, was estimated at $4,557,000. Costs will vary depending upon the amount of soil disposed and the ability to coordinate capping with development. This estimated cost is reasonable for the level of protection achieved. The costs for this alternative are proportionate to the benefits created through risk reduction and risk management, which are moderate. Some risk reduction is achieved by mass removal of hot spot soils. Residual risks are managed by engineering and institutional controls.

Remediation of Hot Spots. This alternative remediates soil hot spots to the extent feasible. Soil hot spot areas are excavated to a depth of 5 feet below ground surface and backfilled with clean soil (i.e., less than the urban resident child RBCs), eliminating the exposure pathway for the urban resident child receptor. Excavated soils are treated or disposed off-site at an approved facility.

6.2.3 Soil Alternative 3

Protectiveness. This alternative achieves protection through the removal of hot spot soils, TCLP-lead soils, and extensive volumes of soil exceeding RBCs from the site. Additional protection is achieved by capping remaining areas where soils exceed RBCs. Engineering and institutional controls protect future site users from residual contamination.

Effectiveness. Excavation, treatment and off-site disposal of hot spot and TCLP-lead soils reduces toxicity, mobility, and volume of hazardous substances at the site. The excavation and off-site management of additional soils exceeding RBCs would further reduce the toxicity and volume of hazardous substances remaining at the site. For some areas of the site, residual contaminated soils will remain that present an unacceptable risk for future residents and construction worker receptors. Capping adequately manages the risks by eliminating the pathway to exposure by site residents to these residual contaminated soils. Institutional controls and the cap inspection and maintenance program provide additional assurance in managing these residual risks.

Thermal desorption is a proposed method for treating the hot spot soils and other soils exceeding RBCs. This treatment technology is an effective method for reducing the concentration of organic contaminants in soil. The ultimate disposition of treated soil will be contingent on the residual contaminant concentrations. For treatment of the TCLP-lead soils, stabilization is an effective, proven technology for reducing the mobility of the lead prior to disposal.

This alternative is expected to be implemented in 10 years or less depending upon the site development time frame. If site redevelopment plans are delayed, implementation of the remedy will not exceed 15 years.

Long-Term Reliability. Treatment methods for hot spot soils, TCLP-lead soils, and other soils exceeding RBCs are reliable and will meet treatment objectives. Capping is a reliable control, provided that the deed restrictions are enforced and the cap inspection and maintenance program is effectively implemented over the life of the cap. Future site development could renew exposure risks, although deed restrictions and the implementation of established protocols for handling and managing contaminated soils during site redevelopment will minimize the potential risks to construction workers, public health, and the environment.

Implementability. This alternative is readily implementable, although large volumes of contaminated soils would be generated, requiring appropriate management. The effectiveness of this alternative will be monitored through the cap inspection program and periodic DEQ reviews. The implementation of this alternative will be consistent with the applicable regulatory requirements identified in Section 4.3 and with future land use based on zoning. Technologies and legal mechanisms are available for the engineering and institutional controls. The necessary services, materials, and equipment for implementing this alternative are readily available. Disposal capacity at municipal landfills is available for excavated soils.

Implementation Risk. There are potential risks to the community, construction workers, and the environment associated with the implementation of this alternative if exposure to contaminated soils occurs. However, site security measures, health and safety protocols, and release control measures will be implemented to reduce these exposure risks. These mitigative measures are considered effective and reliable. The remediation time frame for the excavation of contaminated soils could occur within a single construction season. The remediation time frame for implementation of the engineering and institutional controls will vary depending upon the rate of site development but will not exceed 15 years.

Reasonableness of Cost. The present worth total cost for this alternative, including capital and annual operation and maintenance costs, was estimated at $22,550,000. These costs are not considered reasonable for the level of protection achieved. The costs for this alternative are disproportionate to the benefits created through risk reduction and risk management, which are moderate. While significant risk reduction occurs through mass removal of contaminated soils, residual contaminated soils still remain that present unacceptable risks. These residual risks must be managed by engineering and institutional controls.

Remediation of Hot Spots. This alternative remediates soil hot spots to the extent feasible. Soil hot spot areas are excavated to a depth of 5 feet below ground surface and backfilled with clean soil (i.e., less than the urban resident child RBCs), eliminating the exposure pathway for the urban resident child receptor. Excavated soils are treated or disposed off-site at an approved facility.

6.3 EVALUATION OF GROUNDWATER ALTERNATIVES

6.3.1 Groundwater Alternative 1

Protectiveness. This no action alternative does not achieve the protectiveness requirements. In this alternative the remedial action objectives are not satisfied. LNAPL and dissolved-phase contamination in groundwater continue to migrate to the river via the Tanner Creek sewer, creating the potential for unacceptable risks.

Effectiveness. This alternative is not effective at reducing or managing risk. The magnitude of residual risk is potentially unacceptable due to the continued migration of LNAPL and dissolved-phase contamination in groundwater to the river via the Tanner Creek sewer.

Long-Term Reliability. This alternative does not achieve long-term reliability.

Implementability. This no action alternative is easy to implement, however, none of the remedial action objectives are met.

Implementation Risk. The risk to implement this alternative is low.

Reasonableness of Cost. The costs for this alternative are low, however, there are no benefits to human health or the environmental created.

Remediation of Hot Spots. This alternative does not treat or remove the LNAPL hot spots of contamination.

6.3.2 Groundwater Alternative 2

Protectiveness. This alternative, which includes LNAPL recovery, hydraulic control of groundwater and LNAPL near the Tanner Creek sewer outfall, groundwater monitoring, and institutional controls, satisfies the protectiveness criterion. Protectiveness is achieved by preventing LNAPL and impacted groundwater from reaching the Willamette River.

Effectiveness. Groundwater and LNAPL extraction and treatment are effective approaches for reducing the mobility and volume of hazardous substances, thereby reducing residual risk at the site. Hydraulic control measures also prevent off-site migration of untreated contaminated groundwater. Residual risk remaining from untreated contaminated groundwater is also addressed through institutional controls that include the establishment of site development protocols to limit potential exposure to contaminated groundwater. Additionally, by preventing migration of LNAPL and contaminated groundwater into the river, existing and reasonable likely future beneficial uses of the river are protected.

The proposed treatment methods for extracted LNAPL and groundwater are conventional, effective technologies for reducing the concentration of organic constituents.

Remedial action objectives for LNAPL and groundwater are achieved upon installation of the extraction and treatment system.

Long-Term Reliability. The extraction and treatment technologies for LNAPL and groundwater are reliable in meeting treatment objectives and are easily maintained, modified, or replaced. Hydraulic control measures are reliable in preventing off-site migration of contaminated groundwater. Implementation of established protocols for handling and managing contaminated groundwater during site redevelopment can be reliable in minimizing the potential risks to construction workers, public health, and the environment. Long-term operation and maintenance will need to be coordinated with future site uses.

Implementability. This alternative is readily implementable. Extraction and treatment systems are readily designed and constructed. Implementation of this alternative will need to be coordinated with the site redevelopment plans and schedules. The effectiveness of this alternative can be easily monitored through the groundwater monitoring program. The implementation of this alternative will be consistent with the applicable regulatory requirements identified in Section 4.3. The necessary services, materials, and equipment for implementing this alternative are readily available.

Implementation Risk. The overall risk to implement this alternative is low. The risks to the community, workers, and the environment during construction and operation of the extraction and treatment systems are low and easily managed through implementation of site security measures, health and safety protocols, and release control measures. These

mitigative measures are considered effective and reliable. The remediation time frame assumes a 10-year operation period and 15-year monitoring period.

Reasonableness of Cost. The present worth total cost for this alternative, including capital and annual operation and maintenance costs, was estimated at $956,047. This estimated cost is reasonable for the level of protection achieved. The costs for this alternative are proportionate to the benefits created through risk reduction and risk management, which are moderate. Some risk reduction is achieved by mass removal of LNAPL and contaminated groundwater, although the primary benefit is realized through preventing migration of LNAPL and contaminated groundwater. There are uncertainties associated with the costs of the extraction and treatment system due to the required time frame for operation. The uncertainties associated with the system design will be defined during the remedial design phase.

Remediation of Hot Spots. This alternative treats LNAPL hot spots.

6.3.3 Groundwater Alternative 3

Protectiveness. This alternative which includes LNAPL recovery, air sparging of groundwater near the Tanner Creek sewer outfall, groundwater monitoring, and institutional controls satisfies the protectiveness criterion. Protectiveness is achieved by preventing LNAPL and impacted groundwater from reaching the Willamette River.

Effectiveness. LNAPL recovery and air sparging of groundwater are effective approaches for reducing the mobility, toxicity, and volume of hazardous substances, thereby reducing residual risk at the site. Residual risk remaining from untreated contaminated groundwater is addressed through institutional controls that include the establishment of site development protocols to limit potential exposure to contaminated groundwater. Additionally, by preventing migration of LNAPL and contaminated groundwater into the river, existing and reasonably likely future beneficial uses of the river are protected.

In-situ air sparging and the proposed treatment methods for extracted LNAPL are proven, effective technologies for reducing the concentration of organic constituents.

Remedial action objectives for LNAPL and groundwater are achieved upon installation of the LNAPL extraction and treatment system and in-situ air sparging system.

Long-Term Reliability. The extraction and treatment technologies for LNAPL and in-situ air sparging for groundwater are reliable in meeting treatment objectives and are easily maintained, modified, or replaced. These measures are reliable in preventing off-site migration of contaminated groundwater. Implementation of established protocols for handling and managing contaminated groundwater during site redevelopment can be reliable in minimizing the potential risks to construction workers, public health, and the environment. Long-term operation and maintenance will need to be coordinated with future site uses.

Implementability. This alternative is readily implementable. LNAPL extraction and treatment systems are readily designed and constructed. In-situ air sparging systems are also readily designed and constructed, although a pilot-scale treatability test may be required. Implementation of this alternative will need to be coordinated with the site redevelopment plans and schedules. The effectiveness of this alternative can be easily monitored through the groundwater monitoring program. The implementation of this alternative will be consistent with the applicable regulatory requirements identified in Section 4.3. The necessary services, materials, and equipment for implementing this alternative are readily available.

Implementation Risk. The overall risk to implement this alternative is low. The risks to the community, workers, and the environment during construction and operation of the extraction and treatment systems are low and easily managed through implementation of site security measures, health and safety protocols, and release control measures. These mitigative measures are considered effective and reliable. The remediation time frame assumes a 10-year operation period and 15-year monitoring period.

Reasonableness of Cost. The present worth total cost for this alternative, including capital and annual operation and maintenance costs, was estimated at $861,229. This estimated cost is reasonable for the level of protection achieved. The costs for this alternative are proportionate to the benefits created through risk reduction and risk management, which are moderate. Some risk reduction is achieved by mass removal of LNAPL and contaminated groundwater, although the primary benefit is realized through preventing migration of LNAPL and contaminated groundwater. There are uncertainties associated with the costs of the LNAPL extraction and treatment and in-situ air sparging systems due to the required time frame for operation. The uncertainties associated with the system designs will be defined during the remedial design phase.

Remediation of Hot Spots. This alternative treats LNAPL hot spots.

6.4 COMPARATIVE ANALYSIS OF ALTERNATIVES

6.4.1 Soil Alternatives

All of the soil alternatives, with the exception of Alternative 1, the no action alternative, meet the requirements of protectiveness; feasibility based on the balancing of the remedy selection factors of effectiveness, long-term reliability, implementability, implementation risk, and cost reasonableness; and remediating hot spots of contamination to the extent feasible.

Soil Alternatives 2 and 3 differ primarily in the volumes of soil removed and therefore, the reductions in contaminant mass achieved. The soil volumes removed and treated or disposed, and associated present worth costs are as follows:

Alternative 2: 13,200 cubic yards at $4,557,000.

Alternative 3: 320,800 cubic yards at $22,550,000.

6.4.1.1 Protectiveness

Soil Alternative 1, the no action alternative, is not protective. Alternatives 2 and 3 are both protective.

6.4.1.2 Effectiveness

Soil Alternative 1 was not effective at reducing or managing risk. Alternative 3 provides a higher degree of effectiveness than Alternative 2 due to mass removal of contaminants, which lowers the magnitude of residual risk. With Alternative 3, the site no longer poses a risk to the construction worker after soil removal. For both Alternatives 2 and 3, residual risks to the future residents are managed by capping.

6.4.1.3 Long-Term Reliability

Alternative 1 does not achieve long-term reliability. The long-term reliability for Alternatives 2 and 3 is similar in that they both require cap inspections and maintenance, and institutional controls.

6.4.1.4 Implementability

Alternative 1 is readily implementable, although none of the remedial action objectives are achieved. Alternative 3 may be more difficult to implement than Alternative 2 due to the larger volumes of soils to be excavated, managed, and disposed. Both Alternatives 2 and 3 need to be closely coordinated with site redevelopment plans and schedules.

6.4.1.5 Implementation Risk

The implementation risk for Alternative 1 is low. For Alternatives 2 and 3, the transport method and distance for off-site disposal of excavated soils are presumed to be the same. Alternative 3 results in a higher implementation risk than Alternative 2 due to the larger volumes of contaminated soils that are handled by construction workers and transported through the community to treatment or disposal facilities.

6.4.1.6 Reasonableness of Cost

The costs for Alternative 1 are low, however, there are no risk reduction or risk management benefits created. The estimated costs for Alternative 2 are reasonable for the level of protection achieved. The costs for Alternative 2 are low and proportionate to the benefits achieved through risk reduction and risk management, which are moderate. The estimated costs for Alternative 3 are not reasonable for the level of protection achieved. Costs for Alternative 3 are high and are disproportionate to the benefits created through risk reduction and risk management, which are moderate.

6.4.1.7 Remediation of Hot Spots

Alternative 1 does not remediate hot spots of contamination. Both Alternatives 2 and 3 remediate the same volume of hot spots of contamination.

6.4.2 Groundwater Alternatives

6.4.2.1 Protectiveness

Alternative 1 does not achieve the protectiveness requirements. Alternatives 2 and 3 are equally protective as both prevent migration of LNAPL and impacted groundwater from reaching the Willamette River.

6.4.2.2 Effectiveness

Alternative 1 is not effective. Alternatives 2 and 3 differ in the treatment technologies implemented although the effectiveness of the treatment technologies is similar in reducing contaminant mobility, toxicity, and volume, and in preventing contaminant migration.

6.4.2.3 Long-Term Reliability

Alternative 1 does not provide any long-term reliability. The long-term reliability for Alternatives 2 and 3 is similar in that they both meet treatment objectives and prevent off-site migration of contaminated groundwater. Both alternatives require long-term system operation and maintenance.

6.4.2.4 Implementability

Alternative 1 is easy to implement, although none of the remedial action objectives are met. Alternatives 2 and 3 are both readily implementable. The extraction and treatment technologies for both alternatives are readily designed and constructed. Both alternatives require coordination with site redevelopment plans and schedules, and groundwater monitoring.

6.4.2.5 Implementation Risk

The implementation risk associated with Alternative 1 is very low. Alternatives 2 and 3 both present a low implementation risk. Both alternatives require implementation of site security measures, health and safety protocols, and release control measures to manage risks during construction and operation of the extraction and treatment systems.

6.4.2.6 Reasonableness of Cost

The costs for Alternative 1 are low, however, there are no risk reduction or risk management benefits created. The estimated costs for Alternatives 2 and 3 are very similar considering the level of accuracy of cost estimating typically associated with a feasibility study (i.e., +50%, -30%). Both alternatives provide the same degree of benefits achieved through risk reduction and risk management. For both alternatives, the costs are proportionate to benefits.

6.4.2.7 Remediation of Hot Spots

Alternative 1 does not remediate hot spots of contamination. Both Alternatives 2 and 3 remediate the LNAPL hot spots.

7 SELECTED REMEDIAL ACTION

7.1 BASIS FOR SELECTED REMEDIAL ACTION

The selection of the soil and groundwater remedial actions is based on the evaluation and comparison of remedial action alternatives as described in Section 6, completion of interim removal actions, and consideration of public comments received on DEQ's *Staff Report for Recommended Remedial Action for Hoyt Street Railyard, Portland, Oregon,* dated January 1, 2000.

7.2 DESCRIPTION OF THE SELECTED REMEDIAL ACTION

This section provides a description of DEQ's selected remedial action for soils and groundwater at the Hoyt Street Railyard site.

7.2.1 Selected Remedial Action for Soils

The DEQ selected remedial alternative for soils is based on Alternative 2 as described in Section 5.1.2, and includes the following components:

- Excavation and treatment and/or landfill disposal of hot spot soils.
- Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil.
- Excavation of soil in utility corridors where concentrations exceed the construction worker RBCs in the upper 5 feet of soil.
- Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements.
- Institutional controls.

This remedial action provides a cost-effective, protective approach to remediating impacted soil while allowing for high-density residential, commercial, and recreational redevelopment of the site. Protectiveness is achieved by removing hot spot soils, lead-contaminated soils, and then capping the site to reduce potential exposure to residual contamination. The remedial plan provided in Table 5-2, outlines the conceptual cap design based on block use and addresses engineering and institutional controls for site development. Figure 7-1 shows areas of the site where the remedial actions are expected to occur.

Hot Spot Removal. The *Final Feasibility Study Report* estimated that 6,700 cubic yards of soils at the site exceeded the hot spot concentrations defined in Table 4-1. Figure 7-1 shows the location and approximate extent of the hot spot area (i.e., PAH soil concentrations exceeding the 1×10^{-4} risk level) in the vicinity of sample TPG-3. Alternative 2, as described in Section 5.1.2, proposed that the 6,700 cubic yards of hot spot PAH soils would be

excavated and appropriately managed and either disposed off-site at an approved landfill or treated by thermal desorption or other treatment method at an approved facility.

The recent interim removal action conducted by BNSF in April 2000, as described in Section 9.0, involved the removal of 68 cubic yards (95 tons) of contaminated soils in the hot spot area delineated in Figure 7-1. Confirmation sampling results showed that PAH concentrations remaining in soils in this area are less than hot spot levels. Excavated soils were treated at an off-site thermal treatment facility, TPS Technologies in Portland, Oregon. The excavation area was backfilled with clean soil.

There were no other PAH hot spot areas identified during the remedial investigation and feasibility study based on existing analytical data. However, should future sampling and analysis of soils result in the identification of hot spot soils, defined as PAH soil concentrations exceeding the 1×10^{-4} risk level for the urban resident child RBC in the upper 5 feet of soil, then these hot spot soils will be excavated and appropriately managed and disposed off-site in accordance with Table 5-1.

Lead Contamination Removal. The selected remedial action for soils includes the excavation, stabilization, and disposal of lead-contaminated soils that would be characterized as RCRA hazardous waste by exceeding the TCLP-lead criterion of 5.0 mg/L. Figure 7-1 shows the location and approximate extent of lead-impacted soil to be addressed. It was estimated that 1,100 cubic yards of soil in the former battery servicing area exceeded the TCLP-lead criterion based on the limited TCLP testing. Additional TCLP testing of site soils would be conducted as part of the remedial design phase of work to confirm the volume estimates.

Excavated soils that exceed the TCLP-lead criterion would be appropriately managed, stabilized as necessary, and disposed as D008 RCRA hazardous wastes in accordance with applicable state and federal regulations. Excavated soils may be transported off-site to a RCRA-permitted facility for stabilization and disposal. Alternatively, these soils may be stabilized on-site and disposed at a municipal landfill, provided the stabilized soils do not exceed the TCLP-lead criterion and meet the RCRA land disposal restriction requirements. The on-site stabilization process is subject to applicable substantive state and federal hazardous waste management requirements, including 40 CFR 262, 265, and 268. The estimated cost for the excavation, stabilization, and disposal of these RCRA soils was $197,000.

Selected Excavations in Utility Corridors. For the selected remedial action, contaminated soils in the utility corridors exceeding the RBCs for the construction worker will be excavated to a depth of up to 5 feet below final street grade and appropriately managed in accordance with Table 5-1. The feasibility study determined that it was feasible to remove these soils. The *Final Feasibility Study Report* estimated that approximately 5,400 cubic yards of soil are in this category. This estimate assumes that a 50-foot wide utility corridor within the right-of-way is excavated to a depth of 2 feet below the original ground surface and grade is raised 3 feet with a clean soil cap.

Optional Excavations. Additional non-hot spot, non-RCRA hazardous soils may be excavated as needed for site redevelopment (e.g., footings, rights-of-way), although the excavation of these soils is not a requirement of DEQ's selected remedial action. It is not feasible, as a matter of cost reasonableness, to remove this volume of soils. For all redevelopment activities that involve potential exposure to contaminated soils, such as excavation and construction, the health and safety protocols specified in Table 5-2 will be implemented. Where construction workers are in contact with soils exceeding RBCs for the construction worker scenario, the protocols will require appropriate training and methods for reducing exposure. Excavated soils will be managed as described in Table 5-1.

Capping. A cap will be placed in those areas where residual contaminants remain above the RBCs for the urban resident child. For areas not excavated as part of site redevelopment, a soil cap will be constructed in accordance with Table 5-2. For those areas where soil is excavated as part of site redevelopment, residual soil contamination will be evaluated to determine the need for and type of cap required. Proposed buildings, pavement, or other improvements constructed as part of the site redevelopment could be substituted for, or used to augment, parts of the soil cap, with DEQ review and approval. The cap will be installed during, and coordinated with, site redevelopment. If no redevelopment occurs for portions of the site within 15 years from the date of this Record of Decision, these areas will be capped in accordance with Table 5-2.

For costing purposes, it was assumed that, following soil excavation and backfilling, the entire 26-acre site is capped with a 2- to 3-foot layer of clean compacted soil. Capping in this manner will require approximately 126,000 cubic yards of clean, imported fill. The final cap thickness will be determined in the remedial design. Cap design will be consistent with Table 5-2. For park areas where a soil cap is needed, a minimum cap thickness of 3 feet will be used, and playground areas will require a minimum thickness of 5 feet. For all other areas requiring a soil cap, a minimum thickness of 2 feet will be used. A demarcation layer, such as a geomembrane, will be placed underneath the cap for the purposes of separating residual contaminants from the clean cap materials. Following cap placement and compaction, the cap will be vegetated. Periodic inspections and maintenance (e.g., mowing grass) will be performed to ensure cap integrity.

Engineering and Institutional Controls. Fencing and/or other site security measures will be installed and maintained for all areas where a cap is required but not yet constructed to prevent public access to the site and minimize exposure to site contaminants at levels exceeding RBCs for the urban resident child. Additional engineering controls, such as storm water control or erosion control measures, will be required as necessary to protect the cap and/or prevent releases of contaminants from the site.

An Inspection and Maintenance Plan specifying the long-term inspection and maintenance requirements for the cap and other engineering controls will be prepared for DEQ review and approval as part of the remedial design phase of work.

Institutional controls will include deed restrictions to prevent disturbance of the cap, address notification of site hazards, and ensure proper controls are implemented during future site activities. Deed restrictions would restrict activities, operations, or uses that

would damage or interfere with the integrity of the cap, or disturb residual soil contamination. Deed restrictions would also require the long-term maintenance of the cap and other engineering controls, and provide notification of site hazards. Removal or destruction of the cap or disruption of the residual soil contamination would be cause for initiating additional remedial actions to achieve protective levels. The deed restrictions would also require prior notification to DEQ of any significant changes in site redevelopment plans or changes in site ownership or land use, and if such events occurred, may require an evaluation of the need for further remedial action of all contaminated media to achieve appropriate health-based protective levels. The deed restrictions will run with the land and will be enforceable to all current and future owners of the site.

Additional institutional controls will include establishing protocols for excavating, handling, managing, and disposing contaminated soils during site redevelopment to protect construction workers, public health, and the environment. A Soils Management Plan will be prepared for DEQ review and approval prior to site redevelopment and at a minimum, will include the following components:

- Health and safety protocols satisfying applicable federal and state OSHA requirements to address the potential exposure to soil contaminants by construction workers during excavation or other construction activities.

- Storage, treatment, and disposal protocols for excavated contaminated soils consistent with all requirements of this Record of Decision.

Cost Estimate. The cost estimate for the DEQ selected remedial alternative for soils, which includes the removal of approximately 13,200 cubic yards of contaminated soil, is $4,557,000. This cost estimate is based on the cost estimate for Soil Alternative 2 as provided in the *Final Feasibility Study Report.*

7.2.2 Selected Remedial Action for Groundwater and LNAPL

The selected remedial action for groundwater and LNAPL, which is based on elements of Alternatives 2 and 3, includes the following:

- Continued operation of the existing LNAPL recovery system, with the conductance of a performance evaluation to determine if system upgrades and/or expansion are feasible.

- Investigation and evaluation of the Tanner Creek sewer and backfill as a potential contaminant migration pathway to the Willamette River with contingencies for mitigating the contaminant migration.

- Groundwater monitoring.

- Institutional controls.

The existing LNAPL recovery system would continue to operate with the objectives of removing LNAPL from the subsurface within a reasonable timeframe and preventing LNAPL migration into the Tanner Creek sewer and backfill. Extracted groundwater and LNAPL would be treated on-site and discharged either to the Willamette River under an NPDES permit or to the sanitary sewer system under a pretreatment permit. A system performance evaluation would be conducted as part of the remedial design phase to determine the feasibility of upgrading and/or expanding the LNAPL extraction and treatment system to enhance the LNAPL recovery efforts, such that the time to achieve asymptotic recovery levels is minimized. If the results of the performance evaluation show that it is feasible to upgrade and/or expand the existing LNAPL recovery system to achieve this objective, then a design and implementation plan for system upgrades/expansion would be submitted to DEQ for review and approval.

LNAPL recovery efforts may cease when, upon concurrence by DEQ, (1) LNAPL recovery rates decrease such that it no longer becomes cost-effective to operate the system and alternative LNAPL recovery strategies have been examined, or (2) development plans force abandonment of the system. If either of these situations occurs and LNAPL migration into the Tanner Creek sewer is still continuing, such that contaminants pose a threat to the Willamette River water and sediment quality, then contingency measures will be evaluated and implemented as feasible. Contingency measures will remove LNAPL to the extent practicable and prevent further migration of LNAPL into the Tanner Creek sewer. These contingency measures may include soil/LNAPL excavation, LNAPL extraction/treatment, or containment technologies.

An investigation of LNAPL and dissolved-phased contaminant migration into the Tanner Creek sewer and sewer backfill would be conducted during the remedial design phase. If migration is occurring, mitigative measures would be evaluated for feasibility, such as those previously described for Groundwater Alternatives 2 and 3 including hydraulic containment, in-situ treatment, and sealing of the sewer pipe and sewer backfill material. A design and implementation plan for feasible mitigative measures would be submitted to DEQ for review and approval.

A groundwater monitoring program would be implemented to track the dissolved constituent levels approaching the Willamette River and verify effectiveness of the LNAPL recovery system. The groundwater monitoring program would be designed to evaluate contaminant concentrations and migration, source removal, the effectiveness of the remedial actions, and the protection of beneficial uses of groundwater and surface water. Another objective of the groundwater monitoring program would be to verify results of the fate and transport modeling conducted as part of the groundwater beneficial use assessment and the hot spot determination for groundwater.

A Groundwater Monitoring Plan detailing monitoring points, parameters, and frequency would be developed as part of the remedial design phase. The groundwater monitoring program would be reassessed at least every 5 years to determine if the monitoring program should be supplemented or modified. Groundwater monitoring would be conducted until it can be demonstrated to DEQ that the remedy remains protective of human health and the environment.

Institutional controls would be implemented to include the establishment of site development protocols to address potential exposure to contaminated groundwater. Site development protocols would notify contractors and utilities that groundwater may be contaminated and that, if encountered, groundwater should be managed in a manner which minimizes worker exposure and environmental releases, and meets applicable laws and rules regarding disposal. Specific options for on-site and off-site treatment and disposal of contaminated groundwater would be specified in the protocols.

The estimated cost for the DEQ selected remedial action for groundwater and LNAPL ranges between $861,229 and $956,047, and is based on the cost estimates provided in the *Final Feasibility Study Report* for Groundwater Alternatives 2 and 3.

7.2.3 Periodic Reviews and Contingency Measures

DEQ will conduct periodic reviews of the remedy to ensure that the remedial action remains protective of present and future public health, safety, and welfare, and the environment. Periodic reviews will be conducted at least every 5 years and will include the evaluation of site monitoring data, progress reports, inspection and maintenance reports, land and beneficial water uses for the site and site vicinity, compliance with institutional controls, and any other relevant information. Groundwater monitoring results will be evaluated to confirm the following: (1) LNAPL and dissolved-phase contaminants are not migrating to the river and creating a significant adverse effect on beneficial uses of water as defined by OAR-340-122-0115(50), (2) dissolved contaminant concentrations are not significantly increasing over time; (3) LNAPL volumes are decreasing over time; and (4) the estimated groundwater contaminant flux to the river is decreasing.

DEQ may require the implementation of contingency measures in the event that the evaluation of groundwater monitoring data show contaminant levels have significantly increased or are migrating to the river, and pose imminent threats to human health and the environment, or that RAOs are not otherwise being attained. Contingency measures will, at a minimum, prevent further migration of contamination and may include one or a combination of the following: (1) in-situ treatment; (2) natural attenuation; (3) engineering controls, including containment technologies; (4) institutional controls; and (5) additional monitoring.

Contingency measures may also be required in the event that any component of the soil remedy is compromised such that the remedy no longer meets the protection standard, or that RAOs are not otherwise being satisfied. Contingency measures for contaminated soil will prevent exposure to soils exceeding acceptable risk levels and may include one or a combination of the following: (1) excavation, treatment and/or disposal; (2) in-situ treatment, (3) engineering controls; (4) institutional controls.

7.3 SATISFACTION OF PROTECTION AND FEASIBILITY REQUIREMENTS

7.3.1 Protectiveness

The selected remedial action is protective of human health and the environment. The selected remedial action achieves acceptable levels of risk, as defined by OAR-340-122-0115, as demonstrated by a residual risk assessment conducted as part of the *Final Feasibility Study* (ThermoRetec, July 1999). The residual risk assessment included a quantitative assessment of the risk resulting from concentrations of untreated waste or treatment residuals remaining at the site at the conclusion of treatment and excavation and off-site disposal activities, and a qualitative assessment of the adequacy and reliability of engineering and institutional controls. The selected remedy for soil achieves protection through a combination of excavation, treatment and/or off-site disposal of contaminated soils, engineering controls, and institutional controls. The selected remedy for groundwater achieves protection through treatment, engineering controls, and institutional controls.

7.3.2 Balancing Factors

The selected remedial actions for soil and groundwater are based on a balance of effectiveness, long-term reliability, implementability, implementation risk, and reasonableness of cost, as described in Sections 6.2 and 6.3. As discussed in Section 6.4.1, Soil Alternative 2 provided the best balance of these factors. For the groundwater remedy, Alternatives 2 and 3 provided the same level of balance with respect to these factors, as described in Section 6.4.2.

7.3.3 Remediation of Hot Spots

The selected remedial action remediates hot spots of contamination to the extent feasible. Soil hot spots are excavated, treated at an off-site facility, and then appropriately disposed, consistent with ORS 465.315(1)(e) and OAR 340-122-0070 through 0090. LNAPL is also extracted, treated, and appropriately disposed.

8 PUBLIC NOTICE AND COMMENT

DEQ's proposed remedial action for the site was presented in the *Staff Report for Recommended Remedial Action for Hoyt Street Railyard, Portland, Oregon*, dated January 1, 2000. This Staff Report and supporting documentation of the Administrative Record were made available for public review and comment from January 1 through March 31, 2000, at DEQ's Northwest Region Office in Portland.

Pursuant to ORS 465.320 and OAR 340-122-0100, DEQ issued a public notice on January 1, 2000, requesting public comment on the recommended remedial action. The public notice was published in the Secretary of State's Bulletin and *The Oregonian* newspaper on January 1, 2000, announcing the availability of the DEQ Staff Report and Administrative Record for public review during a 45-day comment period. On January 4, 2000, DEQ also mailed copies of the DEQ Staff Report to interested parties for review and comment. At the request of interested parties, DEQ extended the public review and comment period through March 31, 2000. An additional public notice was published in Secretary of State's Bulletin and *The Oregonian* on March 1, 2000, announcing the extension of the public review and comment period. A public meeting was not requested during the comment period.

DEQ issued a news release on January 20, 2000, briefly describing DEQ's proposed cleanup plan and announcing the public review and comment period. A second news release was issued on February 29, 2000, announcing the extension of the public comment period. DEQ also prepared a 15-page fact sheet summarizing the proposed remedial action entitled, *Proposed Cleanup Plan for the Hoyt Street Railyard*, which was also made available to the public on DEQ's web site.

Written comments were received from Burlington Northern Sante Fe Railway Company, Hoyt Street Properties, the City of Portland, and Portland Development Commission. These comments were considered in the preparation of this Record of Decision. Comments are summarized and addressed in Appendix A, Responsiveness Summary.

9 DOCUMENTATION OF SIGNIFICANT CHANGE

DEQ's original proposed remedial action for the site was presented in the *Staff Report for Recommended Remedial Action for Hoyt Street Railyard, Portland, Oregon,* dated January 1, 2000. Changes that were made to the proposed remedial action in response to public comments and interim removal measures performed since the Staff Report are described below.

Remedial Alternative for Soils. The proposed soil remedial alternative presented in the Staff Report did not include the requirement to remove contaminated soils in utility corridors that exceeded the construction worker RBCs. This requirement was a component of Soil Alternative 2 as provided in the *Final Feasibility Study Report.* However, DEQ proposed in the Staff Report that institutional controls would be protective and feasible for construction worker exposures. For future maintenance work after development of the property in rights-of-way, which includes the utility corridors, DEQ determined that the future maintenance worker was the appropriate exposure scenario with which to evaluate risks and establish protective cleanup levels (Section 4.2). The results of the baseline risk assessment showed that there were no unacceptable risks to the future maintenance worker from exposures to either individual or multiple carcinogens in contaminated media at the site. Therefore, the requirement to remove soils in utility corridors to protect future maintenance workers was not necessary to satisfy the protectiveness criterion.

DEQ received comments from the City of Portland regarding concerns about protection of city maintenance workers due to potential exposure to residual contamination in the rights-of-way. The city also had concerns about management of residual contaminated soils. In consideration of these comments, and findings in the *Final Feasibility Study Report* that showed it was feasible to remove contaminated soils in utility corridors exceeding the construction worker RBCs, the requirement to remove contaminated soils in the utility corridors exceeding the construction worker RBCs is now a component of DEQ's selected remedial action for soils.

Hot Spot Removal. In April 2000, BNSF conducted an interim removal action under DEQ oversight that involved the removal of 68 cubic yards (95 tons) of soils in the hot spot area delineated in Figure 7-1. Confirmation sampling results showed that PAH concentrations remaining in soils in this area are less than hot spot levels. Excavated soils were treated at an off-site thermal treatment facility, TPS Technologies in Portland, Oregon. The excavation was backfilled with clean soil. A description of the hot spot removal, including analytical results, is provided in the *Completion Report for PAH Hot Spot Removal, Former Hoyt Street Railyard, Portland, Oregon* (ThermoRetec, August 2000).

Institutional Controls. On December 12, 2000, a License and Declaration of Restrictions was recorded in Multnomah County property records for Lots 1 and 2 of the Hoyt Street site, implementing the institutional controls required by the Staff Report and this Record of Decision, and including hazard notice, restricting groundwater use, prohibiting certain surface uses, and requiring maintenance of the cap. The deed restriction was recorded with DEQ's approval before issuance of this Record of Decision in order to ensure that the

requirements for institutional controls and DEQ access were made part of real property records before the impending sale of interests in the property to multiple purchasers of condominium units.

10 FINAL DECISION OF THE DIRECTOR

The selected remedial action for soils, groundwater, and LNAPL at the former Hoyt Street Railyard site is protective of present and future public health, safety and welfare, and of the environment; is based on the balancing of the remedy selection factors, and remediates hot spots of contamination to the extent feasible. The selected remedial action, therefore, satisfies the requirements of ORS 456.315 and OAR 340-122-0040 and 0090. The detailed evaluation of how the selected remedial action meets the regulatory requirements is provided in Section 7.3.

10.1 DEQ SIGNATURE

Lydia Taylor

12/15/00

Lydia Taylor, Deputy Director
Department of Environmental Quality

Date

APPENDIX A

RESPONSIVENESS SUMMARY

Record of Decision
Hoyt Street Railyard

This section summarizes and responds to written comments received by DEQ during the public comment period from January 1 through March 31, 2000, regarding the DEQ *Staff Report for Recommended Remedial Action for Hoyt Street Railyard, Portland, Oregon,* dated January 1, 2000. Comments were received from Burlington Northern Santa Fe Railway Company, Hoyt Street Properties, City of Portland, and the Portland Development Commission.

COMMENTS FROM BURLINGTON NORTHERN SANTA FE RAILWAY CO.

Comment #1: In Table 5-1, thermal treatment should be included as an option for soil category HS-1.

Response: DEQ agrees and has added this option to Table 5-1.

Comment #2: Regarding Table 5-1 and the requirement for soils to meet the TPH standard defined by the Level 1 Soil Matrix Cleanup Standards (OAR 340-122-0335) for off-site disposal or reuse of nonhazardous soils (OFF soils), BNSF has concerns that this requirement may be too restrictive in some cases. Industrial fill opportunities may be identified that would classify as Level 2 using the soil matrix. In this case, disposal of soil with TPH as diesel to 500 ppm (mg/kg) would be protective. Alternatively, leaching tests could also be conducted to demonstrate that, in certain circumstances, leaching to groundwater would not present a risk. Also, recognizing that the remedial action may continue for up to 15 years, new methods for evaluating hydrocarbon leachability and associated risks may become acceptable to DEQ within that timeframe. BNSF would like the flexibility to use current regulation and guidance without formally modifying the ROD.

Response: DEQ's Solid Waste Program requires that contaminated soils to be used off-site for industrial fill meet the Level 1 Soil Matrix Cleanup Standards (OAR 340-122-0335). Higher concentrations of TPH contaminants in soils may be allowed for off-site reuse, i.e., Level 2 or Level 3 standards, if it can be demonstrated that the off-site location to receive the soil meets the appropriate Level 2 or Level 3 conditions of OAR 340-122-0325 to 0335. DEQ may also consider alternative TPH concentrations if it can be demonstrated through the conductance of leaching tests, that leaching of contaminants to groundwater would not present a risk. The use of TPH levels other than Level 1 Soil Matrix Cleanup Standards for off-site reuse of soils is subject to DEQ approval and may require a Letter of Authorization from DEQ's Solid Waste Program. Table 5-1 has been revised to include these conditions for acceptance of alternative TPH standards for off-site soil reuse.

APPENDIX A
RESPONSIVENESS SUMMARY

COMMENTS FROM PORTLAND DEVELOPMENT COMMISSION.

Comment: The cost estimates of the soil alternatives in the Staff Report are not realistic and do not include costs for developing the property such as construction costs for building foundations, pile caps, over-excavation, utility trenches, and basements.

Response: The cost estimates provided in the Staff Report for the soil alternatives were based on remediation costs to achieve a protective remedy and are consistent with OAR 340-122-0090(3)(e) and DEQ's *Final Guidance for Conducting Feasibility Studies*, July 1998. Site development plans, to the extent they were available at the time the feasibility study report was prepared, were considered in the risk assessment and in the evaluation of the alternatives. However, site development activities unnecessary to achieve a protective remedy are not required to be considered in the cost estimates of the remedial alternatives.

COMMENTS FROM HOYT STREET PROPERTIES (HSP).

Comment #1: Remedial action cost estimates in the Staff Report contain uncertainties and inaccuracies, and urged DEQ to include disclaimers in the Record of Decision (ROD) regarding the cost estimates.

Response: DEQ agrees that the costs evaluated in the Staff Report are estimates only and that actual remedial costs might differ. Consideration of costs is a comparative exercise, performed for the purpose of evaluating the proportionality of costs of a remedial alternative to its human health and environmental benefits and to compare the relative likely expense of different remedial alternatives. This is apparent from the face of DEQ's cleanup rules, OAR 340-122-0090(3) and (4), and in the Record of Decision (ROD) itself (Section 6). An express disclaimer to this effect is not necessary in the ROD.

DEQ disagrees that the Staff Report contained material inaccuracies. Many of the areas where HSP asserts that DEQ underestimated costs pertain to work beyond that required by the ROD (e.g., management of excavated soils, 5 feet of soil cap instead of 2 to 3 feet). Another potential cost is for contingency measures to remediate the LNAPL pool, should they be triggered. HSP is correct in noting that these costs were not estimated. That is because the nature and expense of these contingency measures will be evaluated in the future if and when they become necessary. Such costs would be common to any groundwater alternative in any event.

DEQ acknowledges that the source of the cost estimates in the ROD is the *Final Feasibility Study*. However, DEQ disagrees that these cost estimates were not independently evaluated. DEQ evaluated and verified the cost estimates during the review and approval process for the *Final Feasibility Study Report*. DEQ determined that the cost estimates were reasonable and that the development of these cost estimates was consistent with OAR 340-122-0090(3)(e) and DEQ's *Final Guidance for Conducting Feasibility Studies*, July 1998.

Comment #2: The recommended soil alternative as proposed in the DEQ Staff Report is not feasible or implementable and does not address the City of Portland's requirement for removal of contaminated soils in the upper 5 feet in the rights-of-way.

Response: The selected remedial action for soils as described in the ROD now includes the removal of contaminated soils in utility corridors that exceed the construction worker RBCs. Although DEQ continues to believe that excavation of contaminated soils in the rights-of-way that do not exceed the future maintenance worker RBCs is not necessary to provide protection for future maintenance workers, the feasibility study report had determined that it was feasible to excavate soils in the utility corridors that exceeded the construction worker RBCs.

HSP's comment that the soils remedy would not be feasible or implementable appears to be primarily based on the specifications for development of the site that HSP states are required by its development agreement with the City of Portland. DEQ, following its cleanup rules, factored the intended development of the site for high-density mixed use into its determination of future likely land uses, the assessment of risk posed to site residents and construction and maintenance workers, and the selection of a remedy protective under those exposure scenarios. That remedy is feasible and implementable—the excavation of certain soils has already occurred; the construction of a cap consisting of soils, buildings, and other site improvements poses no engineering difficulty; and worker protocols are capable of design, administration, and monitoring.

Site development activities such as excavations, buildings, and parking lots may serve as components of a remedy. Moreover, DEQ will review remedial design proposals incorporating development specifications to ensure they are consistent with the ROD. However, DEQ does not direct property owners how to specifically develop their property. Therefore, in its remedy decisions DEQ does not require measures beyond those necessary to implement the remedy, and will not prescribe, using this instance as an example, the construction of soil caps thicker than necessary for the remedy, or the excavation and disposal of soils that are unnecessary when institutional controls will be in place. DEQ believes that, consistent with its statutory charge, its selected remedy for the Hoyt Street Railyard will enable desired development of the site that is also protective of human health and the environment, without dictating any particular development plan.

Comment #3: The Staff Report underestimates the cost of off-site disposal. Thermal treatment may not be an available disposal option.

Response: The cost estimates for soil treatment and disposal options contained in the Staff Report were based on cost estimates provided in the *Final Feasibility Study Report.* DEQ reviewed these cost estimates and determined that they were reasonable. The use of thermal treatment for excavated soils is still an available option. For the soil hot spot removal conducted by BNSF in April 2000, excavated soils were transported to the TPST Soil Recyclers thermal treatment facility in Portland for treatment and disposal.

Comment #4: The existing LNAPL recovery system does not appear to be capable of remediating the LNAPL pool within a reasonable timeframe.

Response: The existing LNAPL recovery system was installed and operated as an interim removal measure to address immediate threats to the Willamette River as a result of migration of LNAPL into the Tanner Creek sewer. As an interim removal measure, the objective of the LNAPL recovery system was to prevent further migration of LNAPL into the Tanner Creek sewer. The objective of recovering LNAPL from the subsurface within a reasonable time frame was not specifically defined. The periodic progress reports submitted to DEQ have demonstrated that the objective of preventing LNAPL migration has been consistently attained.

DEQ does recognize that the scope and objectives of LNAPL recovery system should now be broadened beyond that of an interim removal measure to include removal of LNAPL within a reasonable time frame to the extent feasible. The selected remedial action for groundwater includes the requirement to conduct a system performance evaluation to determine the feasibility of upgrading and/or expanding the existing LNAPL recovery system to enhance recovery efforts such that the time to reach asymptotic recovery levels is minimized, and implementation of those system upgrades/expansions if feasible.

Comment #5: The Staff Report does not provide an estimate of the cost of the recommended remedial alternative for groundwater and does not account for costs for contingency measures for LNAPL recovery.

Response: The estimated costs for the selected remedial action for groundwater have been added to the Record of Decision. The estimated cost for the groundwater remedial action ranges between $861,229 and $956,047, which were the estimated costs for Groundwater Alternatives 3 and 2, respectively, as provided in the *Final Feasibility Study Report.* The selected remedial action for groundwater also includes a system performance evaluation to determine if the LNAPL recovery system upgrades and/or expansion are feasible and contingency measures for addressing LNAPL migration.

These costs were not estimated at this time as it is not known if these additional measures would be required. The scope, nature, and costs of these contingency measures will be evaluated in the future if and when they become necessary.

Comment #6: Two comments suggested changing text language in Section 3.2.1 of the Staff Report to state that free LNAPL was encountered in two test pits, one in the historic fueling area, and one in the general petroleum area.

Response: The text has been modified in the ROD to indicate that free LNAPL was observed in a test pit in the General Petroleum area and that free or residual LNAPL was observed in a test pit in historic fueling area.

Comment #7: Two comments suggested changing text language in Sections 3.2.2 and 3.3 to indicate that the deep sewers provide potential pathways for migration of dissolved-phase and free-phase contaminants.

Response: DEQ agrees and has modified the text in these sections of the ROD accordingly.

Comment #8: Two comments suggested modification to the text in Section 5.1 to indicate that the site grade will be raised by several feet in elevation as part of development of the property and that references to site grade, such as that included in the requirement for capping, be to the post-development site grade rather than existing grade as provided in the Staff Report.

Response: DEQ acknowledges that the site will be raised by several feet as part of the site development. However, DEQ does not agree that the requirement for capping should be based on the post-development grade. DEQ evaluated risks to receptors and developed subsequent protective risk-based cleanup concentrations based on exposures to contaminants at and below the existing, pre-development site grade. To address unacceptable risks to future residents, the ROD requires capping in areas where residual contaminants exceed the RBCs for the urban resident child. The RBCs for this receptor apply to the upper 5 feet of soil relative to the existing grade. The ROD assumed that the cap would be constructed with 2 to 3 feet of clean, compacted soil, above existing grade, and recognized that proposed buildings, pavement, or other improvements constructed as part of the site development could be substituted for, or used to augment, parts of the soil cap. DEQ considers raising of the existing grade to be part of the cap. Unless otherwise specified, references in the ROD to site grade are based on existing, pre-development grade.

Comment #9: Modify the text in Section 5.1.2 to indicate that capping material may include the reuse of onsite soil meeting the urban resident child RBCs.

Response: The paragraph that was referenced for a suggested modification was describing the assumptions of the capping cost estimate, which was 126,000 cubic yards of imported clean fill. This section does not specify requirements for the cap design and does not require modification. Section 7.2 of the ROD, with a reference to Figure 5-2, specifies requirements for the cap design based on block use and appropriate RBCs.

Comment #10: Modify the text in Section 5.1.2 for Alternative 3 to indicate that water generated as part of formation dewatering during deep soil excavations, may also be disposed by reinfiltration on the site along with stormwater, if it does not require treatment to remove LNAPL.

Response: This section describes Soil Alternative 3 from the feasibility study report, which was not selected as DEQ's remedial action for soils. This section does not require modification.

Comment #11: Modify the OFF-2, 3, and 4 soil categories in Table 5-1 to indicate that the Soil Matrix Cleanup Standard that must be met for each category depends upon the matrix score for the proposed offsite industrial fill site.

Response: DEQ's Solid Waste Program requires that contaminated soils to be used off-site for industrial fill meet the Level 1 Soil Matrix Cleanup Standards (OAR 340-122-0335). Higher concentrations of TPH contaminants in soils may be allowed for off-site reuse, i.e., Level 2 or Level 3 Soil Matrix Cleanup Standards, if it can be demonstrated that the off-site location to receive the soil meets the appropriate Level 2 or Level 3 conditions of OAR 340-122-0325 to 0335. DEQ may also consider alternative TPH concentrations if it can be demonstrated through the conductance of leaching tests, that leaching of contaminants to groundwater would not present a risk. The use of TPH levels other than Level 1 Soil Matrix Cleanup Standards for off-site reuse of soils is subject to DEQ approval and may require a Letter of Authorization from DEQ's Solid Waste Program. Table 5-1 has been revised to include these conditions for acceptance of alternative TPH standards for off-site soil reuse.

Comment #12: Regarding Table 5-2, Park Use, Design Description; clarify the cap design description for the park areas.

Response: DEQ agrees that the descriptions for the cap designs in the park areas was confusing and has modified this table in the ROD. The modifications have eliminated the description of the second cap design option and revised the first option to state that in the park areas, the cap will consist of a minimum of 3 feet of soils, with a minimum of 5 feet of soils in playground areas, that are less than RBCs for the urban resident child (URC). A demarcation or identifier layer will be placed below the soil cap to separate underlying soils that exceed the URC RBCs. It should be recognized that the intent of this table is to provide a conceptual design for the cap and that the detailed cap design

will be developed as part of the remedial design phase of work; subsequent to the issuance of the ROD.

Comment #13: Regarding Table 5-2, Park Use, Maintenance; clarify if there are any soil types other than those exceeding the excavation worker (future maintenance worker) RBCs that must be noted and included in the construction records.

Response: DEQ does not anticipate that other soil types would need to be recorded in the construction record at this time.

Comment #14: Modify the first sentence in Section 6.2.2, Effectiveness, to include off-site disposal of hot spots.

Response: The existing text in the Staff Report already includes this statement and does not require modification in the ROD.

Comment #15: Modify text in Sections 6.2.2 and 6.2.3 regarding the discussions on "Treatment of Hot Spots", to indicate that excavated hot spot areas may be backfilled with soils that do not exceed the URC RBCs.

Response: Text in these sections have been modified in the ROD to include that the backfill may include soils that do not exceed the URC RBCs.

COMMENTS FROM CITY OF PORTLAND.

Comment #1: The City stated that it does not believe that the DEQ Recommended Remedial Action in the Staff Report meets regulatory requirements addressing protectiveness and feasibility due to concerns with protection of their maintenance worker health and safety and assumption of responsibility and costs for the management of contaminated soils excavated during utility maintenance work. The City supports the selection of Alternative 2 for implementation at the Hoyt Street Railyard as described in the Staff Report (Section 5.1.2) without the modification recommended by DEQ in Section 7.1.1, and with the requirement for excavation and disposal of contaminated soils in the public rights-of-way. The recommended alternative in the Staff Report, without adequate justification, modifies Alternative 2 to eliminate the excavation of some contaminated soils in utility corridors within the public right-of-way. Alternative 2 should be modified in response to the City's specific comments regarding (1) management of residual risk; (2) exposure-specific information; (3) storage, transportation, and disposal of excess utility trench excavation spoils; and (4) further characterization of the sources of contamination in the area of Tanner Creek sewer line project. Alternative 2, as initially described in the Staff Report, but with further modification, could satisfy the regulatory requirements for a remedial action.

Response: DEQ maintains that the recommended remedial action as described in Section 7 of the Staff Report satisfies *all* requirements of OAR 340-122-0090 for the selection or approval of a remedial action. DEQ determined that the recommended remedial action was protective, as specified in OAR 340-122-0040 for all receptors, including future maintenance workers, potentially exposed to contaminants at the site.

In DEQ's Staff Report, the recommended remedial action for soils was derived from Soil Alternative 2 of the feasibility study report, although the DEQ recommended remedial action did not require the additional excavation of contaminated soils in utility corridors that exceeded the RBCs for the construction worker. This element was not a required component of DEQ's recommended remedial action as protectiveness could be achieved through institutional controls. However, the feasibility study report had determined that the excavation and off-site disposal of an estimated 5,400 cubic yards of soils exceeding construction worker RBCs in the utility corridors was feasible. Upon further consideration by DEQ, and to address some of the City's concerns DEQ has included the excavation of those soils in the utility corridors that exceed the construction worker RBCs in the selected remedy of the ROD. Additional details on this requirement are provided in Section 7.1.1 of the ROD. The removal of these additional soils from the utility corridors reduces the residual risk, if any, to future maintenance workers.

DEQ does not agree that the excavation and disposal of all contaminated soils within the public rights-of-way is necessary to satisfy regulatory requirements for a remedial action. DEQ's proposed remedy was not modified to include the requirement of excavation and disposal of all contaminated soils within the public rights-of-way. However, as stated previously, the DEQ selected remedy has included the excavation of soils exceeding the construction worker RBCs in the utility corridors.

Comment #2: Risks to the City's utility maintenance worker were not evaluated and consequently, an appropriate remedy to address potentially unacceptable risks to these workers was not developed and evaluated.

Response: DEQ evaluated risks to several receptors, including future maintenance workers in rights-of-way. DEQ determined that the exposure assumptions developed for an excavation/trench worker as provided in DEQ's *Guidance for Conduct of Deterministic Human Health Risk Assessments* (DEQ, December 1998) were representative of the future (after development) maintenance workers who could potentially be exposed to site contaminants in the rights-of-way. The *Final Feasibility Study Report* (RETEC, July 1999) showed that there were no unacceptable risks to these receptors due to exposure to TPH and PAH contaminants at the site. The total cumulative risk to the future maintenance worker due to exposures (ingestion, inhalation, and dermal) to TPH and PAHs in soils was 7×10^{-7}, which meets the acceptable cumulative risk level as defined by OAR-340-122-0115(3) for exposure to multiple carcinogens of 1×10^{-5} or less. DEQ has clarified the text in the ROD to indicate that the excavation/trench worker

scenario is representative of the future maintenance worker and that there are no unacceptable risk to this receptor from exposure to TPH and PAH contaminants in soils.

The risks from exposures to lead in soils at the site to all receptors, including the future maintenance worker, could not be quantified due to the unavailability of toxicity data with which to calculate estimates of the noncarcinogenic and carcinogenic risks. Instead, DEQ determined that the use of EPA policy and guidance was appropriate for determining action levels for lead in site soils. The action level for lead of 2,000 mg/kg was established in the ROD for both the construction worker and future maintenance worker receptors at the site. Only one area on the site in the former battery servicing area has shown lead concentrations in soils exceeding the action level of 2,000 mg/kg (see Figure 3-5 of the ROD). The ROD requires the removal of soils in this area that exceed the TCLP-lead criteria of 5.0 mg/L. It was estimated that 1,100 cubic yards of this soil could potentially exceed the TCLP-lead criteria, although additional testing will be conducted to better define this volume estimate. The removal of soils exceeding the TCLP-lead criteria will most likely address the majority of the soils exceeding the action level of 2,000 mg/kg. The additional requirement of the ROD to remove soils in the utility corridors that exceed the construction worker RBCs will address those remaining soils exceeding the lead action level of 2,000 mg/kg. Upon completion of these soil excavations, residual lead concentrations in soils within the utility corridors are not expected to exceed the construction worker and future maintenance worker RBC for lead.

The recommended remedial action was developed to provide protection for those receptors whose exposure to site contaminants would result in an unacceptable risk. Since the baseline risk assessment determined that there were unacceptable risks to future residents, both children and adults, and construction workers during site development, and acceptable risks to future utility maintenance workers, the requirement for the recommended remedial action is based on the need to provide protection to the residential and construction worker receptors. The recommended remedial alternative for soils includes not only capping of residual contamination, but the removal of hot spots and TCLP-lead soils, other engineering controls, and institutional controls including health and safety protocols for construction workers. In response to City comments, the ROD has been clarified to further describe those protocols and how they would be protective and feasible to implement. DEQ also notes the City's comment that it currently provides extensive health and safety training and other protections for deep-trench maintenance workers.

The risk evaluation for exposure to PAH and TPH contaminants in soils showed that there are no unacceptable risks to the future maintenance worker. Upon completion of the required soil removal activities in the former battery servicing area, residual soil concentrations of lead will be below the future maintenance worker RBC. Therefore, there is no additional requirement for remedial measures to protect this receptor.

DEQ would like to further clarify that the engineering and institutional controls specified in the ROD are necessary to protect the residential and construction worker receptors from residual contaminants that remain at the site. DEQ determined that these engineering and institutional controls were not necessary to protect the future maintenance worker, as residual risk was already at acceptable levels for this receptor. Therefore, the evaluation of engineering and institutional controls with respect to the balancing factors of OAR 340-122-0090(3) was applicable to the residential and construction worker receptor but was not required for the future maintenance worker.

Comment #3: The Staff Report did not take into account appropriate relevant information about land use that should be considered to properly characterize the facility and assess risks to human health.

Response: Current and reasonably likely future land uses in the locality of the facility were identified, evaluated, and incorporated into the remedial investigation, baseline human health risk assessment, and feasibility study consistent with OAR 340-122-0080, -0084, and -0090, and DEQ guidance. Current and reasonably likely future land uses were identified for the site, taking into account zoning codes, land use designations, and adopted comprehensive plans. Based on the identified current and reasonably likely future land uses for the site, relevant exposure scenarios were identified and developed for subsequent evaluation of risks to human health in the baseline human health risk assessment.

Comment #4: The Staff Report did not take into consideration or properly evaluate residual risk as required by OAR 340-122-0084(4).

Response: A residual risk assessment was conducted as part of the feasibility study consistent with OAR 340-122-0040(4). Results of this evaluation were documented in the *Final Feasibility Study Report* (RETEC, July 1999). The residual risk assessment demonstrated to DEQ's satisfaction that, through implementation of the recommended remedy, acceptable levels of risk for all site receptors would be attained in the locality of the facility.

Comment #5: The Staff Report did not evaluate the adequacy and reliability of institutional controls as required in the residual risk assessment (OAR 340-122-0040(4)).

Response: The residual risk assessment, conducted as part of the *Final Feasibility Study Report* (RETEC, July 1999), qualitatively evaluated the adequacy and reliability of proposed engineering and institutional controls to be used for management of untreated hazardous substances remaining at the facility. The adequacy and reliability of engineering and institutional controls of the proposed remedy were further assessed

through the evaluation of the "effectiveness" and "long term reliability" balancing factors in the Staff Report.

Comment #6: The Staff Report states that the construction of a cap over the entire site minimizes human exposure to residual soils exceeding RBCs. However, the surface of the public right-of-way does not serve as a cap that is protective, effective, or provides long-term reliability because it is frequently cut for utility maintenance and repair activities.

Response: DEQ believes that the cap provides a protective, effective, and reliable measure for minimizing risks for all residential receptors. DEQ is aware that during utility maintenance and repair activities, surfaces are cut to expose potentially contaminated soils that could pose unacceptable risks to these receptors. However, for the residential receptors, DEQ believes that potential exposures to contaminated soils in these situations are low, as access to these work areas by the general public is typically restricted for safety reasons. DEQ recognizes the possibility of short-term risks to the community as a result of exposure to contaminated soils that are excavated from the rights-of-way, stored, and transported off-site. These risks can be mitigated through proper soil management protocols.

The requirement for engineering (cap) and institutional controls is necessary to protect residential and construction worker receptors who could potentially be exposed to residual contaminants in soils. As there is no unacceptable risk to the future maintenance worker, remedial measures specific to this receptor, including additional soil removal and/or institutional controls, were not required to be developed as part of the remedial action. Therefore, the evaluation of engineering and institutional controls with respect to the balancing factors of OAR 340-122-0090(3) was specific to the residential and construction worker receptor was not required for the future maintenance worker.

Comment #7: The Staff Report did not evaluate the implementability of the institutional controls in the rights-of-way. Similarly, the management and long-term logistics of recording and mapping public rights-of-way with residual contamination, and tracking work assignments of utility maintenance workers was not evaluated.

Response: The Staff Report evaluated implementability of institutional controls as they applied to protection of the residential and construction worker receptors in all areas of the site including rights-of-way. As there is no unacceptable risk to the future maintenance worker, remedial measures specific to this receptor, including institutional controls, were not required to be developed as part of the remedial action. Therefore, the evaluation of implementability of institutional controls does not apply to the future maintenance worker.

Comment #8: The Staff Report states that there are potential risks to the community, workers, and the environment associated with the implementation of the recommended alternative if exposure to contaminated soils occurs. As recommended, this alternative would present a risk of exposure to contaminated soils for utility maintenance workers who conduct routine maintenance and repair of subsurface utilities in the public rights-of-way.

Response: The Staff Report did state that there were potential risks to the community, workers, and the environment associated with the implementation of the proposed remedy if exposure to contaminated soils occurred. The statement refers to those workers involved in soil excavation work and site development activities (i.e., construction workers) and not future utility maintenance workers. The Staff Report further stated that site security measures, health and safety protocols, and release control measures will be implemented to reduce these exposure risks. As previously discussed in the response to Comment #2, there are no unacceptable risks to the future maintenance workers associated with exposure to site contaminants. Risks to future maintenance workers from the implementation of the remedial action should, therefore, be acceptable.

Comment #9: The recommended remedy does not provide an analysis nor consider the cost of implementing institutional controls or other factors such as cost of disposal of excavated trench spoils, costs of training and protective equipment for maintenance workers, or the cost of creating and maintaining a record of the location of contaminated soils in the rights-of-way and tracking the exposures of maintenance workers. The recommended remedy results in shifting the costs for disposal of excess soils that are routinely excavated from utility corridors during maintenance and repair activities from the party that caused the contamination to the public. The costs of providing special training and protective equipment, mapping, and managing the assignment of particular employees to specific areas of the public rights-of-way similarly would be shifted from the party that caused the contamination to the public.

Response: The ROD requires excavation of hot spot soils, TCLP-lead contaminated soils, and soils exceeding the construction worker RBCs in utility corridors. Additional soil excavation is not required in the ROD as the risk assessment demonstrated that there were no unacceptable risks to the future maintenance worker due to exposures to contaminated soils. The costs for disposal of excess soils excavated during utility maintenance and repair, and who would pay those costs, are therefore, outside the scope of the ROD. For the same reasons, the costs for providing training and protection for maintenance workers, mapping, and tracking exposures are also outside the scope of the ROD.

The ROD does require the preparation of a Soils Management Plan to address protection of workers, public health, and the environment during site redevelopment. The plan

will include health and safety protocols for construction workers, and protocols for the storage, treatment, and disposal of excavated contaminated soils. The identification of the party who will be responsible for preparing and submitting the Soils Management Plan will be addressed in the consent order or other legal vehicle entered into with DEQ for implementation of the ROD. The identification of the public or private party who will pay for management and disposal of soils excavated for reasons outside the ROD will be determined, DEQ assumes, by laws applicable to that activity or by related contractual undertakings.

Comment #10: The City commented on the exposure assumptions used for the future maintenance worker in the risk assessment. The City stated that their maintenance workers can work up to 5 hours per day in utility corridors, 45 weeks per year, for 20 to 30 years. The future maintenance worker exposure assumptions, on which the recommended remedy was based, are not valid for public and private utility workers.

Response: The City's exposure assumptions are based on the total hours a worker might perform utility maintenance at locations throughout the city over the course of the worker's career. A baseline risk assessment for the future utility maintenance worker was performed, which, in contrast to the City's assumptions, and as required by DEQ's cleanup rules, OAR 340-122-0084, evaluated exposures only to site contaminants of concern in the locality of the Hoyt Street Railyard facility. The cleanup rules do not require that risk assessments include the evaluation of potential exposures for a particular receptor to contaminants outside the locality of the facility.

Comment #11: Table 5-1 of the Staff Report states that for ON-3 soils (i.e., soils below RBCs for future maintenance workers), management options include on-site soil reuse as backfill in areas where subsequent worker contact is infrequent. The City states that a utility maintenance worker's contact with soil in the rights-of-way is not infrequent.

Response: DEQ maintains that the use of the future maintenance worker RBCs is protective for city maintenance workers. However, as previously discussed, the ROD now includes the removal of soils in utility corridors that exceed the construction worker RBCs. Table 5-1 has been modified as appropriate to provide consistency with this requirement.

Comment #12: In Table 5-2 of the Staff Report, the Design Option 2 for rights-of-way includes backfilling with soils that are less than future maintenance worker RBCs and separation by an identifying layer. Under the maintenance components for rights-of-way in the table, there are requirements for recording locations where soils exceed the future maintenance worker RBCs; for soils that are excavated from beneath the cap to be reused as subgrade fill or disposed off-site; and for future excavation work be conducted with appropriately trained personnel if soils at depth exceed the future maintenance

worker RBCs. The table does not designate who, where, or how these elements would be implemented.

Response: The table has been appropriately modified to be consistent with the requirements of the ROD. The design component for rights-of-way has been modified to require that soils used for backfill are less than construction worker RBCs in utility corridors. As previously stated in response to Comment #2, upon completion of the required soil removal activities specified in the ROD, residual soil concentrations are not expected to exceed the future maintenance worker RBCs. The maintenance components of Table 5-2 specific to soils that exceed the future maintenance worker RBCs are not required components of the remedy, but were identified in the table for completeness in the event that soils exceeding the future maintenance worker RBCs are encountered at some future date. The identification of the party who will be responsible for those elements required by the ROD will be addressed in the consent order or other legal vehicle entered into with DEQ for implementation of the ROD. For those elements required by the ROD, the details on implementation of those elements will be specified in subsequent remedial design documents.

Comment #13: The fate of dissolved-phase groundwater contamination is not adequately addressed. The effect of contaminated groundwater on Willamette River sediments needs further definition.

Response: The *Remedial Investigation Report* (RETEC, October 1996) evaluated fate and transport of dissolved-phase contaminants in groundwater. The groundwater remedial alternative in the ROD requires implementation of a groundwater monitoring program to track dissolved-phase contaminants approaching the Willamette River and to verify effectiveness of the LNAPL recovery system. The ROD further requires the implementation of contingency measures in the event that the groundwater monitoring data show contaminants are migrating to the river and posing unacceptable risks to human health and the environment. The ROD also requires the investigation of LNAPL and dissolved-phase contaminant migration into the Tanner Creek sewer and sewer backfill during the remedial design phase of work with implementation of mitigative measures as necessary. Sections 7.1.2 and 7.1.3 describe these requirements in further detail.

Comment #14: Further investigation is needed to evaluate the likelihood that a non-defined contamination plume (dissolved-phase lead, LNAPL) will migrate off-site.

Response: The groundwater remedial alternative in the ROD requires implementation of a groundwater monitoring program to track dissolved-phase contaminants migrating from the site. The ROD further requires the implementation of contingency measures in the event that the groundwater monitoring data show contaminants are migrating to the

river and posing unacceptable risks to human health and the environment. Sections 7.1.2 and 7.1.3 describe these requirements in further detail.

Comment #15: The installation of a recovery system or monitoring wells along the perimeter of the site parallel to NW Naito Parkway is recommended to better define the extent of migration of nonpoint contamination that is escaping treatment.

Response: The ROD requires implementation of a groundwater monitoring program to track dissolved-phase contaminants approaching the Willamette River and to verify effectiveness of the LNAPL recovery system. The ROD also requires the investigation of LNAPL and dissolved-phase contaminant migration into the Tanner Creek sewer and sewer backfill during the remedial design phase of work. The ROD further requires the implementation of contingency measures in the event that the groundwater monitoring data show contaminants are migrating to the river and posing unacceptable risks to human health and the environment. Details on the groundwater monitoring program will be specified in subsequent remedial design documents.

Comment #16: Recent sampling and analysis by the City in an abandoned sewer at NW Quimby Street and NW 11th Avenue revealed high levels of heavy oil and diesel (over 90% free product) and raises concerns about the source of such contamination, which is not delineated in the Retec study that is the basis for DEQ's Staff Report. Because the Tanner Creek sewer line will be constructed in this area, the source of this contamination must be controlled to avoid the migration of free product into the sewer excavation tunnel.

Response: The *Remedial Investigation Report* (RETEC, July 1996) previously identified viscous oil in the sewer near this location, although the specific source could not be determined. DEQ acknowledges that the concerns with the possible migration of viscous oils into the sewer excavation tunnel would be the potential risks to workers due to exposure to the contaminants and the migration of the contaminants to the river, which could pose an unacceptable risk to receptors or create an adverse impacts on beneficial uses of the river. DEQ previously noted that the City implements extensive health and safety protocols for deep sewer workers, and would expect that these protocols be implemented to address potential risks to workers in this area. Additional monitoring of this area will be conducted as part of the groundwater monitoring program to track the potential for off-site migration of contaminants into the river. Should the monitoring data show migration of free product contaminants to the river, contingency measures will be implemented.

APPENDIX B

ADMINISTRATIVE RECORD INDEX

Record of Decision
Hoyt Street Railyard

Site-Specific Documents

Abbott, Michael, February 1989. *Summary Report of Environmental and Geotechnical Problems at Hoyt Street Yard in Portland, Oregon.* Abbott's notes and report.

City of Portland, Bureau of Environmental Services, December 1, 1998. Letter to Jill Kiernan, DEQ, RE: Review Comments/Hoyt Street Feasibility Study.

City of Portland, Office of Transportation, December 1, 1998. Letter to Jill Kiernan, DEQ, RE: BNSF Hoyt Street Railyard – Draft Feasibility Study.

EMCON, June 1998. *Draft Report, Soil Investigation of Four Blocks, Hoyt Street Development, Portland, Oregon.*

EMCON, December 1998. *Phase 2 Soil Investigation Report, Hoyt Street Development, Portland, Oregon* and corresponding Appendices.

Hart-Crowser, October 1990. *Subsurface Exploration and Testing, Glacier Park Company Property, Hoyt Street Railyard, Property Sequence No. 36, Portland, Oregon.*

Hoyt Street Properties, LLC, December 1, 1998. Letter to Jill Kiernan, DEQ, RE: Comments on Draft Feasibility Study.

Mathes, John, and Associates, February 1990. *Phase I Environmental Assessment, Hoyt Street Railyard, Portland, Oregon.*

Portland Development Commission, November 30, 1998. Letter to DEQ Northwest Region, RE: Comments on Draft Feasibility Study for Hoyt Street Railyard.

RETEC, February 1988. *Preliminary Report of the Environmental Conditions at the Hoyt Street Railyard in Portland, Oregon.*

RETEC, June 1992. *Preliminary Assessment Information Package, Hoyt Street Property.*

RETEC, January 1996. *Product Recovery System for the Hoyt Street Property Operations and Maintenance Manual.*

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RETEC, July 1996. *Annual Progress Report for the Hoyt Street Property Containment and Recovery System.*

RETEC, July 1996. *Interim Removal Measures at 9th and Kearney, Burlington Northern Hoyt Street Property.*

RETEC, October 1996. *The Remedial Investigation Report for the Burlington Northern Hoyt Street Site.*

RETEC, March 1997. *Groundwater Beneficial Use Assessment for the Hoyt Street Railyard and Surrounding Area, Portland, Oregon.*

RETEC, July 1997. *Annual Progress Report, Hoyt Street Property Containment and Recovery System.*

RETEC, July 1997. *Operations and Maintenance Manual for the Product Recovery System at the Hoyt Street Property, Addendum 1.*

RETEC, February 1998. *Hoyt Street Property RI/FS Risk Assessment, Portland.*

RETEC, June 1998. *Feasibility Study Scoping Document, Hoyt Street Railyard, Portland, Oregon.*

RETEC, September 1998. *Annual Progress Report, Hoyt Street Property Containment and Recovery System.*

State of Oregon, Department of Environmental Quality, Order on Consent issued to Burlington Northern Railroad, August 16, 1995. DEQ No. WMCSR-NWR-95-08.

State of Oregon, Department of Environmental Quality, March 3, 1999. Letter to Bruce Sheppard, Burlington Northern Santa Fe Railway Company, RE: Hoyt Street Railyard, DEQ Comments on the Draft Feasibility Study.

ThermoRetec, August 31, 1998. *Draft Feasibility Study, Hoyt Street Railyard, Portland, Oregon.* (Draft).

ThermoRetec, December 14, 1998. Letter to Jill Kiernan, DEQ, RE: Preliminary Responses Hoyt Street Properties, LLC, Comments on Draft Feasibility Study.

ThermoRetec, January 5, 1999. Letter to Jill Kiernan, DEQ, RE: Preliminary Responses to City Comments on Draft Feasibility Study.

ThermoRetec, February 10, 1999. Letter to Jill Kiernan, DEQ, RE: Results of Split Soil Samples, HSP Phase 2 Investigation, Former BNSF Hoyt Street Railyard.

ThermoRetec, April 1, 1999. Letter to Jill Kiernan, DEQ, RE: Responses to DEQ Comments on Draft Feasibility Study, Hoyt Street Railyard.

ThermoRetec, April 2, 1999. *Draft Final Feasibility Study, Hoyt Street Railyard, Portland, Oregon.* (Redlined Revised Draft).

ThermoRetec, July 1999. *Final Feasibility Study, Hoyt Street Railyard, Portland, Oregon.* (Approved by DEQ on September 21, 1999).

ThermoRetec, October 1999. *1999 Annual Progress Report, Hoyt Street Property Containment and Recovery System.*

ThermoRetec, August 2000. *Completion Report for PAH Hot Spot Removal, Former Hoyt Street Railyard, Portland, Oregon.* (Approved by DEQ on November 22, 2000).

Regulations

Oregon Revised Statutes, Chapter 459, Solid Waste Management. 1997.

Oregon Revised Statutes, Chapter 465, Hazardous Waste and Hazardous Materials I. 1995 and amended 1999.

Oregon Revised Statutes, Chapter 468B; Water Quality, Public Health and Safety, Water Pollution Control. 1997.

Oregon Department of Environmental Quality (DEQ). Oregon Administrative Rules (OAR), Chapter 340, Division 41; State-Wide Water Quality Maintenance Plan: Beneficial Uses, Policies, Standards, and Treatment Criteria for Oregon.

Oregon Department of Environmental Quality (DEQ). Oregon Administrative Rules (OAR), Chapter 340, Division 45; Regulations Pertaining to NPDES and WPCF Permits.

Oregon Department of Environmental Quality (DEQ). Oregon Administrative Rules (OAR), Chapter 340, Divisions 93 and 95, Solid Waste.

Oregon Department of Environmental Quality (DEQ). Oregon Administrative Rules (OAR), Chapter 340, Division 122; Environmental Cleanup Rules. 1997 and amended July 27, 2000.

Oregon Department of Environmental Quality (DEQ). Oregon Administrative Rules (OAR), Chapter 340, Division 100 through 109; State of Oregon Hazardous Waste Rules.

Guidance and Technical Information Sources

Oregon Department of Environmental Quality (DEQ), April 1997. *Guidance for Ecological Risk Assessment: Level I – Scoping.*

Oregon Department of Environmental Quality (DEQ), May 1997 (.Draft). *Guidance for Ecological Risk Assessment: Level II – Screening.*

Oregon Department of Environmental Quality (DEQ), April 1998 (Final). *Guidance for Identification of Hot Spots.*

Oregon Department of Environmental Quality (DEQ), July 1998 (Final). *Guidance for Conducting Feasibility Studies.*

Oregon Department of Environmental Quality (DEQ), December 1998 (Final). *Guidance for Conduct of Deterministic Human Health Risk Assessments.*

TPH Criteria Working Group, February 27, 1997, Volume III: *Selection of Representative TPH Fractions Based on Fate and Transport Considerations.*

U. S. Environmental Protection Agency, December 1989. *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual,* (Part A) Interim Final. EPA/540/1-89-002.

U. S. Environmental Protection Agency, March 1989. *Risk Assessment Guidance for Superfund, Volume II, Environmental Evaluation Manual.* EPA/1-89-001.

U. S. Environmental Protection Agency, 1989. *Interim Guidance on Establishing Soil Lead Cleanup Levels at Superfund Sites.* OSWER 9355.4-02 & 9355.4-02A.

U. S. Environmental Protection Agency, March 1991. *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors.* OSWER Directive 9285.6-03.

U. S. Environmental Protection Agency, June 1995 (Draft) and July 1989. *Exposure Factors Handbook.* EPA/600/8-89-043.

U. S. Environmental Protection Agency, October 1996 (Final). *Presumptive Response Strategy and Ex-Situ Treatment Technologies For Contaminated Ground Water At CERCLA Sites.* OSWER Directive 9283.1-12, EPA 540/R-96/023.

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U. S. Environmental Protection Agency, June 1997 (Interim Final). *Ecological Risk Assessment Guidance for Superfund: Process Design and Conducting Ecological Risk Assessments.*

U. S. Environmental Protection Agency, July 1999. *A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents.* OSWER 9200.1-23P, EPA 540-R-98-031.

After recording return to:

Ball Janik LLP
101 SW Main Street, Suite 1100
Portland, OR 97204
Attn: Robert S. Ball

Send tax statements to:

No change

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk
Total : 399.00
2002-025454 02/08/2002 03:00:28pm ATLJH
C73 77 REC SUR DOR OLIS
385.00 3.00 10.00 1.00

Recorded By TICOR TITLE E 76742 EO

DECLARATION OF COVENANTS AND RESTRICTIONS

This Declaration of Covenants and Restrictions ("Declaration") is made February 8, 2002 between Hoyt Street Properties, L.L.C., an Oregon limited liability company ("Declarant") and The Burlington Northern and Santa Fe Railway Company ("BNSF"), a Delaware corporation doing business in Oregon.

RECITALS

A. Declarant is the owner of certain real property (the "Property") located in Multnomah County, Oregon, which is more particularly described in Exhibit A, attached hereto and by this reference made a part hereof.

B. Environmental investigations at the Property have determined that hazardous substances, as defined in ORS Chapter 465, are present in soils and groundwater at the Property. To address these hazardous substances and to protect human health and the environment, the Oregon Department of Environmental Quality ("DEQ") selected the remedial action for the Property in a Record of Decision for the Property dated December 15, 2000, and as it may be amended from time to time ("ROD"). Declarant, BNSF and DEQ entered into a consent decree to implement the ROD in *State of Oregon v. The Burlington Northern and Santa Fe Railway Company and Hoyt Street Properties, L.L.C.*, Multnomah County Circuit Court Case No. 0202-01268. That consent decree, together with all exhibits thereto, is attached hereto as Exhibit B (collectively, "Consent Decree").

C. Declarant and BNSF were parties to a lawsuit entitled *Hoyt Street Properties, LLC v. Burlington Northern & Santa Fe Railway Company, et. al.*, U.S. District Court of Oregon, Civil No. 98-1198AS (the "Lawsuit"). At issue in the Lawsuit, by way of claims, counterclaims, and some third party claims for damages and other relief, was liability for the environmental condition of real property in Multnomah County, including the Property. In order to avoid the substantial expense involved in continuing the Lawsuit and to resolve other issues, HSP and BNSF entered into a settlement agreement ("Settlement") to compromise and resolve all known and unknown claims between them. This Declaration is required by the terms of the Settlement, implements certain terms of the Settlement, and does not supersede the Settlement.

NOW THEREFORE, in consideration for the foregoing, which is incorporated by reference, and the promises and obligations herein, Declarant declares and the parties agree as follows:

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SECTION 1 GENERAL DECLARATION

Declarant hereby acknowledges, declares and gives notice of the terms, covenants, obligations and release of claims set forth in this Declaration which are also intended to and do run with the Property and bind Declarant's Successors, as defined in Section 2.5, in the same manner and to the same extent as Declarant regardless of whether reference is expressly made to Declarant's Successors in the provisions of this Declaration.

SECTION 2 DEFINITIONS

For purposes of this Declaration, the following definitions apply:

2.1 **Hazardous Substance(s)**. The terms "Hazardous Substance" and "Hazardous Substances" shall mean and include: (a) the substances included within the definitions of the terms "Hazardous Substance" and/or "Hazardous Material" under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA"), 42 U.S.C. §§ 9601 *et. seq.*, and regulations promulgated thereunder as amended; (b) the substances included within the definitions of the terms "Hazardous Substance" and/or "Hazardous Material" under the Oregon Hazardous Waste and Hazardous Materials Act, ORS 465.200 *et. seq.*, and regulations promulgated thereunder, as amended; and (c) any waste listed as or meeting the identified characteristics of a "Hazardous Waste" under the Resource Conservation and Recovery Act of 1976 ("RCRA"), 42 U.S.C. §§ 6901 *et. seq.*, and regulations promulgated thereunder, as amended.

2.2 **Capping Requirements** shall mean and include all current and future actions required by the DEQ with respect to the Property, excluding matters pertaining to groundwater to the extent specified in Section 5.6 below, and including without limitation remedial actions or measures contained in the ROD and as required of Declarant by the Consent Decree attached hereto as Exhibit B. The Capping Requirements shall also include, without limitation, management of any excavated soils from the Property in accordance with all applicable DEQ requirements. Capping Requirements also means and includes responsibility for institution of DEQ-required deed restrictions and/or other institutional controls that would require long-term maintenance of the cap and other engineering controls; provision and notification of site hazards; DEQ notification prior to any significant changes in site plans, ownership or land use; and restrictions of activities, operations, or uses that would cause long-term damage or interfere with the integrity of the cap, or disturb residual soil contamination without proper management.

2.3 **Clean Fill** shall mean fill that is not subject to any requirements for handling, treatment or disposal except those applicable to native uncontaminated soil, and meets Oregon OSHA occupational standards for maintenance workers without monitoring of exposure to contaminants.

2.4 **Claims** shall mean and include all claims, actions or causes of action, suits, or causes of suit, liens, losses, costs, injuries, damages and/or liabilities, whether known or unknown, including without limitation matters alleged or that could have been alleged in the Lawsuit.

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2.5 **Declarant's Successors** shall mean and include any and all persons or entities which succeed to any possessory, ownership, or other interest to the Property, or any portion thereof, and which engage at any time in development or redevelopment activities of or on any portion of the Property which involve any excavation or other handling or any disturbance of, or effect on, the soil, the Capping Requirements (as defined in Section 2.2), or groundwater.

2.6 **HSP/Prendergast Agreement** shall mean that certain agreement between Declarant and Prendergast and Associates, Inc., Walker Road Partners, and Walker Road Limited Partnership regarding the Lawsuit.

2.7 **Indemnified Claims**

2.7.1 Indemnified Claims shall mean claims, demands, lawsuits, or state or federal notices of violation brought against Declarant by anyone, including any state or federal governmental authorities, other than any owners, developers, occupants, users or other persons having or claiming any right with regard to any part of the Property, based on allegations of contamination of groundwater or other waters of the State of Oregon (including subsurface waters of the Property, the Tanner Creek subsurface storm water drainage system, and the Willamette River) which arose from Hazardous Substances, which existed on the Property as of December 31, 1998, or alleged migration of Hazardous Substances, which existed on the Property as of December 31, 1998. Indemnified Claims shall also include any claims by any third party caused by conduct of BNSF with regard to any failure by BNSF to meet its obligations under Section 5.6.1 or LNAPL or hot spot removal undertaken by BNSF, subject to the exception in Section 2.7.2. Section 2.7 – 2.7.2 on Indemnified Claims is included in this Declaration for definitional purposes. The indemnity referenced in this Declaration does not apply to Declarant's Successors or assigns and does not run with the land.

2.7.2 Excluded from the definition of Indemnified Claims are any claims, demands, lawsuits, or state or federal notices of violation which were caused or materially contributed to by any excavation, developmental activity or use of the Property, or which arise from any contractual obligations assumed, by Declarant or Declarant's Successors, or their respective grantees, assigns and/or purchasers, including without limitation anything relating to basements, Future Rights-of-Way (defined below) development and/or Previously Constructed Rights-of-Way (defined below). Indemnified Claims shall not include any kind of taxes or governmental assessments. Indemnified Claims shall not include any claims which have been released in any agreements between BNSF and any third parties including without limitation BNSF's agreement with Patrick Prendergast and others concerning Lots 55, 56 and Tract "F" Pearl Block No. 4, City of Portland, Multnomah County, Oregon.

2.8 **Previously Constructed Rights-of-Way** shall mean and include all rights-of-way previously developed by Declarant using construction worker standard soil (as defined in the ROD) in the ten street blocks on 10th and 11th Streets from Lovejoy to Northrup, on Northrup from 9th Street to 12th Street, and Marshall from 9th to 12th Streets which include a soil volume credit to BNSF of 11,325 truck cubic yards ("TCY"). Attached hereto as Exhibit C is a legal description of the Previously Constructed Rights-of-Way.

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2.9 **Future Rights-of-Way** shall mean and include all rights-of-way to be constructed on the Property by HSP other than Previously Constructed Rights-of-Way. Future Rights-of-Way shall be constructed using Clean Fill or Urban Resident Child Fill, as applicable pursuant to Section 5.2, to a depth of five feet below pavement surface extending laterally 22 ½ feet from the mid point of each street or to the extent of the actual right-of-way where any basements may not allow for a depth of five feet below the pavement surface.

2.10 **"Urban Resident Child Fill"** means fill not exceeding the risk-based concentrations for the Urban Resident Child, as contained in Table 4-1 of the ROD.

SECTION 3 RELEASE AND COVENANT NOT TO SUE BY DECLARANT AND DECLARANT'S SUCCESSORS

3.1 **Scope**. Except for obligations of BNSF expressly provided in herein, including without limitation Sections 5.6, 5.7, and Indemnified Claims as defined in Section 2.7, and as provided in Exhibit B hereto, Declarant hereby covenants not to further sue and agrees to release and forever discharge BNSF and its officers, directors, shareholders, representatives, agents, independent contractors, employees, insurers, attorneys, predecessors, affiliates, successors, successors in interest (including Glacier Park Co. and Burlington Resources, Inc.) and assigns from any and all Claims known or unknown, of any kind or nature whatsoever including without limitation:

3.1.1 Claims arising out of statutory liability, contract, indemnity (including without limitation the HSP/Prendergast Agreement), negligence, and environmental contamination claims relating to the Property, including without limitation any and all claims in any way related to the release, use or presence of Hazardous Substances on, at, under or from the Property;

3.1.2 enforcement actions or Claims by the DEQ, the Environmental Protection Agency, or any other regulatory agency or entity existing now or that may arise in the future, including any Claims or demands compelling, directly or indirectly, any investigations, cleanup or other response, removal, remedial action or compliance actions of any kind in any way related to any Hazardous Substance or any other condition on, at, or under the Property, whether or not the presence of such Hazardous Substance or other condition is presently known;

3.1.3 any Claims by or arising from all Property tenants, condominium owners, grantees, Declarant's Successors or assigns of Declarant of any kind or nature related to the presence of Hazardous Substances or any other condition of the Property;

3.1.4 any Claims other than Indemnified Claims that may be made by any third parties relating in any way to the condition of the Property, including without limitation any environmental condition or Hazardous Substances;

3.1.5 any Claims by anyone arising from environmental contamination of or Hazardous Substances in ground water or from the Property where such Claims arise from or

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relate to the developmental activities of Declarant or its Successors or assigns, including without limitation basements; and

3.1.6 any and all Claims that were or could have been asserted in the Lawsuit.

3.2 **Release to Run With The Property**. It is the express intention of Declarant and BNSF that the release and terms agreed to by Declarant in this Section 3 shall run with the Property and all portions thereof, be binding upon Declarant's Successors, and shall forever bar Declarant and any of Declarant's Successors from asserting any Claim subject to release herein against any of the parties released by Declarant in Section 3.1 – 3.1.6 above.

SECTION 4 RELEASE AND COVENANT NOT TO SUE BY BNSF.

Except for obligations of Declarant or Declarant's Successors expressly provided herein and as provided in Exhibits B hereto, including without limitation Sections 3 and 5 and all of their subsections, BNSF hereby covenants not to further sue and agrees to release and forever discharge Declarant and its officers, directors, shareholders, representatives, agents, independent contractors, employees, insurers, attorneys, successors, successors in interest and assigns from any and all of the following known or unknown Claims:

4.1 Claims arising from the condition of the Property up to the time of and as it existed on December 31, 1998, and Claims by BNSF that were or could have been brought in the Lawsuit and as to amounts paid by BNSF for investigation or remediation to date of any Hazardous Substances or any other environmental condition on, at, or under or from the Property other than the obligations of Declarant expressly specified in this Agreement;

4.2 Claims arising from or relating to any failure by BNSF to meet its obligations under this Agreement, including without limitation under Section 5.6.1;

4.3 Indemnified Claims as defined in Section 2.7.

SECTION 5 ENVIRONMENTAL OBLIGATIONS.

5.1 **Capping Obligation**. Declarant and BNSF shall each be a signatory to a DEQ Consent Decree in the form of Exhibit B hereto (including the Soil SOW and License and Declaration of Restrictions attached to the Consent Decree), under the ROD concerning the Property. Declarant agrees to undertake and have complete and sole responsibility for completing, maintaining and obtaining DEQ approval for all Capping Requirements.

5.2 **Future Rights-of-Way**.

5.2.1 Unless Declarant satisfies the requirements of Section 5.2.2 and elects to place Urban Resident Child Fill in the Future Rights of Way pursuant thereto, BNSF and Declarant hereby agree that Clean Fill shall be placed in the Future Rights-of-Way by Declarant which have been or will be dedicated to the City of Portland.

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5.2.2 If the City of Portland delivers to BNSF an unconditional release meeting the requirements of this Section 5.2.2, Declarant shall have the right to place Urban Resident Child Fill, rather than Clean Fill, in the Future Rights of Way which have been or will be dedicated to the City of Portland. Any such release shall specify that the City releases BNSF from any liability to the City with respect to the condition of the soil in the Future Rights-of Way, including without limitation any liability for the management, handling and disposal of soils in such Future Rights of Way as necessary to conduct the City's maintenance and operation activities for public infrastructure in such Future Rights of Way.

5.2.3 Declarant hereby agrees to take complete and sole responsibility for placement and expense of Clean Fill or Urban Resident Child Fill, as applicable, in the Future Rights-of-Way. Declarant shall place Clean Fill or Urban Resident Child Fill in the Future Rights-of-Way as provided in Sections 5.2.1 and 5.2.2 and as required by Section 2.9. BNSF shall have no further responsibility for the Future Rights-of-Way.

5.3 **Previously Constructed Rights-of-Way**. Declarant has acknowledged that construction worker standard soil (as defined in the ROD) has already been voluntarily used by Declarant in the Previously Constructed Rights-of-Way. BNSF shall have no responsibility for the environmental condition of the Previously Constructed Rights-of-Way except for any groundwater issues not caused by developmental activities as addressed in Section 5.6 through 5.6.2.

5.4 **Trench Spoils**. Declarant shall dispose of contaminated soil removed by Declarant in connection with the installation of storm and sanitary sewers in accordance with the ROD and the Soil Scope of Work (Exhibit B) or as may otherwise be required by DEQ. Declarant shall be responsible for the costs of such disposal. BNSF shall have no further obligation with respect to such sewers.

5.5 **Post-Construction Monitoring and Implementation Cost**. Declarant shall be obligated to undertake, pay for, and ensure that Declarant's Successors undertake all post-construction monitoring and implementation required by the DEQ except as to groundwater as addressed by Section 5.6 below. BNSF shall have no further responsibility for any of Declarant's post-construction monitoring and implementation costs.

5.6 **Groundwater**.

5.6.1 Except for responsibilities undertaken by Declarant and Declarant's Successors as provided in this Declaration, including without limitation in Section 5.6.2, BNSF shall, with respect to Hazardous Substances which were released on the Property on or previous to December 31, 1998 or migration thereof, be responsible for all monitoring, testing and remediation of groundwater within or from the Property required by state or federal authorities under state or federal environmental laws, including without limitation the ROD.

5.6.2 As to each parcel of Property, Declarant and Declarant's Successors shall be responsible for any liability or damage caused by or materially contributed to by, or resulting from, development or other use of such parcel by such person, including without limitation any monitoring, testing and remediation of groundwater required under any laws, rules or regulations

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or by any judicial or administrative authority. For example, and without limitation, Declarant and Declarant's Successors as to a parcel shall be responsible for groundwater issues arising from any contractual obligations undertaken by Declarant or Declarant's Successors, or for obligations that result from disturbance of the soil or excavation of any kind arising from their development or other use of their respective parcels, including without limitation basements or fluids in or pumped from basements. Declarant and Declarant's Successors shall also be responsible for the groundwater "institutional controls" in Section 7.2.2 of the ROD at Page 7–6 as also addressed in the Consent Decree.

5.7 **LNAPL and Hot Spots**. BNSF and Declarant have entered a separate agreement concerning voluntary LNAPL removal by BNSF in the Block 16 area of the Property. BNSF and Declarant recognize that their respective excavations and other subsurface activities may reveal a currently unknown "hot spot" or other area of Hazardous Substances which may be required to be removed under applicable federal or state environmental laws or the ROD. For example, and by way of illustration only, Declarant may encounter a hot spot during basement excavation or right-of-way development and BNSF may encounter a hot spot if BNSF decides to engage in removal of light non-aqueous phase liquid ("LNAPL") in the Block 16 area. Whichever party encounters any such Hazardous Substance during the course of its activities shall be fully and solely responsible for removing it and any associated Hazardous Substance to the extent required by and in accordance with applicable federal and state environmental laws, and shall be responsible for all associated costs.

5.8 **Other Environmental Costs and Matters**. Except for the obligations of BNSF specifically set forth herein and in the Settlement, BNSF shall have no further responsibility for any and all other environmental costs, obligations, and issues relating to the Property.

SECTION 6 GENERAL PROVISIONS

6.1 **Assumption of Risk of Unknown Facts/Claims**. Declarant and BNSF expressly assume the risk of facts known or unknown for any reason, and/or any mistake of fact and any facts that might be proven to be other than or different from the facts now known to any of the parties to this Declaration or believed by them to exist. It is understood that each of the parties are represented by counsel, environmental consultants and other advisors, and that the Claims subject to release herein include any known or unknown Claims including without limitation any Claims in any way relating to or arising from omission or nondisclosure of any information, disclosure, and/or legal violations of any kind, including without limitation in the negotiation or inducement of this Declaration, on any grounds other than the direct representations herein.

6.2 **Disclaimer of Liability**. Neither this Declaration nor the negotiation, execution or performance thereof, shall be deemed to constitute an admission directly or indirectly by any party of its liability or responsibility for and/or of the correctness of, any of the allegations or claims that were or may have been asserted in the Lawsuit or arising out of the release of any Hazardous Substance on, at, under or adjacent to the Property. No party hereto, its agents, employees, officers, directors, representatives, affiliates or attorneys, shall allege or state anything to the contrary in any kind of suit, action or proceeding, whether or not it is now pending, in which it or they may be a litigant, witness or other participant.

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6.3 **Other Instruments and Writings**. Each party agrees to execute any further and additional documents, instruments and writings as may be necessary for the purpose of fully effectuating the terms and provisions of this Declaration, including without limitation such things as deed restrictions and the Consent Decree.

6.4 **Settlement as a Defense**. If any Claim subject to release, hold harmless or covenant not to sue herein is ever asserted by a party against any of the persons or entities given a release in this Declaration, then this Declaration is intended to act as a defense to any such Claim and may be asserted by any of the parties released as a defense to any such Claim.

6.5 **Attorneys' Fees**. If a suit, action, or other proceeding of any nature whatsoever (including any proceeding under the U.S. Bankruptcy Code) is instituted to enforce or interpret any provision of this Declaration or in connection with any dispute arising hereunder, the prevailing party shall be entitled to recover an amount determined reasonable as attorney fees by any Court in which such action, suit, or proceeding is tried, heard or decided, including trial, and any appeal or review, in addition to all other amounts provided by law.

6.6 **Governing Law**. This Declaration shall be governed by the laws of the State of Oregon.

6.7 **Binding Effect**. This Declaration, including without limitation the releases given herein, shall be binding upon the parties and their respective grantees, successors, and assigns, including but not limited to Declarant's Successors. Nothing herein is intended to create any rights for anyone or any entity that is not expressly mentioned in this Declaration.

6.8 **Severability**. In the event any one or more of the provisions of this Declaration or any application thereof shall be deemed invalid, illegal or unenforceable in any respect, or if this Declaration is deemed to be unenforceable with respect to part of the Property, the validity, legality and enforceability of the remaining provisions thereof, or any other applications thereof, shall not in any way be affected or impaired.

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6.9 **Notices**. All notices and delivery of documents shall be made as follows:

IF TO BNSF:

Vice President/Law
The Burlington Northern and Santa Fe Railway Company
2500 Lou Menke Drive
Fort Worth, Texas 76131
(817) 352-2369
(817) 352-2399 Fax

and

Bruce A. Sheppard, Manager
Environmental Remediation
The Burlington Northern and Santa Fe Railway Company
2454 Occidental Avenue South, Suite 1A
Seattle, Washington 98134-1451
(206) 625-6035
(206) 625-6007 Fax

IF TO DECLARANT:

Hoyt Street Properties LLC
809 NW 11th
Portland, Oregon 97209
Attention: Executive Director
(503) 227-6677
(503) 227-0147 Fax

6.10 **Amendment**. This Declaration shall not be changed in any respect except by a writing executed by authorized representatives of the parties.

6.11 **Representations of Authority**. The undersigned have read this Declaration and have been advised by counsel. They represent that they have authority to sign this Declaration.

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IN WITNESS WHEREOF Declarant and BNSF have executed this Declaration of Covenants and Restrictions as of the date and year first set forth above.

DECLARANT:

Hoyt Street Properties, L.L.C.

By: _____
Its: Executive Director

BNSF:

The Burlington Northern and Santa Fe Railway Company

By: _____
Its: Corporate Vice President
Law & Gov. Affairs and Secretary

STATE OF OREGON)
) ss.
County of Multnomah)

The foregoing instrument is acknowledged before me this 30th day of January 2002, by TIFFANY SWEET the Executive Director of Hoyt Street Properties, L.L.C., on its behalf.

OFFICIAL SEAL
SUSAN M MILLER
NOTARY PUBLIC - OREGON
COMMISSION NO. 348[illegible]
MY COMMISSION EXPIRES [illegible]

_____
NOTARY PUBLIC FOR OREGON

STATE OF TEXAS)
) ss.
County of _____)

The foregoing instrument is acknowledged before me this 5th day of February, 2002, by Jeffrey K Moreland, the Corp. VP Law & Gov Aff and Sec. of The Burlington Northern and Santa Fe Railway Company, on its behalf.

KAARAN FRANK
MY COMMISSION EXPIRES
September 29, 2005

_____
NOTARY PUBLIC FOR ~~OREGON~~ TEXAS

2-8-02

EXHIBIT A
Legal Description
(1 of 3)

Parcel 1

Lots 43, 44, 45 and 46, PEARL BLOCK NO. 4, City of Portland, County of Multnomah, Oregon.

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EXHIBIT A
(2 of 3)

Parcel 2

A parcel of land located in the southwest quarter of Section 27, southeast quarter of Section 28, northeast quarter of Section 33, and northwest quarter of Section 34, Township 1 North, Range 1 East, Willamette Meridian, City of Portland, Multnomah County, Oregon and being more particularly described as follows:

Beginning at the southeast corner of Block 188 of COUCH'S ADDITION TO THE CITY OF PORTLAND, recorded November 16, 1872 in Town Plat Book 1, Pages 51 and 52; said point also being the north line of N.W. Lovejoy Street; thence along the northerly line of said N.W. Lovejoy Street North 89°56'04" West 720.00 feet to the southwest corner of Block 186 of said COUCH'S ADDITION; said point also being on the east line of N.W. 12th Avenue; thence along the east line of said N.W. 12th Avenue North 00°03'56" East 1300.03 feet to the southwest corner of Block 245 of said COUCH"S ADDITION; and also being the north line of N.W. Quimby Street; thence along the north line of said N.W. Quimby Street North 89°56'04" West 260.00 feet to the southwest corner of Block 246; and also being the east line of said N.W. 13th Avenue; thence along the east line of said N.W. 13th Avenue North 00°03'56" East 260.00 feet to the southwest corner of Block 259, said point also being on the north line of N.W. Raleigh Street; thence along the north line of said N.W. Raleigh Street North 89°56'04" West 260.00 feet to the southwest corner of Lot 2, Block 258 of said COUCH'S ADDITION; thence along the west line of said Block 258 North 00°03'56" East 100.00 feet to the northwest corner of Lot 3 of Block 3, of WATSON'S ADDITION TO THE CITY OF PORTLAND, recorded March 7, 1871 in Town Plat Book 2, Page 60; thence along the north line of said Lot 3, South 89°56'04" East, 100.00 feet to the northeast corner of said Lot 3; thence along a line that is parallel to and 100.00 feet easterly of the west line of said Block 3 North 00°03'56" East 160.00 feet to the southeast corner of Lot 2, Block 14 of said WATSON'S ADDITION, also being on the north line of N.W. Savier Street; thence along the south line of said Lot 2, Block 14 North 89°56'04" West 100.00 feet to the southwest corner of said Lot 2, Block 14 also being on the east line of N.W. 14 Avenue; thence along the east line of said N.W. 14th Avenue North 00°03'56" East 200.00 feet to the northwest corner of said Block 14; thence South 89°56'04" East 20.00 feet; thence along a line that is perpendicular to the southerly line of N.W. Front Avenue North 41°03'053" East, a distance of 34.87 feet to a point that is 25.00 feet southwesterly from the centerline of Portland Terminal Railroad Company's southerly main track centerline when measured at a right angle; thence along a line that is parallel to and 25.00 feet southerly from the said centerline of said railroad when measured at a right angle South 48°57'52" East 1386.65 feet to a point; thence as follows: South 40°34'15" East 81.77 feet; thence South 38°22'11" East 103.95 feet; thence South 28°07'24" East 68.27 feet to a point on the westerly line of said N.W. 9th Avenue; thence along the west line of said N.W. 9th Avenue South 0°03'56" West 933.52 feet to the southeast corner of said Block 188 COUCH'S ADDITION and the point of beginning;

Excepting therefrom:

Lots 1, 2, 7 and 8, HOYT STREET YARDS, in the City of Portland, County of Multnomah, Oregon;

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EXHIBIT A
(3 of 3)

Also excepting therefrom:

All street rights-of-way dedicated to the public, whether presently dedicated or dedicated in the future, including but not limited to those street rights-of-way as shown and dedicated to the public on the plat of HOYT STREET YARDS, recorded on September 13, 2000, in Book 1248, at Pages 21 and 22, plat records for Multnomah County, Oregon.

2-8-02

EXHIBIT B

DEQ Consent Decree with attachments thereto

2-8-02

FILED
02 FEB -8 PM 2:11
FOR FULTNOMAH COUNTY

IN THE CIRCUIT COURT OF THE STATE OF OREGON

FOR THE COUNTY OF MULTNOMAH

STATE OF OREGON, ex rel. STEPHANIE HALLOCK, DIRECTOR DEPARTMENT OF ENVIRONMENTAL QUALITY

Plaintiff,

v.

THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY, a Delaware corporation, and HOYT STREET PROPERTIES, LLC, an Oregon limited liability company,

Defendants.

0202-01268

Case No.

STIPULATION AND CONSENT DECREE

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1. Purpose

This Stipulation and Consent Decree is filed simultaneously with and for the purpose of resolving the underlying complaint by the State of Oregon. The parties desire to resolve this action without litigation and have agreed to entry of the Consent Decree without admission or adjudication of any issue of fact or law.

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The mutual objective of the parties is to protect public health, safety, and welfare and the environment by the design and implementation of remedial measures in accordance with ORS 465.200 through 465.410, regulations promulgated thereto, and the administrative Record of Decision dated December 15, 2000.

2. Stipulations

A. Defendant The Burlington Northern and Santa Fe Railway Company ("BNSF") and Defendant Hoyt Street Properties, LLC ("HSP") each stipulate:

(1) To entry of this Consent Decree;

(2) To perform and comply with all applicable provisions of this Consent Decree;

(3) In any proceeding brought by the Oregon Department of Environmental Quality ("DEQ") to enforce this Consent Decree, not to litigate this Court's jurisdiction over this matter or the validity of the Consent Decree; and

(4) To waive any right Defendant might have under ORS 465.260(7) or 465.325(2) to seek reimbursement or financial assistance for the costs incurred under this Consent Decree.

B. DEQ, BNSF, and HSP each stipulate:

(1) BNSF is a Delaware corporation licensed to do business in the State of Oregon. HSP is an Oregon limited liability company licensed to do business in the State of Oregon.

(2) BNSF formerly owned and operated a railroad operations and maintenance facility on approximately 26 acres in northwest Portland, Oregon. The former railyard is bounded by the current Naito Parkway to the north, NW 9th Avenue to the east, NW Lovejoy Street to the south, and NW 12th Avenue to the west. The facility subject to this Consent Decree includes this area, as well as one block south of NW Kearney Street between NW 10th and NW 9th Avenues, one block north of NW Quimby Street between NW 12th and NW

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13th Avenues, and approximately three blocks north of NW Raleigh Street between NW 12th and NW 14th Avenues in the northwestern corner of the former railyard. These areas are collectively referred to in this Consent Decree as the "Site". The general location of the Site is shown on Attachment A to this Consent Decree. HSP currently owns or controls most of the Site, formerly owned and controlled the entire Site, and is in the process of developing portions of the Site for residential, commercial, and other related uses.

(3) BNSF operated the Site from about 1911 through December 31, 1998. BNSF's activities at the Site involved switching and fueling railcars and locomotives. BNSF used a number of chemicals as part of its operations, such as petroleum. HSP acquired the Site in 1994 and leased the Site to BNSF through the end of 1998, when BNSF vacated the Site. Since 1998, HSP has been developing the Site for residential, commercial and other related uses. HSP's development activity at the Site involves management of soil and groundwater that may be contaminated with hazardous substances, such as petroleum. Since 1998, HSP has sold portions of the Site to third parties for redevelopment.

(4) On August 16, 1995, DEQ and BNSF signed Order on Consent No. WMCSR-NWR-95-08, in which BNSF agreed to complete a remedial investigation ("RI") and feasibility study ("FS") and to undertake interim remedial measures. The purpose of the RI was to investigate the nature and extent of hazardous substance contamination at the Site; the purpose of the FS was to develop alternatives for remedial action; and, the purpose of the interim remedial measures was to minimize the potential exposure of the public and environment to hazardous substances pending selection of a final remedial action for the Site. Further interim remedial measures have been performed or are underway since selection of a final remedial action, as described below, in order to implement remedy components concurrent with development of the Site.

(5) Analytical results of sampling performed at the Site indicate that petroleum, lead and polynuclear aromatic hydrocarbons ("PAH") are present in soil and that

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petroleum and PAH are present in shallow groundwater.

(6) Since 1992, BNSF has been implementing an interim remedial measure to remove free petroleum product from the surface of shallow groundwater at the Site ("LNAPL IRM"). In 1996 and in 2000, BNSF implemented soil removal as further interim remedial measures under the Order on Consent.

(7) In the Summer of 1996, BNSF removed contaminated soil from the block bounded by NW Johnson St., NW Kearney St., NW 9th Ave., and NW 10th Ave. as an interim action approved by DEQ under the Order on Consent. This part of the Site was subsequently developed by the owner, Pearl Court Limited Partnership, and is the subject of Prospective Purchaser Agreement No.96-08 with DEQ. The agreement is premised on the construction of buildings, pavement, and sidewalks serving as a cap on most of the block to prevent water infiltration and direct contact with contaminated surface soils or air entrainment of surface soils. The agreement requires the limited partnership to maintain the cap and implement deed restrictions to restrict use of the shallow groundwater. However, DEQ has since determined that completion of the interim action by BNSF has resulted in a protective remedy consistent with the December 2000 Record of Decision, described below, such that cap maintenance and deed restrictions are no longer necessary for this block.

(8) In October 1996, BNSF submitted a Final RI to DEQ. In July 1999, BNSF submitted the Final FS to DEQ. Pursuant to ORS 465.320, on January 1, 2000, DEQ published notice of a proposed remedial action and provided opportunity for public comment. Comments received on the proposed remedial action were considered by DEQ, as shown in the administrative record.

(9) In 2000, Prendergast & Associates, the owner of the block bounded by NW Kearney St., NW Lovejoy St., NW 9th Ave., and NW 10th Ave., removed contaminated soil from this block as an interim action. This block is still in the process of being developed by the owner, and is not within the Site subject to this Consent Decree. Upon completion of

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this work and review of a completion report by DEQ, DEQ will determine whether cap maintenance and institutional controls are necessary at this block to achieve a protective remedy consistent with the December 2000 Record of Decision.

(10) In 2000, Onder Development Company, on behalf of owner Lovejoy Station Limited partnership, began development of the block bounded by NW Lovejoy St., NW Marshall St., NW 9th Ave., and NW 10th Ave. In September 2000, DEQ and the partnership entered Prospective Purchaser Agreement No. 00-08. The agreement is premised on the construction of buildings, pavement, and sidewalks serving as a cap at the block. The agreement requires the partnership to maintain the cap and implement deed restrictions to prevent disturbance of the cap and underlying contaminated soils.

(11) The Deputy Director of DEQ selected the remedial action set forth in a Record of Decision dated December 15, 2000 ("ROD").

(12) The remedial action selected in the ROD requires the following categories of work for groundwater:

- Continuation of the LNAPL IRM operating at the Site (free petroleum recovery and recycling);
- Performance evaluation of the existing LNAPL IRM to determine if a system upgrade and/or expansion is feasible;
- Investigation and evaluation of the Tanner Creek sewer and backfill as a potential contaminant migration pathway to the Willamette River with contingencies for preventing or mitigating the migration;
- Groundwater monitoring;
- Institutional controls; and
- Periodic review, with contingency measures in the event groundwater monitoring shows that contaminant levels have

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significantly increased or are migrating to the Willamette River, and pose imminent threats to human health or the environment, or that remedial action objectives are not otherwise being attained.

(13) The remedial action selected in the ROD requires the following categories of work for soil:

- Excavation and treatment and/or disposal of hot spot soils;
- Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil;
- Excavation of soil in utility corridors where concentrations exceed the construction worker cleanup criteria in the upper five feet of soil;
- Capping the entire Site with two to three feet of clean soil, buildings, pavement or other improvements;
- Institutional controls; and,
- Periodic review, with contingency measures in the event that any component of the soil remedy is compromised such that the remedy no longer meets the protection standards, or that the remedial action objectives are not otherwise being satisfied.

(14) In June 2001, BNSF proposed to excavate LNAPL and LNAPL-contaminated soils from the subsurface in the Block 16 area consistent with the ROD. This work was approved by DEQ on September 7, 2001 as an interim action under the Order on Consent, and the work was commenced. The LNAPL removal work will be in lieu of the following requirements in the ROD: (a) continuation of the LNAPL IRM operating at the Site (free petroleum recovery and recycling); and, (b) performance evaluation of the existing LNAPL IRM to determine if a system upgrade and/or expansion is feasible. Upon completion of this work, a completion report will be submitted for DEQ review and approval in

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accordance with this Consent Decree.

(15) In July 2001, BNSF proposed, consistent with the ROD, to stabilize, excavate, and dispose at a landfill TCLP-lead soils. This proposal was approved by DEQ on August 13, 2001 as an interim action under the Order on Consent, and the work was completed in September 2001. A completion report will be submitted for DEQ review and approval in accordance with this Consent Decree.

(16) Because the ROD was not issued until December 2000, DEQ required that earthwork for the development of Blocks 8-13 and the adjacent rights-of-way of NW Marshall St., NW Northrup St., NW Tenth Ave., and NW Eleventh Ave. be carried out under the Phases 1 and 2 Interim Remedial Action Plan developed by HSP. The interim plan was approved by DEQ and the City of Portland. This work is underway.

(17) On December 1, 2001, DEQ published notice of a proposed consent decree and provided opportunity for public comment in accordance with ORS 465.325(4)(d). The comment period ended on January 7, 2002. No comments were received.

Based on the above Stipulations, the parties agree to entry of the following Consent Decree:

CONSENT DECREE

3. Work to be Performed

A. Remedial Design and Remedial Action

(1) BNSF shall perform the groundwater component of remedial design and remedial action for the Site in accordance with the terms and schedules set forth in the Groundwater Scope of Work ("Groundwater SOW"), attached to and incorporated by reference into this Consent Decree as Attachment B, and the terms and schedules set forth in an approved work plan.

(2) HSP shall perform the soil component of remedial design and remedial

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action for the Site in accordance with the terms and schedules set forth in the Soil Scope of Work ("Soil SOW"), attached to and incorporated by reference into this Consent Decree as Attachment C, and the terms and schedules set forth in an approved work plan

B. Periodic Review

At least once every five years, DEQ will review the remedy to ensure that the Site remains protective of public health, safety, and welfare and the environment. Periodic reviews will include evaluation of monitoring data, progress reports, inspection and maintenance reports, land and water uses, compliance with institutional controls, and any other relevant information. Contingency measures for groundwater might be necessary if information shows that contaminant levels have significantly increased or are migrating to the Willamette River and pose threats to human health or the environment, or that remedial action objectives are not otherwise being attained. Contingency measures for soils might be necessary if any component of the soil remedy is compromised such that the remedy no longer meets protection standards, or if remedial action objectives are not otherwise being obtained. Neither Defendant is obligated under this Consent Decree to perform any groundwater or soil contingency measures identified through DEQ's periodic review and not otherwise required under the Groundwater SOW or the Soil SOW.

C. Site Restrictions

(1) Prior to conveying fee title to any portion of the Site owned by HSP at the time of execution of this Consent Decree, HSP shall record with the County Clerk, Multnomah County, a License and Declaration of Restrictions substantially in the form attached to this Consent Decree as Attachment D. HSP shall provide DEQ and BNSF a file-stamped copy of the License and Declaration of Restrictions within five working days of recording.

(2) Property subject to the License and Declaration of Restrictions may be freely alienated at any time after recording; provided, the deed or other instrument of conveyance from HSP shall refer to or incorporate the License and Declaration of Restrictions.

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(3) Any deed, title, or other instrument of conveyance regarding real property owned by the HSP within the Site shall reserve such access--by easement, right-of-way, License and Declaration of Restrictions, or otherwise--as might be necessary to carry out its obligations and BNSF's obligations under this Consent Decree.

(4) The terms and conditions of this Subsection 3.C. shall not apply to the granting or conveyance of a security interest in the property.

4. General Provisions

A. Selection of Supervising Contractor

(1) All aspects of the work to be performed by Defendants in designing and constructing the remedy pursuant to this Consent Decree shall be performed under the direction and supervision of the Defendants' respective qualified contractor or contractors having experience in hazardous substance remediation and knowledge of applicable state and federal laws, regulations, and guidance.

(2) Before initiation of remedial design work for the site, each Defendant shall notify DEQ in writing of the name, title, and qualifications of any proposed supervising contractor(s). DEQ may for good cause disapprove the proposed contractor(s). In the event of such disapproval, DEQ shall notify the relevant Defendant in writing of the reasons for its disapproval, within 14 days of receipt of the initial notice from that Defendant. Within 14 days of receiving DEQ's notice of disapproval, the relevant Defendant shall notify DEQ of the name, title, and qualifications of alternative supervising contractor(s), subject to DEQ's right to disapprove under the terms and schedule specified above. Any work schedule shall be extended in the event that a delay is caused due to DEQ disapproval of a contractor or contractors, in an amount of time corresponding to the delay but not exceeding 60 days from the date of DEQ's last disapproval. DEQ hereby approves ThermoRetec as a qualified contractor for BNSF for purposes of this Consent Decree. DEQ hereby approves IT Corporation as a qualified contractor for HSP for purposes of this Consent Decree.

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(3) If, during the course of work required under this Consent Decree, either Defendant proposes to change its supervising contractor(s), it shall notify DEQ in accordance with the provisions of the preceding paragraph. DEQ shall have the right to disapprove such contractor(s), under the terms and schedule specified in the preceding paragraph.

B. Financial Assurance

(1) Each Defendant shall demonstrate its ability to perform the work required of that Defendant under this Consent Decree by obtaining and submitting to DEQ for approval one or a combination of the following: (1) a performance bond; (2) a letter(s) of credit equaling the total estimated cost of the work; (3) evidence of an escrow account dedicated to payment of or reimbursement for remedial action costs and containing a balance at least equal to the total estimated cost of the work not assured through a performance bond, letter(s) of credit, or financial test or corporate guarantee; (4) internal financial information (financial test or corporate guarantee) sufficient to satisfy DEQ that its net worth is sufficient to make additional financial assurances unnecessary. If internal financial information is relied upon, the standards used to determine the adequacy of Defendant's resources shall be equivalent to those set forth in 40 CFR Part 265, Subpart H. Financial assurance shall be submitted within 30 days of DEQ approval of the final remedial design work plan in the amount of the estimated total capital cost of the remedial action.

(2) DEQ will have 45 days from the receipt of the financial assurance or other information to determine its adequacy and to communicate that determination to each Defendant. If DEQ determines that such assurance or information is inadequate, the relevant Defendant shall submit one of the other forms of assurance to DEQ for its approval. If internal corporate information is relied upon, the relevant Defendant shall submit updated financial information annually on the anniversary date of issuance of this Consent Decree.

(3) During implementation of the remedial action, DEQ may require either Defendant to revise the cost estimates used to demonstrate that Defendant's financial

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assurance, and either Defendant at its own election may revise the cost estimate for the work required of that Defendant from time to time. If the revised cost estimate is significantly higher or lower than the original cost estimate, DEQ may require the relevant Defendant to submit, or that Defendant may elect to submit, revised financial assurance under the terms and schedule set forth in the preceding paragraphs adequate to assure financial capability of the level of the revised cost estimate.

(4) In no event shall work required under this Consent Decree be delayed pending submission and/or approval of financial assurance under this subsection.

C. Access

(1) HSP shall allow DEQ to enter all portions of the Site owned or under the control of HSP at all reasonable times for the purpose of overseeing HSP's and BNSF's performance under this Consent Decree, including but not limited to inspecting records relating to work under this Consent Decree, observing Defendants' progress in implementing this Consent Decree, conducting such tests and taking such samples as DEQ deems necessary, verifying data submitted to DEQ by either Defendant, conducting periodic review, and using camera, sound recording, or other recording equipment. DEQ shall make available to each Defendant a split or duplicate of any sample taken in connection with this Consent Decree and provide each Defendant with copies of all analytical data for such samples. DEQ shall also make available to each Defendant, upon that Defendant's request, any photographs or recorded or videotaped material taken. DEQ shall be responsible for the health and safety of its commissioners, agents, officers, employees, and contractors entering or moving about the Property and shall indemnify and hold Defendants harmless, to the extent required by Paragraph 4.P.(3) of this Consent Decree, from and against any and all claims arising out of the acts or omissions of such commissioners, agents, officers, employees, and contractors entering or moving about the property.

(2) Each Defendant shall permit DEQ to inspect and copy all records, files,

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photographs, documents, and data that the Defendant prepares in order to complete work required under this Consent Decree, except that neither Defendant shall be required to permit DEQ inspection or copying of items subject to attorney-client or attorney work product privilege.

(3) Each Defendant shall identify to DEQ (by addressor-addressee, date, general subject matter, and distribution) any document, record, or item withheld by the Defendant from DEQ on the basis of attorney-client or attorney work product privilege, except to the extent that such identifying information is itself subject to a privilege. DEQ reserves its rights under law to obtain documents DEQ asserts are improperly withheld by either Defendant. Attorney-client and work product privileges may not be asserted with respect to any records required under Paragraph 4.G.(1) of this Consent Decree.

D. Project Coordinators

(1) To the extent possible, all reports, notices, and other communications required under or relating to this Consent Decree shall be directed to:

DEQ
Project Coordinator:

Jill Kiernan
Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987
Tel: 503-229-6900
Fax: 503-229-6945

HSP
Project Coordinator:

Jim Mitchell
Hoyt St. Properties
809 NW 11th Ave.
Portland, OR 97209
Tel: 503-227-6677
Fax: 503-227-0147

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BNSF
Project Coordinator:

Bruce A. Sheppard
2454 Occidental Ave. S., Suite 1A
Seattle, WA 98134
Tel: 206-625-6035
Fax: 206-625-6007

(2) The Project Coordinators shall be available and have the authority to make day-to-day decisions necessary to complete the relevant SOW under this Consent Decree.

E. Notice and Samples

(1) Each Defendant shall make every reasonable effort to notify DEQ of any new excavation, drilling, or sampling to be conducted by that Defendant under this Consent Decree at least five working days before such activity but in no event less than 24 hours before such activity. Upon DEQ's verbal request, the sampling Defendant shall make available to DEQ a split or duplicate of any sample taken pursuant to this Consent Decree. DEQ shall provide both Defendants with copies of all analytical data from such samples as soon as practicable.

(2) In the event DEQ conducts any sampling or analysis in connection with this Consent Decree, DEQ shall make every reasonable effort to notify each Defendant of any excavation, drilling, or sampling at least five working days before such activity but in no event less than 24 hours before such activity. Upon either Defendants' verbal request, DEQ shall make available to the requesting Defendant a split or duplicate of any sample taken in connection with this Consent Decree and provide both Defendants with copies of all analytical data for such samples. Each Defendant shall provide DEQ with copies of all analytical data from such samples as soon as practicable.

F. Quality Assurance

(1) Defendants shall conduct all sampling, sample transport, and sample analysis in accordance with the Quality Assurance/Quality Control ("QA/QC") provisions

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approved by DEQ as part of the work plan. All plans prepared and work conducted under this Consent Decree shall be consistent with DEQ's "Environmental Cleanup Division Quality Assurance Policy No. 760.000." Defendants shall make every reasonable effort to ensure that the laboratory used by Defendants for analysis performs such analyses in accordance with such provisions. In the event that DEQ submits QA/QC sample(s) to either Defendant's laboratory, that Defendant shall also make every reasonable effort to ensure that such laboratory analyzes all samples submitted by DEQ for QA/QC monitoring in accordance with such provisions.

(2) In the event DEQ conducts sampling or analysis in connection with this Consent Decree, DEQ shall conduct sampling, sample transport, and sample analysis in accordance with the QA/QC provisions of the approved work plan. Upon written request, DEQ shall provide Defendants with DEQ records regarding such sampling, transport, and analysis.

G. Records

(1) In addition to those reports and documents specifically required under this Consent Decree, each Defendant shall provide to DEQ, within 10 days of DEQ's written request, copies of QA/QC memoranda and audits, raw data, task memoranda, field notes (not made by or at the direction of either Defendant's attorney), and laboratory analytical reports relating to the work to be performed under this Consent Decree.

(2) Each Defendant shall preserve all records and documents in possession or control of that Defendant or its employees, agents, or contractors that relate in any way to activities under this Consent Decree for at least five years after termination under Section 7 of this Consent Decree. Upon DEQ's request, each Defendant shall provide, or make available for copying by DEQ, copies of such nonprivileged records to DEQ. After five years and up to 10 years after termination, each Defendant shall provide DEQ 60 days notice before destruction or other disposal of such records or documents. Ten years after termination, neither Defendant shall have further obligation to preserve documents or records.

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(3) Each Defendant may assert a claim of confidentiality regarding any documents or records submitted to or copied by DEQ pursuant to this Consent Decree. DEQ shall treat documents and records for which a claim of confidentiality has been made in accordance with ORS 192.410 through 192.505. If a Defendant does not make a claim of confidentiality at the time the documents or records are submitted to or copied by DEQ, the documents or records may be made available to the public without notice to either Defendant.

H. Progress Reports

During each calendar quarter following entry of this Consent Decree, each Defendant shall deliver to DEQ on or before the tenth working day of each quarter a progress report containing:

(1) Actions taken by the reporting Defendant under this Consent Decree during the previous three months;

(2) Actions scheduled to be taken by the reporting Defendant in the next three months;

(3) A summary of sampling, test results, and any other data generated by the Defendant during the previous three months; and

(4) A description of any problems experienced by the reporting Defendant during the previous three months.

DEQ may approve less frequent reporting by either or both Defendants, if warranted. Progress reports may be submitted in electronic form. If submitted in hard-copy written form, two copies shall be provided to DEQ.

I. Other Applicable Laws

All activities under this Consent Decree shall be performed in accordance with all applicable federal, state, and local laws and regulations, except that, in accordance with ORS 465.315(3), the remedial actions performed by either Defendant in accordance with this Consent Decree are exempt from any on-site procedural or permitting requirements that might

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otherwise be applicable under ORS 466.005 to 466.385 and any regulations promulgated thereunder. This exemption does not preclude either Defendant from electing to obtain any necessary permits to satisfy requirements under ORS 466.005 to 466.385.

J. Reimbursement of DEQ Oversight Costs

(1) DEQ shall submit to BNSF a monthly invoice of costs actually and reasonably incurred by DEQ or the State of Oregon after approval of this Consent Decree by the Court in connection with any activities related to the Groundwater SOW, oversight of BNSF's implementation of this Consent Decree, and periodic review. Each invoice will include a summary of costs billed to date.

(2) DEQ shall submit to HSP a monthly invoice of costs actually and reasonably incurred by DEQ or the State of Oregon after approval of this Consent Decree by the Court in connection with any activities related to the Soil SOW, oversight of HSP's implementation of this Consent Decree, and periodic review. Each invoice will include a summary of costs billed to date.

(3) DEQ or State of Oregon oversight costs payable by each Defendant shall include direct costs, indirect costs, and costs authorized under ORS 465.333. Direct costs shall include site-specific expenses, DEQ contractor, and DEQ legal costs. DEQ's direct cost summary will include an Environmental Cleanup Division ("ECD") direct labor summary showing the persons charging time, the number of hours, and the nature of work performed. Indirect costs shall include those general management and support costs of DEQ and of the ECD allocable to DEQ oversight of this Consent Decree which are not charged as direct, site-specific costs. Indirect charges shall be based on actual costs and applied as a percentage of direct personal services costs. DEQ shall maintain work logs, payroll records, receipts, and other documents to document work performed and expenses incurred under this Consent Decree and, upon request, shall provide copies of such records to each Defendant during the term of this Consent Decree and for at least five years thereafter. After five years and up to

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10 years after termination, DEQ shall provide each Defendant 60 days notice before destruction or other disposal of such records or documents. Upon either Defendant's request, DEQ shall provide that Defendant with copies of such records or documents. Ten years after termination, DEQ shall have no further obligation to preserve such records or documents.

(4) Within 45 days of receipt of DEQ's invoice, each Defendant shall pay the amount of costs billed to that Defendant by check payable to the "State of Oregon, Hazardous Substance Remedial Action Fund" or invoke dispute resolution under Subsection 4.M. of this Consent Decree. After 45 days, any unpaid amounts that are not the subject of pending dispute resolution or that have been determined owing after dispute resolution shall become a liquidated debt collectible under ORS 293.250 or other applicable law.

(5) Each Defendant shall pay nine percent simple interest per annum on the unpaid balance of DEQ oversight costs billed to that Defendant, which interest shall begin to accrue 60 days from the date of the invoice. Interest on any amount disputed under Subsection 4.M. shall begin to accrue 60 days from final resolution of any such dispute.

K. Force Majeure

(1) If any event occurs that is beyond a Defendant's reasonable control and that causes or might cause a delay or deviation in performance of the requirements of this Consent Decree by that Defendant despite the due diligence of that Defendant ("force majeure"), that Defendant shall promptly, upon learning of the event, notify DEQ's Project Coordinator verbally of the cause of the delay or deviation, its anticipated duration, the measures that have been or will be taken to prevent or minimize the delay or deviation, and the timetable by which that Defendant proposes to carry out such measures. The Defendant shall confirm in writing this information within five working days of the verbal notification.

(2) If a Defendant demonstrates to DEQ's satisfaction that the delay or deviation has been or will be caused by force majeure, DEQ shall extend times for performance of related activities by that Defendant under this Consent Decree as appropriate.

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Circumstances or events beyond a Defendant's control might include but not be limited to acts of God, unforeseen strikes or work stoppages, delays in government action or approvals, fire, explosion, riot, sabotage, or war. Increased cost of performance or changed business or economic circumstances shall be presumed not to be circumstances beyond a Defendant's control.

L. DEQ Approvals

(1) Where DEQ review and approval is required for any plan or activity under this Consent Decree, the Defendant responsible for the plan or activity shall not proceed to implement the plan or activity until DEQ approval is received. Any DEQ delay in granting or denying approval shall correspondingly extend the time for completion by the Defendant. Prior approval shall not be required in emergencies; provided, the relevant Defendant shall notify DEQ immediately after the emergency and evaluate its impact on that Defendant's work. A "delay" for the purposes of this subsection shall constitute any time beyond the time allocated in the Soil SOW or Groundwater SOW for DEQ approval or denial of the activity, as calculated from the date of receipt by DEQ of any necessary report or notification from the relevant Defendant to receipt by that Defendant's Project Coordinator of DEQ's approval or denial.

(2) After review of any plan, report, or other item required to be submitted for DEQ approval under this Consent Decree, DEQ shall:

(a) approve the submission in whole or in part; or

(b) disapprove the submission in whole or in part and notify the relevant Defendant of its deficiencies and/or request modifications to cure the deficiencies.

(3) In the event of two deficient submittals of the same deliverable that are deficient for the same reasons due to the relevant Defendant's failure in good faith to cure the original deficiency, DEQ may modify the submission to cure the deficiency.

(4) DEQ approvals, rejections, or identification of deficiencies shall be

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given within the time specified in the Soil SOW or the Groundwater SOW or as soon as practicable in writing, and state DEQ's reasons with reasonable specificity.

(5) In the event of approval or modification of the submission by DEQ, the relevant Defendant shall implement the actions(s) required by the plan, report, or other item, as so approved or modified.

(6) In the event of DEQ disapproval or request for modification of a submission, the relevant Defendant shall, within 30 days of receipt of the DEQ notice or such longer time as may be specified in the notice, either correct the deficiencies and resubmit the revised report or other item for approval, or institute dispute resolution under Subsection 4.M. of this Consent Decree.

M. Dispute Resolution

(1) In the event a Defendant disagrees with DEQ regarding oversight costs, review and approval of any plan or activity, interpretation of data, or DEQ modifications of a deliverable, that Defendant shall promptly notify DEQ in writing of its objection. DEQ and the Defendant which initiated the dispute then shall make a good-faith effort to resolve the disagreement within 14 days of the Defendant's written objection. At the end of the 14-day period, DEQ shall provide the Defendant that initiated the dispute with a written statement of its position from the DEQ Northwest Region's Cleanup Manager. If the Defendant still disagrees with DEQ's position, then the Defendant which initiated the dispute, within 14 days of receipt of DEQ's position from the Cleanup Manager, shall provide that Defendant's position and rationale in writing to the DEQ Northwest Region Administrator. The Region Administrator may discuss the disputed matter with the Defendant which initiated the dispute and, in any event, shall provide that Defendant with DEQ's final position in writing as soon as practicable after receipt of Defendant's written position.

(2) If the Defendant initiating dispute resolution refuses or fails to follow DEQ's final decision pursuant to this Paragraph 4.M.(1), and DEQ seeks to (a) enforce its final

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decision, (b) collect stipulated penalties, (c) assess civil penalties, (d) collect reimbursement of DEQ oversight costs, or (e) collect costs related to any removal or remedial action performed by DEQ, the parties, subject to Section 2 of this Consent Decree, shall be entitled to such rights, remedies, and defenses as are provided by applicable law.

(3) During the pendency of any dispute resolution as provided in this subsection, the time for completion of work or obligations affected by such dispute shall be extended for a period of time not to exceed the actual time taken to resolve the dispute. Elements of work or obligations not affected by the dispute shall be completed in accordance with the applicable schedule approved pursuant to this Consent Decree.

N. Stipulated Penalties

(1) Subject to Subsections 4.K., 4.L., and 4.M. of this Consent Decree, upon any violation by a Defendant of any provision of this Consent Decree applicable to that Defendant, and upon that Defendant's receipt from DEQ of written notice of violation, that Defendant shall pay the stipulated penalties set forth in the following schedule:

(a) Up to $ 5,000 for the first week of violation or delay and up to $ 2,500 per day of violation or delay thereafter, for failure to allow DEQ access to the Site or provide records under Subsections 4.C. or 4.G.

(b) Up to $ 2,500 for the first week of violation or delay (but not exceeding $ 500 for any one day during the first week) and up to $ 1,000 per day of violation or delay thereafter, for:

(i) failure to submit a final work plan, addressing in good faith DEQ's comments on the draft work plan, in accordance with the relevant Scope of Work schedule and terms;

(ii) failure to complete the work in accordance with the approved work plan schedule and terms;

(iii) failure to submit a final report, addressing in good faith

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DEQ's comments on the draft report, in accordance with the approved work plan schedule and terms; or

(iv) violation by the Defendant or any authorized user of the Defendant's property of any covenant, restriction, or obligation contained in the License and Declaration of Restrictions (Attachment D to this Consent Decree).

(c) Up to $ 500 for the first week of violation or delay and up to $500 per day of violation or delay thereafter, for:

(i) failure to submit a good faith draft work plan in accordance with the relevant Scope of Work schedule and terms;

(ii) failure to submit good faith reports in accordance with the relevant Scope of Work schedule and terms; or

(iii) any other violation of the Consent Decree, relevant Scope of Work, or approved work plan.

(2) Violations arising out of the same facts or circumstances or based on the same deadline will be treated as one violation per day.

(3) Stipulated penalties shall not begin to accrue under this subsection until the Defendant receives a notice of violation from DEQ describing the violation and what is necessary to correct it. If the violation was not intentional, the violation is capable of cure, and the Defendant receiving notice corrects the violation within 30 days of receipt of such notice of violation or such other period as may be specified in the notice, DEQ shall waive the stipulated penalties. This opportunity to cure does not apply to violations subject to Subparagraph 4.N.(1)(a).

(4) Subject to Paragraph 4.N.(3), the Defendant receiving notice of a violation shall, within 30 days of receipt of the notice, pay the amount of such stipulated penalty by check made payable to the "State of Oregon, Hazardous Substance Remedial Action Fund" or request a contested case hearing in accordance with Paragraph 4.N.(5) below. The

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Defendant shall pay interest of nine percent per annum on the unpaid balance of any stipulated penalties, which interest shall begin to accrue at the end of the 30-day period.

(5) In assessing a penalty under this subsection, the Director may consider the factors set forth in OAR 340-012-0045, provided that such factors may not be used to increase a penalty beyond the amounts stipulated in this subsection. A Defendant may request a contested case hearing regarding the penalty assessment against that Defendant in accordance with OAR Chapter 340, Division 11. The scope of any such hearing shall be consistent with the stipulations set forth in Section 2 of this Consent Decree; shall be limited to the occurrence or non-occurrence of the alleged violation, or conditions precedent to the requirement allegedly violated; and shall not review the amount of the penalty assessed. Further penalties shall not accrue pending any contested case regarding the alleged violation.

(6) If DEQ assesses stipulated penalties pursuant to this section for any failure of a Defendant to comply with this Consent Decree, DEQ may not seek civil penalties from that Defendant for the same violation under ORS 465.900 or other applicable law.

O. Enforcement of Consent Decree

(1) In addition to assessment of stipulated penalties under Subsection 4.N. of this Consent Decree or civil penalties under ORS 465.900, DEQ may seek enforcement of this Consent Decree by this Court. If DEQ seeks enforcement of this Consent Decree by this Court, DEQ may seek monetary sanctions, such as civil penalties, only if DEQ has not assessed and collected any stipulated penalties under this Consent Decree regarding the same violation.

(2) Neither Defendant admits any liability, violation of law, or factual or legal findings, conclusions, or determinations made by DEQ under this Consent Decree.

(3) Nothing in this Consent Decree is intended to create any cause of action in favor of any person not a party to this Consent Decree.

(4) Neither this Consent Decree nor any judgment enforcing this Consent

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Decree shall be admissible in any judicial or administrative proceeding, except for proceedings by DEQ to enforce this Consent Decree, resolution of disputes under this Consent Decree, imposition or mitigation of sanctions for violation of this Consent Decree, in response to a citizen suit, or when offered by a Defendant for admission in any proceeding.

(5) Subject to Paragraph 2.A.(4) of this Consent Decree, nothing in this Consent Decree shall prevent either Defendant from exercising any rights of contribution or indemnification a Defendant might have against any person regarding activities under this Consent Decree.

P. Indemnification and Insurance

(1) BNSF shall indemnify and hold harmless the State of Oregon and its commissions, agencies, officers, employees, contractors, and agents from and against any and all claims arising from acts or omissions related to this Consent Decree of BNSF or its officers, employees, contractors, agents, receivers, trustees, or assigns after the date this Consent Decree is approved by the Court. The State of Oregon shall notify BNSF of any such claims or actions as soon as practicable after receiving notice that such a claim or action is threatened or has been filed. BNSF shall have the right to participate fully at its own expense in the defense or settlement of such claims, including the right to promptly receive related correspondence with the claimant and the opportunity to participate in related meetings and telephone conferences with the claimant. The State will confer with BNSF regarding litigation and settlement strategy and, to the extent practicable, will afford BNSF the opportunity to review and comment on all pleadings and settlement documents before they are filed with the court or sent to the claimant. BNSF shall have no obligations under this paragraph with respect to any claim settled or otherwise compromised without BNSF's having been provided the opportunity to participate in accordance with this paragraph. DEQ shall not be considered a party to any contracts made by BNSF or its agents in carrying out activities under this Consent Decree.

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(2) HSP shall indemnify and hold harmless the State of Oregon and its commissions, agencies, officers, employees, contractors, and agents from and against any and all claims arising from acts or omissions related to this Consent Decree of HSP or its officers, employees, contractors, agents, receivers, trustees, or assigns after the date this Consent Decree is approved by the Court. The State of Oregon shall notify HSP of any such claims or actions as soon as practicable after receiving notice that such a claim or action is threatened or has been filed. HSP shall have the right to participate fully at its own expense in the defense or settlement of such claims, including the right to promptly receive related correspondence with the claimant and the opportunity to participate in related meetings and telephone conferences with the claimant. The State will confer with HSP regarding litigation and settlement strategy and, to the extent practicable, will afford HSP the opportunity to review and comment on all pleadings and settlement documents before they are filed with the court or sent to the claimant. HSP shall have no obligations under this paragraph with respect to any claim settled or otherwise compromised without HSP's having been provided the opportunity to participate in accordance with this paragraph. DEQ shall not be considered a party to any contracts made by HSP or its agents in carrying out activities under this Consent Decree.

(3) To the extent permitted by Article XI, Section 7, of the Oregon Constitution and by the Oregon Tort Claims Act, the State of Oregon shall indemnify and hold harmless the Defendants and their respective officers, employees, contractors, and agents from and against any and all claims arising from acts or omissions related to this Consent Decree of the State of Oregon or its commissions, agencies, officers, employees, contractors, agents, or assigns (excepting acts or omissions constituting DEQ approval of a Defendant's activities under this Consent Decree). The relevant Defendant shall notify the State of Oregon of any such claims or actions as soon as practicable after receiving notice that such a claim or action is threatened or has been filed. The State of Oregon shall have the right to participate fully at its own expense in the defense or settlement of such claims, including the right to promptly

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receive related correspondence with the claimant and the opportunity to participate in related meetings and telephone conferences with the claimant. The relevant Defendant will confer with the State of Oregon regarding litigation and settleme... strategy and, to the extent practicable, will afford the State of Oregon the opportunity to review and comment on all pleadings and settlement documents before they are filed with the court or sent to the claimant. The State of Oregon shall have no obligations under this paragraph with respect to any claim settled or otherwise compromised without it having been provided the opportunity to participate in accordance with this paragraph. Neither Defendant shall be considered a party to any contract made by DEQ or its agents in carrying out activities under this Consent Decree.

(4) Before commencing any onsite work under this Consent Decree, each Defendant shall obtain and maintain for the duration of this Consent Decree comprehensive general liability and automobile insurance with limits of $1 million, combined single limit per occurrence, naming as an additional insured the State of Oregon. If a Defendant demonstrates by evidence satisfactory to DEQ that its contractor(s) or subcontractor(s) maintain equivalent coverage, or coverage for the same risks but in a lesser amount or for a lesser term, then that Defendant may provide only that portion of the insurance that is not maintained by its contractor(s) or subcontractor(s). Neither Defendant is required to maintain insurance to the extent it demonstrates that its contractor(s) or subcontractor(s) maintains equivalent insurance.

Q. Parties Bound

This Consent Decree shall be binding on the parties and their respective successors, agents, and assigns after the date this Consent Decree is approved by the Court. The undersigned representative of each party certifies that he or she is fully authorized to execute and bind such party to this Consent Decree. No change in ownership or corporate or partnership status relating to the Site shall in any way alter either Defendants' obligations under this Consent Decree, unless otherwise approved in writing by DEQ.

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R. Modification

DEQ and the Defendants may modify this Consent Decree by unanimous written agreement, subject to approval by this Court. DEQ and HSP may modify the Soil SOW or work plan without having to obtain court approval, provided the modification is consistent with the ROD and BNSF has been given reasonable notice prior to the modification. DEQ and BNSF may modify the Groundwater SOW or work plan without having to obtain court approval, provided the modification is consistent with the ROD and HSP has been given reasonable notice prior to the modification.

5. Contribution Actions

A. Pursuant to ORS 465.325(6)(b), neither Defendant shall be liable for claims for contribution regarding matters addressed in this Consent Decree.

B. Subject to Paragraph 2.A.(4) of this Consent Decree, nothing in this Consent Decree shall prevent either Defendant from exercising any rights of contribution or indemnification either Defendant might have against any person (other than another Defendant) regarding activities under this Consent Decree.

6. Covenants Not To Sue

A. Upon certification(s) of completion under Section 7 of this Consent Decree, the State of Oregon covenants not to sue or take administrative action against either Defendant concerning any liability to the State of Oregon under ORS 465.200 to 465.455 and 465.900 with regard to the release or threatened release of hazardous substances addressed by the certification(s) of completion; provided, this covenant shall not release either Defendant from future liability to DEQ resulting from:

(1) Failure of remedial action; or,

(2) Information unknown to DEQ at the time of certification(s) of completion showing that the remedial action is not protective of public health, safety, and welfare or the environment.

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B. DEQ reserves all rights against each Defendant with respect to any other matters, including but not limited to:

(1) Claims based on failure by the Defendant to meet any applicable requirement of this Consent Decree;

(2) Liability arising from disposal of hazardous substances removed from the facility by the Defendant;

(3) Liability under federal or state law for natural resource damages;

(4) Claims based on criminal liability;

(5) Any matters as to which the State of Oregon is owed indemnification by the Defendant under Subsection 4.P. of this Consent Decree;

(6) Liability for violations of federal or state law by the Defendant occurring during implementation of the work required under this Consent Decree;

(7) Liability for oversight costs incurred by DEQ in connection with this Consent Decree;

(8) Performance of contingency measures identified pursuant to Subsection 3.A. or 3.B. of this Consent Decree; and

(9) Liability arising from any release of hazardous substances to the Willamette River or sediments at the river, except to the extent the release is satisfactorily remediated by Defendants pursuant to this Consent Decree.

C. The Director of DEQ has determined that the above covenant not to sue will expedite the remedial action and is in the public interest, based on consideration of the factors set forth in ORS 465.325(7)(a) and (d).

D. So long as both Defendants are in compliance with their obligations under this Consent Decree, DEQ agrees not to undertake any enforcement or other adverse proceeding against BNSF with respect to the release of hazardous substances addressed by this Consent Decree. In the event HSP fails to perform its obligations under this Consent Decree related to

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the Soil SOW, DEQ reserves all rights against each Defendant with respect to soils remedial action.

E. So long as both Defendants are in compliance with their obligations under this Consent Decree, DEQ agrees not to undertake any enforcement or other adverse proceeding against HSP with respect to the release of hazardous substances addressed by this Consent Decree. In the event BNSF fails to perform its obligations under this Decree related to the Groundwater SOW, DEQ reserves all rights against each Defendant with respect to groundwater remedial action.

7. Certification(s) of Completion; Termination

A. Upon BNSF's submission, in accordance with the Groundwater SOW, of a final project closeout report and a request for certification of completion, DEQ shall preliminarily determine whether the groundwater remedial action has been fully and satisfactorily performed in accordance with this Consent Decree. For purposes of this certification, the groundwater remedial action is defined to include commencement of groundwater monitoring and completion of the Tanner Creek evaluation and any Tanner Creek mitigative measure, but to exclude long-term operation, maintenance, and reporting relating to the groundwater monitoring and any Tanner Creek mitigative measure. Upon a preliminary determination that the groundwater remedial action, as so defined, has been fully and satisfactorily performed, DEQ shall provide public notice and opportunity to comment on a proposed certification decision in accordance with ORS 465.320 and 465.325(10)(b). After consideration of public comment, and within 90 days after receiving BNSF's project closeout report, the Director of DEQ shall issue a final certification decision. The certification decision shall subsequently be submitted by DEQ to this Court.

B. Upon HSP's completion of work in accordance with the Soil SOW for a portion of the Site, HSP shall submit a final closeout report to DEQ signed both by an Oregon-registered professional engineer and HSP's Project Coordinator certifying that the remedial

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action for that portion of the Site has been completed in accordance with this Consent Decree. The report shall summarize the work performed and include all necessary supporting documentation. The report shall include a legal description of the portion of the Site for which the work required under this Consent Decree has been completed and for which HSP requests certification of completion. Except with prior approval from DEQ, HSP shall not request certification of completion for an area of less than one city block (approximately 40,000 square feet). DEQ shall preliminarily determine whether the soils remedial action has been fully and satisfactorily performed for the identified portion of the Site in accordance with this Consent Decree. Upon a preliminary determination that the soils remedial action for a portion of the Site has been fully and satisfactorily performed, DEQ shall provide public notice and opportunity to comment on a proposed certification decision in accordance with ORS 465.320 and 465.325(10)(b). After consideration of public comment, and within 90 days after receiving HSP's closeout report, the Director of DEQ shall issue a final certification decision. The certification decision shall subsequently be submitted by DEQ to this Court.

C. Subject to the jurisdiction of this Court under ORS 465.325(10)(c), upon any filing of a DEQ certification of completion for the groundwater remedial action before termination of this Consent Decree under Subsection 7.D., BNSF shall be relieved of its obligations under the following sections of this Consent Decree, except as necessary for long-term operation, monitoring, and reporting related to groundwater monitoring and any Tanner Creek mitigative measure: 3.A. (RD/RA); 4.A. (supervising contractors); 4.B. (financial assurance); 4.E. (notice and sampling); 4.F. (quality assurance); 4.H (progress reports); 4.N. (stipulated penalties); and, 4.P.(4) (insurance).

D. Subject to the jurisdiction of this Court under ORS 465.325(10)(c), this Consent Decree shall be deemed satisfied and terminated upon filing of DEQ's certification(s) of completion both for the groundwater remedial action and the soil remedial action (for all portions of the Site) and payment by the Defendants of any and all outstanding costs and

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penalties. The following Consent Decree obligations of Defendants or DEQ, as applicable, shall survive termination: Subsections 3.A.(long-term operation, maintenance, and reporting related to groundwater monitoring and any Tanner Creek mitigative measure); 3.C. (site restrictions); 4.C. (access); 4.G. (records preservation and confidentiality), 4.J. (periodic review costs; documentation of oversight costs); and 4.P. (indemnification).

E. Notwithstanding termination of this Consent Decree, this Court retains jurisdiction over both the subject matter of this Consent Decree and the parties regarding the surviving obligations referenced in Subsection 7.D.

IT IS SO ORDERED this 8th day of February, 2002.

Circuit Court Judge, Multnomah County
WILSON

STATE OF OREGON
DEPARTMENT OF ENVIRONMENTAL QUALITY

By: Neil Mullane Date: 1-31-02

Neil Mullane
Administrator, Northwest Region

By: Kurt Burkholder Date: 1-31-02

Kurt Burkholder, OSB No. 80465
Assistant Attorney General
Oregon Department of Justice
1515 SW Fifth Avenue, Suite 410
Portland, OR 97201
Attorney for DEQ

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THE BURLINGTON NORTHERN
AND SANTA FE RAILWAY COMPANY

By: _____ Date: 1/24/02
Jeffrey R. Moreland
Sr. Vice President and Chief of Staff

By: _____ Date: 1/16/02
Craig Trueblood, OSB No. 860076
Preston Gates & Ellis, LLP
701 Fifth Ave., Suite 5000
Seattle, WA 98104-7078
Attorney for The Burlington Northern and Santa Fe Railway Company

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HOYT STREET PROPERTIES, LLC

By: _____ Date: 1/14/02
Tiffany Sweitzer
Executive Director

By: _____ Date: January 14, 2002
Richard Allan
Ball Janik LLP
101 SW Main St., Suite 1100
Portland, OR 97204
Attorney for Hoyt Street Properties, LLC

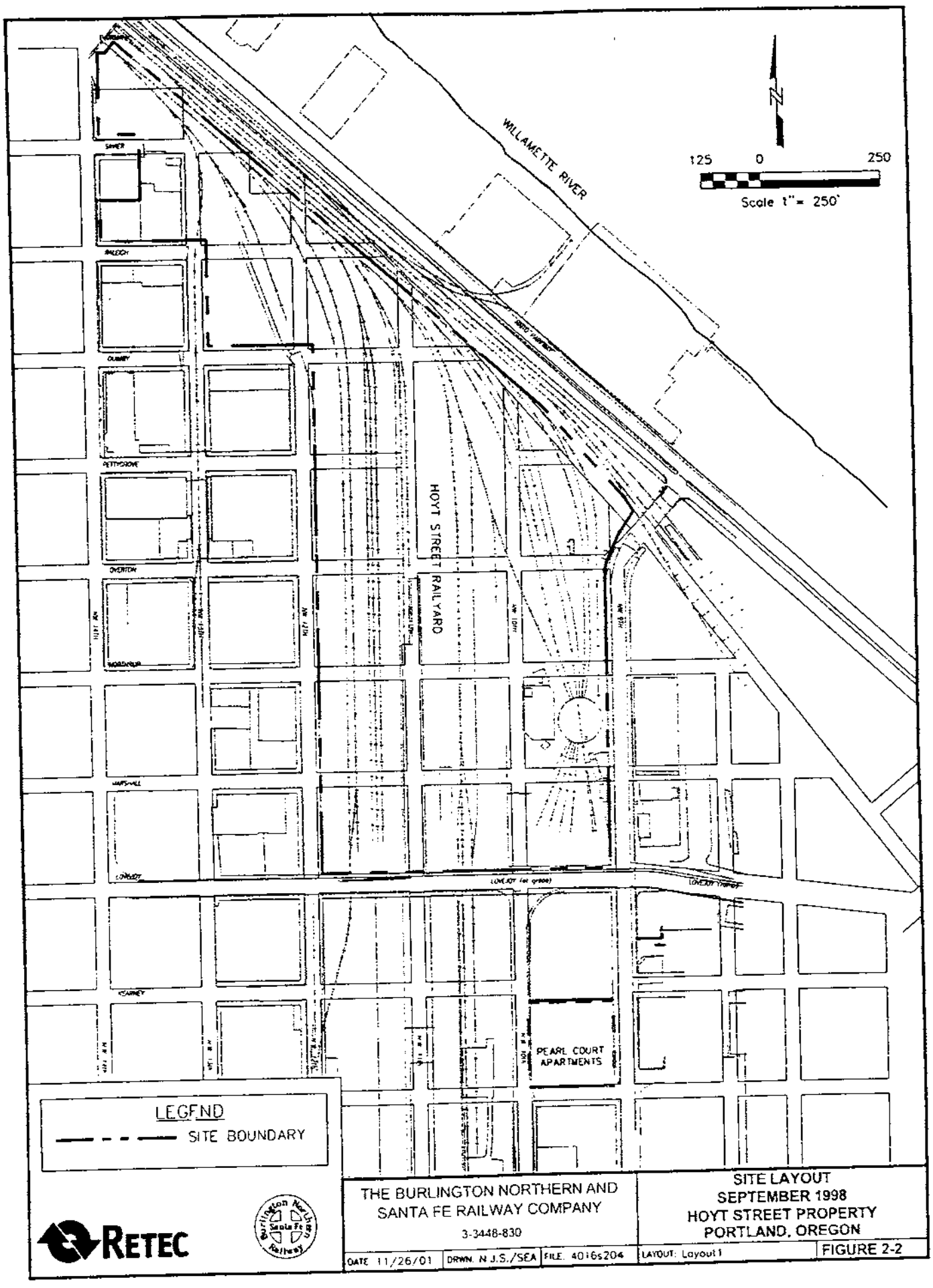
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ATTACHMENT A

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ATTACHMENT A



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ATTACHMENT B

FORMER HOYT STREET RAILYARD

GROUNDWATER REMEDIAL DESIGN/REMEDIAL ACTION SCOPE OF WORK

I. SCHEDULE AND OBJECTIVES

Within 45 days of issuance of the Consent Decree, the Burlington Northern and Santa Fe Railway Company (BNSF) shall submit for DEQ review and comment a draft work plan for Remedial Design (RD) and Remedial Action (RA) at the facility. Within 30 days of receipt of DEQ's written comments on the draft RD/RA work plan, BNSF shall submit to DEQ for approval a final RD/RA work plan addressing DEQ's comments.

The objectives of the Remedial Design and Remedial Action are to attain the degree of cleanup of hazardous substances and control of further release of hazardous substances as established in the Record of Decision (ROD). The objectives shall be consistent with the requirements set forth in the Environmental Cleanup Rules, Oregon Administrative Rules (OAR) 340-122-010 to 115, and the Environmental Cleanup Laws, Oregon Revised Statutes (ORS), Chapter 465.

The institutional controls for groundwater specified in Section 7.2.2 of the ROD will be implemented through the Soil Scope of Work (Attachment C to the Consent Decree). This Groundwater Scope of Work also does not address remedial action that may be required as a result of groundwater conditions that arise in the future from the development activities permitted under the ROD and the Soil Scope of Work.

II. REMEDIAL DESIGN/REMEDIAL ACTION DELIVERABLES

A. GROUNDWATER REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN

The RD/RA Work Plan shall be developed in conformance with DEQ's Record of Decision (ROD); this Scope of Work; and as appropriate, EPA's "Superfund Remedial Design Remedial Action Guidance", OSWER Directive 9355.0-4A, 1986; "Guidance on Expediting Remedial Design and Remedial Action", OSWER Directive 9355.5-02; and any additional guidance documents as directed by DEQ.

The RD/RA Work Plan shall be prepared for all activities conducted during remedial design and remedial action and include, at a minimum, the following items:

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1. Description of all proposed remedial design and remedial action activities to be performed.

2. Proposed schedule for submittal of RD/RA deliverables and implementation of all required RD and RA activities.

3. Summary of selected remedy and cleanup levels.

4. Identification and description of design objectives.

5. Identification and description of design criteria and performance standards that shall be applied to the remedial activities conducted by BNSF.

6. Identification and listing of federal, state, or local laws, regulations, or guidance applicable to or associated with the remedial action and an explanation of how they will be incorporated into the design and implementation of the remedial action.

7. An assessment of permitting requirements and a plan for satisfying any applicable requirements.

8. Identification and description of site access agreements required to implement RA activities, if any.

9. A description of the proposed approach to investigating and evaluating the Tanner Creek sewer and backfill as migration pathways of site contaminants to the Willamette River, and, if occurring, whether the migration of site contaminants results in a significant adverse effect on beneficial uses of the Willamette River, as defined in OAR 340-122-0115(50), or poses an unacceptable risk to human or ecological receptors exposed to surface water or sediments. Details of this investigation and evaluation shall be submitted as a separate deliverable (Item II.B.).

B. TANNER CREEK SEWER INVESTIGATION AND EVALUATION WORK PLAN

A draft work plan shall be prepared and submitted for DEQ review and comment to address the investigation and evaluation of the Tanner Creek sewer and backfill as migration pathways of site contaminants to the Willamette River, and, if occurring, whether the migration of site contaminants results in a significant adverse effect on beneficial uses of the Willamette River, as defined in OAR 340-122-0115(50), or poses an unacceptable risk to human or ecological receptors exposed to surface water or sediments. A final work plan shall be submitted for DEQ approval addressing DEQ's comments on the draft work plan.

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The Tanner Creek Sewer Investigation and Evaluation Work Plan shall include, at a minimum:

1. Objectives of the investigation and evaluation.

2. Scope and approach for proposed work.

3. Detailed description of work to be conducted.

4. Summary of previous investigations, including associated relevant data, that assessed impacts to the Tanner Creek sewer and backfill from site contamination.

5. Identification of data requirements, data gaps, and data quality objectives.

6. Detailed description of the approach to evaluating significant adverse effects on beneficial uses of the Willamette River and risks to human and ecological receptors from exposure to site contaminants in surface water and sediments as a result of the migration of site contaminants in the Tanner Creek sewer or backfill.

7. Schedule for work to be performed, including deliverables.

8. Sampling and Analysis Plan as detailed in Item II.C.

9. Approach to evaluating feasibility of mitigation measures based on criteria in OAR 340-122-085 and 090.

C. GROUNDWATER SAMPLING AND ANALYSIS PLAN (SAP)

The SAP shall be prepared for all proposed sampling and monitoring activities conducted during the investigation and evaluation of the Tanner Creek sewer and backfill as migration pathways of site contaminants to the Willamette River, and, if occurring, whether the migration of site contaminants results in a significant adverse effect on beneficial uses of the Willamette River, as defined in OAR 340-122-0115(50), or poses an unacceptable risk to human or ecological receptors exposed to surface water or sediments.

A draft SAP shall be submitted with the draft Tanner Creek Sewer Investigation and Evaluation Work Plan for DEQ review and comment. A final SAP shall be submitted with the draft Tanner Creek Sewer Investigation and Evaluation Work Plan for DEQ approval addressing DEQ's comments on the draft SAP. This SAP need not address long-term groundwater monitoring, which is addressed in Item II.H., Groundwater Monitoring and Contingency Plan.

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In preparation of the SAP, the following guidance documents shall be utilized: DEQ Environmental Cleanup Division's Quality Assurance Policy 760; and as appropriate, "Data Quality Objectives Process for Superfund", EPA 540-R-93-071, September, 1993; "Data Quality Objectives for Remedial Response Activities", EPA/540/G-87/004 (OSWER Directive 9355.0-7B), March 1987; "Test Methods for Evaluating Solid Waste", SW-846; and "A Compendium of Superfund Field Operations Methods", EPA/540/P-87/001 (OSWER Directive 9355.0-14), December 1987.

The SAP shall include, at a minimum:

1. Proposed sampling locations, frequency, parameters, and rationale.

2. A description of sample collection techniques, sampling equipment, and sample handling procedures.

3. A description of proposed analytical or test methods.

4. A description of quality assurance and quality control (QA/QC) procedures for both field and laboratory activities, including a data quality objectives plan.

5. Documentation and data reporting.

6. A description of data analysis and interpretation methods.

7. Description of procedures for management of investigation-derived wastes.

D. GROUNDWATER RD/RA HEALTH AND SAFETY PLAN

A Site Health and Safety Plan shall be prepared to address all field activities conducted during the remedial design and remedial action phases for the groundwater remedy and include construction hazards, chemical exposure hazards, on-site worker safety, and measurement of potential off-site impacts.

The Site Health and Safety Plan shall be developed in accordance with "Standard Operating Safety Guides", EPA, Office of Emergency and Remedial Response, 1988; and applicable standards promulgated by the U.S. Occupational Safety and Health Administration including Hazardous Waste Operations and Emergency Response, 29 CFR 1910.120; General Industry Standards, 29 CFR 1910; and the Construction Industry Standards, 29 CFR 1926.

The Site Health and safety Plan shall include at a minimum:

1. Scope and applicability of plan.

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2. Identification and responsibilities of key health and safety personnel.

3. Task/operation safety and health risk analysis for each site task and operation, including description of known hazards and risks and procedures for assessing risks.

4. Personnel training requirements.

5. Personal protective equipment to be used.

6. Medical surveillance requirements.

7. Air monitoring requirements, including types and frequency. Describe air monitoring methods to be used.

8. Site control measures, including communication, site security, and work zone delineation.

9. Decontamination plan for personnel, equipment, and facilities.

10. Emergency response/contingency plan.

11. Confined space entry procedures.

12. Spill containment program.

13. Identification of potential construction hazards and precautionary measures to minimize hazards.

The Groundwater Health and Safety Plan shall be submitted with the draft Tanner Creek Sewer Investigation and Evaluation Work Plan and include those elements above, as applicable, to address all field activities to be conducted during the Tanner Creek sewer investigation. If mitigative measures are required to address the migration of site contaminants in the Tanner Creek sewer or backfill that results in a significant adverse effect on beneficial uses of the Willamette River, as defined in OAR 340-122-0115(50), or an unacceptable risk to human or ecological receptors exposed to surface water or sediments, then a revised Site Health and Safety Plan shall be submitted with the subsequent draft design documents (Item II.F.) and include those elements above, as applicable, to address all mitigative measures.

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E. TANNER CREEK SEWER INVESTIGATION REPORT

A draft Tanner Creek Sewer Investigation Report shall be prepared and submitted for DEQ review and comment presenting the results of the investigation and evaluation of the Tanner Creek sewer and backfill as migration pathways of site contaminants to the Willamette River, and, if occurring, whether the migration of site contaminants results in a significant adverse effect on beneficial uses of the Willamette River, as defined in OAR 340-122-0115(50), or poses an unacceptable risk to human or ecological receptors exposed to surface water or sediments. A final Tanner Creek Sewer Investigation Report shall be submitted for DEQ approval addressing DEQ's comments on the draft report.

The Tanner Creek Sewer Investigation Report shall include, at a minimum:

1. Discussion of investigative procedures.

2. Presentation and discussion of analytical results.

3. Summary and conclusions of investigation.

4. Presentation and discussion of evaluation of significant adverse effects on beneficial uses of the Willamette River and risks to human and ecological receptors from exposure to site contaminants in surface water and sediments as a result of the migration of site contaminants in the Tanner Creek sewer or backfill.

5. Results of evaluation of mitigative measures, if applicable.

6. Recommendations for mitigative measures to address contaminant migration that results in a significant adverse effect on beneficial uses of the Willamette River or an unacceptable risk to human and ecological receptors from exposure to site contaminants in surface water and sediments, if applicable.

F. DESIGN AND IMPLEMENTATION PLANS

If, based on the results of the Tanner Creek sewer investigation, DEQ has determined that mitigative measures are necessary to address significant adverse effects on beneficial uses of the Willamette River from site contaminant migration or unacceptable risks to human and ecological receptors from exposure to site contaminants in surface water and sediments, then design and implementation plans shall be submitted to DEQ for review and approval. Design and implementation plans shall be submitted in the following phases:

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1. PRELIMINARY DESIGN

Upon completion of approximately 50% of the remedial design effort, and prior to submittal of the Prefinal Design Plan (Item F.2.), BNSF shall make an oral presentation to DEQ. The objective of this presentation is to identify and allow correction of any problem areas before extensive design has been completed.

The presentation shall include the following:

a. Design objectives, criteria, and standards.

b. Description of design elements.

c. Preliminary drawings and schematics.

d. Description of problems encountered that could result in a delay of the project schedule.

e. Preliminary construction schedule.

2. PREFINAL DESIGN PLAN(90% complete)

The Prefinal Design Plan shall contain a compilation of major design items reflecting an approximate 90% completion of the design effort. This report shall serve as the draft design report. The report shall contain, at a minimum:

a. Design criteria/standards.

b. Final design/analyses calculations.

c. Drawing index and final drawings.

d. Final specifications.

e. Final construction schedule.

f. Summaries of treatability studies, bench or pilot scale studies, or other engineering studies conducted during the design phase, including results and conclusions.

g. Description of permitting requirements to include:

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i) construction/operating permits required.

ii) permitting authorities and specific permit requirements.

iii) permit application processing procedures, schedule, and fees.

iv) monitoring and compliance testing requirements.

h. Equipment startup and operator training requirements to include:

i) contractor/vendor procedures for providing appropriate service visits by experienced personnel to supervise installation, adjustment, startup, and operation of treatment systems.

ii) identification of appropriate operational procedures training for personnel.

i. Description of proposed control measures to minimize releases of hazardous substances to all environmental media during construction or installation activities.

j. Description of proposed surface water runoff control measures during construction.

k. Identification and description of dust control and noise abatement measures to minimize and monitor environmental impacts of construction or installation activities.

l. Identification and description of any site security measures necessary to minimize exposure to hazardous situations during remedial action.

m. Operation and Maintenance Plan, as applicable, and as detailed in Item II.G.

3. FINAL DESIGN (100% complete)

The Final Design Report shall be submitted for DEQ approval, incorporating revisions resulting from DEQ's review and comments on the Prefinal Design Report. The Final Design Report shall provide the basis for the remedial action activities to be undertaken at the facility. The Final Design Report shall include the elements described above, 100% complete.

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4. IMPLEMENTATION

Upon DEQ approval of the Final Design Report, the remedial measures shall be performed in accordance with the design plans and schedule.

G. OPERATION AND MAINTENANCE PLAN

If mitigative measures will result in the requirement for operational and maintenance activities, then an Operation and Maintenance (O&M) Plan shall be prepared detailing the specific operation and maintenance requirements for each constructed or installed component of the completed project.

A draft O&M Plan shall be submitted with Prefinal Design Report (90%) for DEQ review and comment, and include, at a minimum, those items listed below. A final O&M Plan shall be submitted with the Final Design Report (100%) for DEQ approval addressing DEQ's comments on the draft O&M Plan.

1. Description of equipment and monitoring components and equipment replacement schedule.
2. Description of normal O&M tasks, prescribed treatment or operation conditions, and frequency schedule of O&M tasks.
3. Description and analysis of potential operating problems, sources of information for trouble-shooting, and common remedies.
4. Description of routine monitoring, inspection, and laboratory testing requirements, associated QA/QC requirements, and monitoring locations, parameters, and frequency.
5. Description of alternate O&M to prevent undue hazard in the event of system failure.
6. Description of safety procedures and equipment required for operators during normal operations and in the event of systems failure.
7. Records management plan to include daily operating logs, laboratory results, operating costs, and maintenance activities.
8. Reporting procedures to address emergencies.
9. Proposed schedule for O&M report submittals to DEQ.

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H. GROUNDWATER MONITORING AND CONTINGENCY PLAN

The objectives of the Groundwater Monitoring and Contingency Plan are to monitor contaminant concentrations and migration, evaluate the effectiveness of source removals, LNAPL removal, and other remedial actions that have occurred at the site, and verify results of the fate and transport modeling conducted as part of the groundwater beneficial use assessment and hot spot determination for groundwater. The plan shall also propose response actions to occur in the event that the evaluation of groundwater monitoring data show contaminant levels have significantly increased or are migrating, and pose an unacceptable risk to human health or the environment, or cause a significant adverse effect on beneficial uses of the groundwater or surface water, as defined in OAR 340-122-0115(50).

A draft Groundwater Monitoring and Contingency Plan shall be submitted for DEQ review and comment. A final plan shall be submitted for DEQ approval addressing DEQ's comments on the draft plan. The Groundwater Monitoring and Contingency Plan shall include, at a minimum:

1. Proposed length of groundwater monitoring period.

2. Proposed groundwater monitoring locations, frequency, and parameters.

3. A description of sample collection techniques, sampling equipment, and sample handling procedures.

4. A description of proposed analytical or test methods.

5. A description of quality assurance and quality control (QA/QC) procedures for both field and laboratory activities, including a data quality objectives plan.

6. Documentation and data reporting, including a proposed schedule for data report submittals.

7. Description of methods for data analysis, including modeling and statistical methodology, for evaluating changes in groundwater quality, contaminant migration, and attainment of remedial action objectives and requirements as specified in the ROD.

8. Proposed trigger mechanisms and assessment criteria that would warrant evaluation of contingency measures.

9. Description of assessment criteria for modifications to long-term groundwater monitoring program.

10. Description of how investigation-derived waste will be managed.

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11. Description of periodic reviews of beneficial water uses to be conducted to include procedures and schedule.

12. Contingency plan to include an identification of potential response actions and description of the procedures and process for evaluating and implementing potential response actions.

I. GROUNDWATER MONITORING REPORTS

Groundwater monitoring reports and periodic water use review reports shall be submitted in accordance with the terms and schedules set forth in the DEQ-approved Groundwater Monitoring and Contingency Plan (Item II.H.).

J. PROJECT CLOSEOUT REPORT

At the completion of the groundwater remedial action construction activities as identified in Item II.F., BNSF shall conduct a final inspection and submit a draft Project Closeout Report for DEQ review and comment. A final Project Closeout Report shall be submitted for DEQ approval addressing DEQ's comments on the draft report. The Project Closeout Report shall include, at a minimum:

1. Results of the final inspection, including a brief description of any problems discovered during the final inspection and the resolution of those problems.

2. A detailed description of all work conducted in accordance with the approved final design plans and specifications, and certification by an Oregon-Registered Professional Engineer and Respondent's Project Coordinator that the work was performed in accordance with all approved plans and specifications.

3. Explanation of any modifications to the approved plans and specifications and why these modifications were necessary.

4. Final, as-built drawings, if different from final design drawings previously submitted under Item F.2 or F.3.

5. Copy of final permits as applicable.

6. Results of verification sampling, including data validation, and certification that the required remedial action criteria have been attained, and/or sampling results verifying

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that the remediation performs according to design specifications, as appropriate for the remedial design and remedial action phases.

7. Explanation of additional O&M (including monitoring) to be undertaken at the site.

If no mitigation measures are required, then the draft Project Closeout Report may be submitted after DEQ approval of the Tanner Creek Investigation Report (Item II.E.) and the Groundwater Monitoring and Contingency Plan (Item II.H.). A final Project Closeout Report shall be submitted for DEQ approval addressing DEQ's comments on the draft report. The Project Closeout report shall include the following:

1. A brief description of work conducted in accordance with this SOW and certified by BNSF Project Coordinator that the work was performed in accordance with approved plans.

2. Brief description of remaining work to be performed for the groundwater remedy as required by the ROD, Consent Decree, and this SOW.

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ATTACHMENT C

FORMER HOYT STREET RAILYARD

SOIL REMEDIAL DESIGN/REMEDIAL ACTION
SCOPE OF WORK

I. SCHEDULE AND OBJECTIVES

Within 45 days of issuance of the Consent Decree, Hoyt Street Properties LLC (HSP) shall submit for DEQ review and comment a draft work plan for Remedial Design (RD) and Remedial Action (RA) at the facility. Within 30 days of receipt of DEQ's written comments on the draft work plan, HSP shall submit to DEQ for approval a final RD/RA work plan addressing DEQ's comments.

The objectives of the Remedial Design and Remedial Action are to attain the degree of cleanup of hazardous substances and control of further release of hazardous substances as established in the Record of Decision (ROD). The objectives shall be consistent with the requirements set forth in the Environmental Cleanup Rules, Oregon Administrative Rules (OAR) 340-122-010 to 115, and the Environmental Cleanup Laws, Oregon Revised Statutes (ORS), Chapter 465.

This Soil Scope of Work includes all items specified for the selected soil remedial alternative under Sections 7.2.1 and 7.2.3 of the ROD:

- Excavation and treatment and or landfill disposal of hot spot soils. (This requirement was completed by BNSF as an interim removal action).
- Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil. (This requirement was completed by BNSF as an interim removal action).
- Excavation of soil in utility corridors where concentrations exceed the construction worker RBCs in the upper five feet of soil.
- Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements.
- Institutional controls.
- Periodic reviews.

The cap will be installed during, and coordinated with site redevelopment. If no redevelopment occurs for portions of the site within 15 years from December 15, 2000, those areas will be capped.

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The soil SOW will also include a description of the groundwater institutional controls covered in Section 7.2.2 of the ROD. The soil SOW will include implementation of the groundwater institutional controls.

II. REMEDIAL ACTION PHASING

The remedial work will be phased as the Hoyt Street Yards residential, commercial development progresses. Phases 1 and 2 earthwork activities, with the associated soil remediation, have been completed. That work was documented in the Hoyt Street Yards Phases 1 and 2, Environmental Construction Report prepared by IT Corporation and submitted to DEQ on February 22, 2001. The Excavation and Grading plans for Phases 3 and 4 have been submitted to the City of Portland for permit review. The schedule for Phases 3 and 4 earthwork is not certain, but is anticipated to begin in late 2001 or in 2002. DEQ will be kept informed on the status of the schedule as that information becomes available.

Because the site development schedule is uncertain, the soil SOW cannot include a detailed schedule for accomplishing the soil scope of work at the site. For those years where there are earthwork or other construction activities related to capping, HSP will provide DEQ with an annual status report of the capping achievements. For those years where there have been no earthwork or other type of capping activities, HSP will provide an annual capping status report to DEQ with an estimated future schedule of development. If HSP has not completed the soil scope of work by November 15, 2014, HSP will provide a report to DEQ by the 14th anniversary date of the ROD describing how HSP will meet the requirements of the soil SOW by the 15th anniversary of the ROD.

III. RD/RA DELIVERABLES

A. SOIL REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN

The Soil RD/RA work plan and associated documents shall be developed in conformance with DEQ's ROD, and this Scope of Work. The RD/RA work plan will include the following sections and associated plans.

1. Description of remedy objectives and requirements as specified in the ROD.
2. Estimated schedule for submittal of RD/RA deliverables.
3. Project organization, personnel and communication plan.
4. Assessment of permitting requirements and plan for satisfying same.

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5. Contaminated Media Management Plan. (Item III.B.)

6. Health and Safety Plan. (Item III.C.)

7. Sampling and Analysis Plan. (Item III.D.)

8. Engineering and Institutional Control Plan. (Item III.E)

9. The RD/RA work plan will contain sections that describe the criteria and process for the following activities.

   a. Earthwork and Cap Design.

   b. Construction Inspection and Certification.

   c. Post-Construction Cap Inspection and Maintenance. The elements of this plan relating to rights-of-way and parks will be developed in cooperation with the City of Portland Department of Transportation and Parks Department, and may be submitted after the RD/RA Work Plan.

B. CONTAMINATED MEDIA MANAGEMENT PLAN

A draft Contaminated Media Management Plan shall be prepared and submitted for DEQ review and comment. A final Contaminated Media Management Plan shall be submitted for DEQ approval addressing DEQ's comments on the draft plan.

The plan shall adhere to the ROD requirements and include protocols for handling contaminated media during site development earthwork activities. The plan shall address handling, treatment, storage, reuse, and disposal of contaminated soil, storm water, groundwater, and construction debris. Contaminated media shall be managed in a manner which minimizes worker exposure and environmental releases and meets applicable laws and rules regarding disposal. Wherever possible, the protocols will be the same as those presented in the Phases 1 and 2 Interim Remedial Action Plan, as approved by DEQ and the City of Portland.

C. SOIL HEALTH AND SAFETY PLAN

A soil Health and Safety Plan (HASP) shall be prepared to address all field activities conducted during implementation of the soil remedial action and include construction hazards, chemical exposure hazards, on-site worker safety, and measurement of potential off-site impacts. The soil HASP will be adapted from the HASP that was used for the Phases 1 and 2 earthwork activities. That HASP was developed in cooperation with Oregon OSHA. Because the site will be developed in phases, the HASP could be modified prior to each phase, to account for new

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industrial hygiene or chemical exposure standards. Any modifications to the HASP will be submitted to DEQ prior to implementation of that phase of work.

D. SOIL SAMPLING AND ANALYSIS PLAN

A draft Soil Sampling and Analysis Plan (SAP) shall be submitted for DEQ review and comment. A final Soil SAP shall be submitted for DEQ approval addressing DEQ's comments on the draft plan.

The Soil SAP shall address field protocols and procedures to be used for sampling of environmental media during implementation of the soil remedial action and site development earthwork activities. The plan will identify quality assurance and quality control objectives for field and laboratory testing activities. The criteria for classifying onsite reuse and disposal options for contaminated media will be described and will conform to the requirements of the ROD. The rationale to be used for designing sampling plans for each development phase will be described. The actual sampling locations for each phase will be provided to DEQ in memorandum format prior to each phase of development.

E. ENGINEERING AND INSTITUTIONAL CONTROL PLAN

The engineering and institutional control plan will describe the method of implementation of the following engineering and institutional controls. The plan will meet the requirements of the ROD, Section 7.2.1.

1. Predevelopment fencing and site security.

2. Stormwater and erosion control measures to protect soil cap areas.

3. Property deed restrictions.

4. Cap inspection and maintenance.

5. Groundwater institutional controls.

F. EARTHWORK AND CAP DESIGN

The RD/RA work plan shall include a range of design alternatives for cap materials, including streets, building foundations, sidewalks, and soil caps. The RD/RA work plan will include a cross section of the proposed street pavement, including subgrade. The work plan will also include alternative cross sections for sidewalks, one to be constructed on blocks with underground parking, and one for sidewalks where there is no underground parking. Alternative sections for building foundations will also be provided. These will be proposed as the range of

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design alternatives suitable for capping, per the objectives of the ROD. Proposed designs for soil caps in park and landscape areas will also be provided.

The RD/RA work plan will not include block specific maps of proposed streets, sidewalks, buildings, or other details of areas proposed to be capped, because those details have not yet been determined beyond Phases 1 and 2.

Prior to construction of any phase of development the following documents will be submitted to DEQ.

1. Excavation and Grading Plans developed for submittal to City Portland.

2. Street Improvement Plans developed for submittal to City Portland.

3. Sidewalk Improvement Plans developed for submittal to City Portland.

4. Map of each construction phase showing the planned locations of buildings, streets, sidewalks, and parks.

G. CONSTRUCTION INSPECTION AND CERTIFICATION PLAN

The construction inspection and certification plan will identify responsibilities and describe the process for conducting inspections and certifications of constructed components of the cap. The plan will describe how the City of Portland inspection and certification program will be incorporated into the inspection and certification plan for the site.

For construction inspections, the following responsibilities have been identified:

1. City of Portland field inspectors will be responsible for inspection of streets, sidewalks, building foundations, and utilities.

2. HSP, LLC, using IT Corporation, will be responsible for field inspections during site development earthwork activities and construction of the soil caps.

For construction certifications, the following responsibilities have been identified:

1. The City of Portland Office of Transportation issues written acceptance of the construction of streets and sidewalks (i.e.; beginning of one-year maintenance period). HSP will provide DEQ with documentation upon acceptance by the City. For those blocks with underground parking, the sidewalks are not part of the cap. In those cases a determination that the soil remedy is complete would not require documentation of City acceptance of the sidewalk.

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2. The City of Portland Bureau of Buildings issues written acceptance of building foundations. HSP will provide DEQ with documentation upon acceptance by the City.

H. POST-CONSTRUCTION CAP INSPECTION AND MAINTENANCE PLAN

An Inspection and Maintenance Plan shall be prepared to describe the specific post-construction inspection and maintenance requirements for the various cap designs and engineering controls. A draft Inspection and Maintenance Plan shall be submitted for DEQ review and comment. The elements of this plan related to rights-of-way and parks will be developed in cooperation with the City of Portland Department of Transportation and Parks Department, and may be submitted after the RD/RA Work Plan. A final Inspection and Maintenance Plan shall be submitted for DEQ approval addressing DEQ's comments on the draft plan.

The Post-Construction Inspection and Maintenance Plan shall include, at a minimum:

1. Description of inspection requirements and schedule.

2. Description of maintenance requirements and schedule.

3. Description of documentation, reporting, and records management.

4. Description of the City of Portland's inspection and maintenance program for dedicated streets, sidewalks, and parks.

I. PROJECT CLOSEOUT REPORT

Upon completion of the soil remedial action to include construction of the cap and filing of deed restrictions, a draft Project Closeout Report shall be submitted for DEQ review and comment. A final Project Closeout Report shall be submitted for DEQ approval addressing DEQ's comments on the draft report. The Project Closeout Report shall prepared for each portion of the site that HSP is requesting certification of completion by DEQ, and include, at a minimum:

1. Results of the final inspection for the cap, including a brief description of any problems discovered during the final inspection and the resolution of those problems.

2. A detailed description of all work conducted in accordance with the approved Contaminated Media Management Plan and the final design plans and specifications for the cap, and certification by an Oregon-Registered Professional Engineer and HSP's Project Coordinator that the work was performed in accordance with all approved plans and specifications.

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3. Explanation of any modifications to the approved plans and specifications, if the changes have reduced or could reduce the effectiveness of the cap, and why these modifications were necessary.

4. Final, as-built drawings of the cap, if different from final design drawings previously submitted. As-built drawings will be provided only where the as-built condition has reduced or could reduce the effectiveness of the cap per ROD requirements.

5. Map showing areas of site where cap is underlain by an identifier layer.

6. Certification that the quality of the cap meets requirements of the ROD.

7. Explanation of additional inspections and maintenance to be undertaken at the site.

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ATTACHMENT D

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After recording return to:

Ball Janik LLP
101 SW Main Street, Suite 1100
Portland, OR 97204
Attn: Rebecca Biermann Tom

Send tax statements to:

No change

LICENSE AND DECLARATION OF RESTRICTIONS

This License and Declaration of Restrictions is made _____ _, 200_ between Hoyt Street Properties, L.L.C., an Oregon limited liability company ("Grantor"), the Oregon Department of Environmental Quality ("DEQ") and The Burlington Northern and Santa Fe Railway Company ("BNSF"), a Delaware corporation doing business in Oregon.

RECITALS

A. Grantor is the owner of certain real property (the "Property") located in Multnomah County, Oregon, which is more particularly described in Exhibit A, attached hereto and by this reference made a part hereof.

B. Grantor intends to develop the Property as a [insert description of project planned for the block] (the "Project"), which will include [insert description of the elements of the Project, e.g., residential, commercial, storage and parking units]. [For Projects with below grade parking, state: "The Project will have one level of parking below grade."]

C. In conjunction with the development of the Property, Grantor prepared and DEQ approved the "_____ Plan." Grantor is required to conduct its development activities on the Property in accordance with that _____ Plan.

D. Environmental investigations at the Property have determined that hazardous substances, as defined in ORS Chapter 465, are present in soils and groundwater at the Property, including [insert hazardous substances known to be present on the block in question]. To address these hazardous substances and to protect human health and the environment, the Director of the DEQ selected the remedial action for the Property in a Record of Decision for the Property dated December 15, 2000 ("ROD"). Grantor, BNSF and DEQ entered into a Consent Decree to implement the ROD in *State of Oregon v. The Burlington Northern and Santa Fe Railway Company and Hoyt Street Properties, L.L.C.*, Multnomah County Circuit Court Case No. _____ ("Consent Decree"). The Consent Decree requires that Grantor and its successors implement certain institutional controls and ensure ongoing access for DEQ and BNSF to any portions of the Property at or below ground level, except as otherwise provided herein. The Consent Decree also requires that Grantor record this License and Declaration of Restrictions in the real property records of Multnomah County prior to Grantor's sale or transfer of any right to or any interest in any part of the Property.

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E. The provisions of this License and Declaration of Restrictions are intended to protect human health and the environment.

NOW THEREFORE, in consideration for the foregoing, which is incorporated by reference, and the promises and obligations herein, the parties agree as follows:

SECTION 1 GENERAL DECLARATION

Grantor declares that the Property is and shall be conveyed, transferred, leased, encumbered, occupied, built upon, or otherwise used or improved, in whole or in part, subject to this License and Declaration of Restrictions. Each condition and restriction set forth in this License and Declaration of Restrictions and the licenses granted in Section 4 shall run with the land for all purposes, shall be binding upon all Owners as set forth in this License and Declaration of Restrictions, and shall inure to the benefit of the State of Oregon. Grantor further conveys to DEQ the perpetual right to enforce the conditions and restrictions set forth in this License and Declaration of Restrictions.

SECTION 2 DEFINITIONS

2.1 "DEQ" means the Oregon Department of Environmental Quality, and its employees, agents, and authorized representatives acting on its behalf. "DEQ" also means any successor or assign of DEQ under the laws of Oregon, including but not limited to any entity or instrumentality of the State of Oregon authorized to perform any of the functions or to exercise any of the powers currently performed or exercised by DEQ.

2.2 "Owner" means any person or entity, including Grantor, who is the record owner of fee simple title or a vendee's interest of record to any portion of the Property, including any successor or holder of fee simple title or a vendee's interest of record to any portion of the Property, excluding any entity or person who holds such interest solely for the security for the payment of an obligation. [For Projects that are condominiums insert the following: Notwithstanding the foregoing, upon the recording of a declaration creating a condominium (the "Condominium") on the Property and for so long as the Condominium is in existence, "Owner" shall mean the owners' association for such Condominium.]

2.3 "BNSF" means The Burlington Northern and Santa Fe Railway Company, and its employees, agents and authorized representatives acting on its behalf. BNSF also means any successor or assign of BNSF.

SECTION 3 RESTRICTIONS ON USE

3.1 No groundwater use. No use shall be made of groundwater at the Property, by extraction through wells or by other means, which use involves consumption or other beneficial use of the groundwater. This prohibition shall not apply to extraction of groundwater associated with temporary dewatering activities related to construction, development, or the installation of sewer or utilities at the Property.

3.2 Maintenance of cap. Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any

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surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

3.3 Prohibited uses. The following operations and uses are prohibited on the Property:

3.3.1 Detached single-family residential development; and

3.3.2 Agricultural use of any type at or below the ground level of the Property, except that landscaping consistent with Section 3.2 and the use of self-contained planters and pots shall be allowed.

SECTION 4 LICENSE (RIGHT OF ENTRY).

4.1 During reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, DEQ shall have a non-exclusive license to enter upon and inspect any portion of the Property at or below ground level to determine whether the requirements of this License and Declaration of Restrictions have been or are being complied with. Notwithstanding the foregoing, for so long as the Property is developed as the Project, the access and inspection rights granted hereunder shall apply only to areas where no building development has occurred, [insert if Project includes below grade parking: the level of parking below grade] and sidewalk areas of the Property at ground level. [If Project is a condominium with below grade parking, insert the following: "In no instance shall DEQ have any right to access or inspect any units of the Condominium except the parking units or storage units on the level below grade."] [If Project is a condominium without below grade parking, insert the following: "In no instance shall DEQ have any right to access or inspect any units of the Condominium."]

4.2 DEQ shall provide the Owner with written notice of any violation of the requirements of this License and Declaration of Restrictions. Such notice shall describe what is necessary to correct the violation and shall specify the date by which the Owner must cure the violation; provided that if the violation is not capable of cure within the time period provided therefor by DEQ, the Owner shall not be deemed in default hereunder if the Owner commences to cure within the requisite time period provided by DEQ and Owner thereafter diligently pursues the cure to completion.

4.3 If after DEQ has provided written notice pursuant to Section 4.2 the Owner fails to timely cure the violation, DEQ shall have the right, privilege, and license to enter upon the portion of the Property (subject to all of the restrictions set forth in Section 4.1) where such violation exists and to abate, mitigate, or cure such violation at the expense of the Owner. Any such entry by DEQ shall not be deemed a trespass, and DEQ shall not be subject to liability to the Owner of the Property for such entry or for any action taken to abate, mitigate, or cure a violation; provided, that DEQ shall indemnify and hold Owner harmless for, from and against damages, costs (including, without limitation, attorneys' fees and costs), expenses, claims and

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liabilities arising out of the gross negligence or willful misconduct of DEQ or its employees, agents, officials and contractors, to the extent permitted by Article XI, Section 7 of the Oregon Constitution and by the Oregon Tort Claims Act.

4.4 During reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, BNSF shall have a non-exclusive license to enter upon the Property to the extent required by DEQ so that BNSF may implement the ROD and BNSF's obligations under the Consent Decree. Notwithstanding the foregoing, the access rights granted to BNSF hereunder shall apply only to areas where no building development has occurred, [insert if Project includes below grade parking: the level of parking below grade] and sidewalk areas of the Property at ground level. [If Project is a condominium with below grade parking, insert the following: "In no instance shall BNSF have any right to access any units of the Condominium except the parking units or storage units on the level below grade."] [If Project is a condominium without below grade parking, insert the following: "In no instance shall BNSF have any right to access any units of the Condominium."]

4.5 Grantor reserves for itself, upon sale or other transfer of any interest in the Property, a non-exclusive license to enter upon the Property during reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, to the extent required by DEQ so that Grantor may implement the ROD and Grantor's obligations under the Consent Decree. Notwithstanding the foregoing, the access rights reserved to Grantor hereunder shall apply only to areas where no building development has occurred, [insert if Project includes below grade parking: the level of parking below grade] and sidewalk areas of the Property at ground level. [If Project is a condominium with below grade parking, insert the following: "In no instance shall Grantor have any right to access any units of the Condominium except the parking units or storage units on the level below grade."] [If Project is a condominium without below grade parking, insert the following: "In no instance shall Grantor have any right to access any units of the Condominium."]

SECTION 5 GENERAL PROVISIONS.

5.1 Grantor shall record this License and Declaration of Restrictions in the records of deeds of real property in Multnomah County, such recordation being expressly authorized by statute including, without limitation, ORS 93.710.

5.2 By executing this License and Declaration of Restrictions, DEQ approves this instrument in accordance with ORS 93.808.

5.3 All conditions and restrictions contained in this License and Declaration of Restrictions shall run with the land, until such time as any condition or restriction is removed by written certification from DEQ that the condition or restriction is no longer required in order to protect human health or the environment.

5.4 Any person or entity who at any time owns, occupies, or acquires any right, title, or interest in or to any portion of the Property is and shall be conclusively deemed to have consented and agreed to every condition and restriction contained in this License and Declaration

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of Restrictions, whether or not any reference to this License and Declaration of Restrictions is contained in the instrument by which such person or entity acquired an interest in the Property.

5.5 The Owner of the Property shall notify DEQ within thirty (30) days following Owner's petitioning for or filing of any document initiating a rezoning of the Property that would change the base zone of the Property under the City of Portland zoning code or any successor code.

5.6 Upon any violation of any condition or restriction contained in this License and Declaration of Restrictions, DEQ may enforce this License and Declaration of Restrictions through the remedies described in Section 4.4 as well as through any other remedy available at law or in equity.

IN WITNESS WHEREOF Grantor, DEQ and BNSF have executed this License and Declaration of Restrictions as of the date and year first set forth above.

GRANTOR: Hoyt Street Properties, L.L.C.

By: _____
Its: Managing Member

GRANTEE: State of Oregon Department of Environmental Quality

By: _____
Its: _____

GRANTEE: The Burlington Northern and Santa Fe Railway Company

By: _____
Its: _____

STATE OF OREGON)
) ss.
County of Multnomah)

The foregoing instrument is acknowledged before me this ___ day of _____, 200_, by _____, the managing member of Hoyt Street Properties, L.L.C., on its behalf.

2-8-02

_____
NOTARY PUBLIC FOR OREGON

STATE OF OREGON)
) ss.
County of _____)

The foregoing instrument is acknowledged before me this ___ day of _____, 200_, by _____ of the Department of Environmental Quality of the State of Oregon, on its behalf.

_____
NOTARY PUBLIC FOR OREGON

STATE OF TEXAS)
) ss.
County of _____)

The foregoing instrument is acknowledged before me this _____ day of _____, 200_, by _____, the _____ of The Burlington Northern and Santa Fe Railway Company, on its behalf.

_____
NOTARY PUBLIC FOR OREGON

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EXHIBIT A

Legal Description of the Property

2-8-02

EXHIBIT C

Previously Constructed Rights-of-Way

Strips of land located in Hoyt Street Yards in the northeast one-quarter of Section 33 and northwest one-quarter of Section 34, T1N, R1E, W.M., in the City of Portland, Multnomah County, Oregon. Said strips of land being more particularly described as follows:

- All of NW Northrup Street lying between the west line of NW 9th Avenue and the east line of NW 12th Avenue
- All of NW 10th and NW 11th Avenues lying between the north line of NW Northrup Street and the north line of NW Lovejoy Street
- All of NW Johnson Street lying between the west line of NW 10th Avenue and the east line of NW 12th Avenue
- All of NW 11th Avenue lying between the south line of NW Johnson Street and the south lien of NW Lovejoy Street

And legally described as

- Those street rights-of-way as shown and dedicated to the public on the plat of *Pearl Block 2,* recorded on June 29, 1994, in Book 1227 at Pages 38 through 42, the plat of *Pearl Block 3,* recorded on May 26, 1995, in Book 1229 at Pages 58 through 60, and the plat of *Pearl Block 4,* recorded on August 16, 1996, in Book 1232 at Page 35 through 37, plat records for Multnomah County, Oregon
- Those street rights-of-way as shown and dedicated to the public on the plat of *Hoyt Street Yards,* recorded on September 13, 2000, in Book 1248, at Pages 21 and 22, plat records for Multnomah County, Oregon.

2-8-02

SOIL REMEDIAL DESIGN AND REMEDIAL ACTION WORKPLAN
HOYT STREET YARDS
PORTLAND, OREGON

Prepared for

Hoyt Street Properties, LLC

809 NW 11th Ave

Portland, Oregon 97209

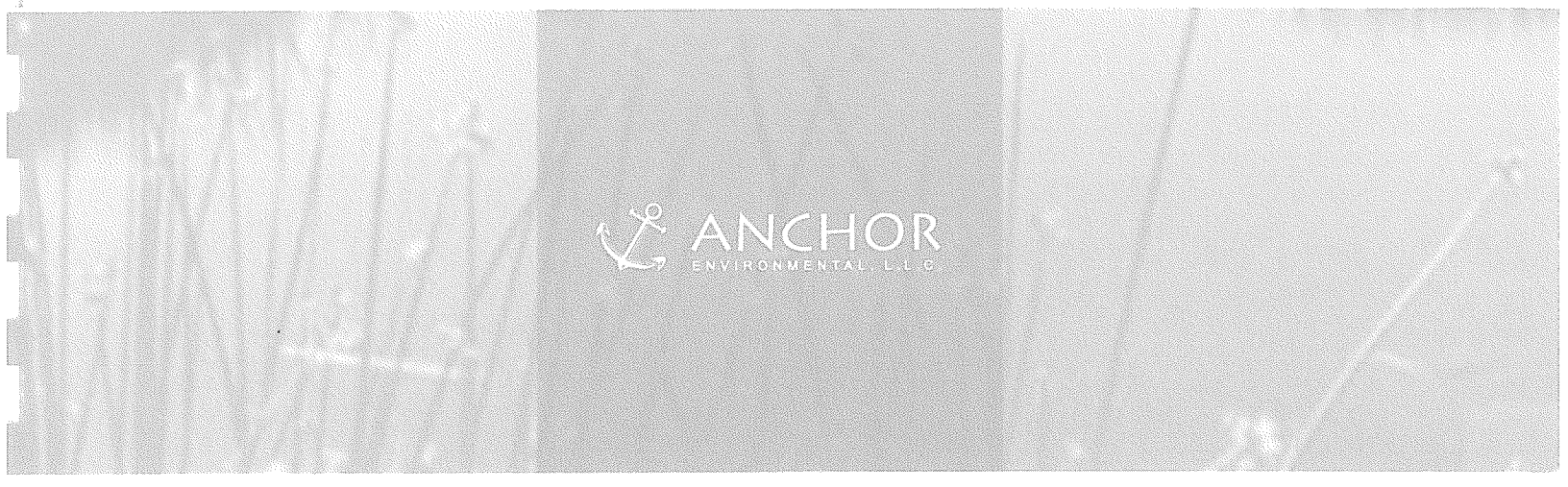
Prepared by

Anchor Environmental, L.L.C.

6650 SW Redwood Lane, Suite 110

Portland, OR 97224

June 2002



SOIL REMEDIAL DESIGN AND REMEDIAL ACTION WORKPLAN
HOYT STREET YARDS
PORTLAND, OREGON

Prepared for

Hoyt Street Properties, LLC

809 NW 11th Ave

Portland, Oregon 97209

Prepared by

Anchor Environmental, L.L.C.

6650 SW Redwood Lane, Suite 110

Portland, OR 97224

June 2002

The material and data in this report were prepared under the supervision and direction of the undersigned.

Anchor Environmental

John E. Edwards, RG, CEG

6/6/02
Date

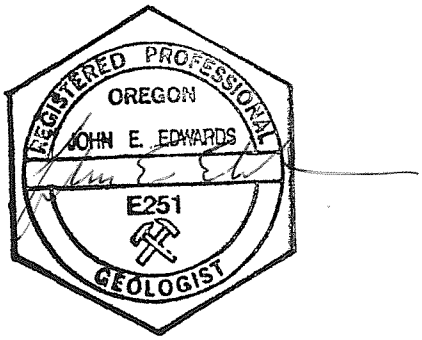


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Appendix A. Health and Safety Plan

Appendix B. Quality Assurance Project Plan

Appendix C. License and Declaration of Restrictions

Appendix D. Air Monitoring Data

AIHA	American Industrial Hygiene Association
BES	City of Portland Bureau of Environmental Services
BNSF	Burlington Northern and Santa Fe
COC	Constituents of Concern
CPR	Cardiopulmonary Resuscitation
DEQ	Oregon State Department of Environmental Quality
HASP	Site-specific Health and Safety Plan
HSP	HSP, LLP
IRAP	Interim Remedial Action Plan
LNAPL	Light Non Aqueous Phase Liquid
NPDES	National Pollutant Discharge Elimination System
OPDR	City of Portland Office of Planning and Development Review
OR-OSHA	Oregon State Occupational Safety and Health Administration
PAH	Polycylic Aromatic Hydrocarbons
PDOT	City of Portland Department of Transportation
PEL	Permissible Exposure Limit
PID	Photo ionization Detector
PPE	Personal Protective Equipment
RBC	Risk Based Cleanup Levels or Risk Based Concentrations
RDRA	Remedial Design and Remedial Action
ROD	Record of Decision
SAP	Sampling and Analysis Plan
TPH	Total Petroleum Hydrocarbons
TWA	Time-Weighted Average

1 INTRODUCTION

Burlington Northern and Santa Fe Railroad (BNSF) formerly owned and operated a railroad operations and maintenance facility, called the Hoyt Street Yards, on approximately 26 acres in northwest Portland, Oregon. The location of the former railyard is shown on Figure 1. This soil Remedial Design and Remedial Action (RDRA) Workplan (Workplan) contains the requirements for soil cleanup activities that will be completed during future development of the property by its current owner, Hoyt Street Properties, LLC (HSP). Future development involves Hoyt Street Yards, a residential community. The Hoyt Street Yards site map showing the block layout and phased development plan is on Figure 2.

This soil RDRA Workplan fulfills the requirements of Attachment C to the February 2002 Consent Decree between BNSF, HSP, and the State of Oregon (Multnomah County Circuit Court Case No. 0202-01268). Attachment C is the scope of work describing the required contents of this soil RDRA Workplan. Under the terms of the Consent Decree HSP has the responsibility to carry out future site remediation for soils and BNSF is responsible for carrying out future activities related to groundwater remediation. BNSF is responsible for preparing the groundwater RDRA Workplan to meet the requirements of Attachment B to the Consent Decree.

1.1 Remedy Objectives

The remedy objectives for soil cleanup at the site are contained in the December 15, 2000, Record of Decision, Selected Remedial Action for Hoyt Street Railyard, Portland, Oregon (ROD). The soil remedy objectives are listed below.

- Prevent exposure to soil or groundwater posing any one or more of the following:
  - exceedance of the lead action levels
  - hazard index of greater than 1 for noncarcinogens
  - lifetime excess cancer risk greater than 1x10-6 for individual carcinogens
  - combined excess cancer risk greater than 1x10-5 for multiple carcinogens at the upper bound exposure.
- To the extent feasible, remediate hot spots of contamination in soil or groundwater to non-hot spot levels or acceptable risk levels by reducing contaminant concentration, volume, or mobility.

Specific numeric risk-based cleanup levels or concentrations (RBCs) were developed for the contaminants of concern (COCs) in soils to satisfy the remedial action objectives. The soil RBCs are listed on Table 1.

1.2 Schedule

Interim remedial actions have been completed at the site by HSP and BNSF. The interim actions completed to date are listed in Section 2.1. Future soil remedial actions will be completed in phases as part of HSP's site development process. Because the site development schedule is uncertain, this Workplan does not include a detailed schedule for accomplishing the soil scope of work at the site.

Consequently, for those years where there are earthwork or other construction activities that include soil remediation, HSP will provide the Oregon Department of Environmental Quality (DEQ) with an annual status report of the remediation achievements. For those years where there are no earthwork or other type of cleanup activities, HSP will provide an annual status report with a projected future schedule of development. The annual status report will be incorporated into the quarterly progress reports described in Section 1.3.

If HSP has not completed the work required by this Workplan by November 15, 2014, HSP will provide a report to DEQ by December 15, 2014, describing how HSP will meet the requirements of this Workplan by December 15, 2015.

1.3 Project Organization and Communication

HSP is responsible to DEQ as the oversight agency for carrying out this Workplan to meet the requirements of the ROD. Jim Mitchell is the HSP project manager in charge of all work to be completed at the site under this Workplan, and is the primary point of contact for DEQ for issues related to future soil remediation activities. Jill Kiernan, PE, is the DEQ project manager. Anchor Environmental, LLC (Anchor), is the environmental contractor assisting HSP. John Edwards, RG, CEG, is the project manager for Anchor.

Progress reports will be provided to DEQ that meet the requirements of the Consent Decree. The reports will be delivered to DEQ on or before the tenth working day of each quarter. The progress reports will contain the following information:

- Actions taken during previous quarter
- Actions scheduled to be taken in following quarter
- Summary of sampling, test results, and any other data generated during the previous quarter
- Description of any problems experienced during previous quarter

The progress reports may be submitted to DEQ in electronic form.

1.4 Permitting Requirements

Soil remediation activities under this Workplan will be integrated with general earthwork, utility, paving, and foundation construction to be completed during residential and commercial development of the site. These activities will be conducted under the permit authority of the City of Portland (City). The project will acquire all permits normally required by the City for similar projects. The work will also meet the requirements of the Consent Decree, including this Workplan. No other permits are required.

2 CONTAMINATED MEDIA MANAGEMENT PLAN

2.1 Interim Remedial Action

HSP and BNSF have each completed several interim remedial actions at the site. These actions are identified in the following list. Each action item on the list is accompanied by the title of the report submitted to DEQ documenting the action.

- **Underground Storage Tank (UST) Removals:** described in the *Hoyt Street Yards Underground Storage Tank Removal Report, Portland, Oregon*, prepared by IT Corporation, April 23, 2001
- **Soil remediation in conjunction with the Hoyt Street Yards Phases 1 and 2 demolition and earthwork activities:** described in the *Hoyt Street Yards Phases 1 and 2 Environmental Construction Report, Portland, Oregon*, prepared by IT Corporation, February 22, 2001
- **PAH soil hot spot removal:** described in Completion Report for PAH Hot Spot Removal, prepared by ThermoRetec, August 9, 2000.
- **Lead soil hot spot removal:** described in Lead Area Soil Removal Completion Report, prepared by the RETEC Group, Inc., February 22, 2002.
- **LNAPL removal in block 16 area:** described in 2001 Annual Progress Report Hoyt Street Property Containment and Recovery System and LNAPL Excavation Completion Report, prepared by the RETEC Group, April 4, 2002.

The listed reports may be obtained from DEQ upon request. The interim actions were completed by BNSF under the authority of the Consent Order WMCSR-NWR-95-08, between BNSF and DEQ. The interim actions completed by HSP were conducted according to the requirements of the DEQ approved September 13, 2000, Phases 1 and 2 Interim Remedial Action Plan, Hoyt Street Properties, Portland, Oregon (IRAP). The IRAP provides the soil management requirements that have been and will continue to be implemented in the interim period until this soil RDRA Workplan is approved and in force at the site.

2.2 Soil Remedial Action Alternatives

Section 7.2.1 of the ROD specified the following components of the soil remedial action:

1. Excavation and treatment and/or landfill disposal of hot spot soil
2. Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil

3. Excavation of soil in utility corridors where concentrations exceed the construction worker RBCs in the upper five feet of soil
4. Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements
5. Institutional controls

Actions 1 and 2 were completed by ThermoRetec for BNSF and the reports describing those actions are listed in Section 2.1. Those actions by BNSF remediated all known soil hot spots that currently require clean up. If additional lead or PAH hot spot soils are encountered during future site development or other earthwork activities, those soils will be remediated according to the ROD requirements.

Actions 3, 4, and 5 have already begun with HSP's development activities in Phases 1 and 2 of the Hoyt Street Yards development. The soil remediation tasks completed during Phases 1 and 2 earthwork are documented in the Hoyt Street Yards Phases 1 and 2 Environmental Construction Report, Portland, Oregon, February 22, 2001. That report was completed for HSP by IT Corporation at the request of the Oregon DEQ. The environmental construction report records that the Phases 1 and 2 earthwork activities met the requirements of the IRAP.

2.3 Subsurface Soil

2.3.1 Health and Safety Requirements

Lead, Polycyclic Aromatic Hydrocarbons (PAH), and petroleum impacted soils will be excavated during future construction activities at the Hoyt Street Yards. Excavated soils will be reused on-site, or stockpiled on-site, according to the process described in this section. All soil handling activities will be conducted with appropriate personal protective equipment (PPE). The project Health and Safety Plan (HASP) to be followed for future site earthwork activities is presented in Appendix A of this Workplan. The HASP was the minimum standard for the safety plans developed by site contractors during Phases 1 and 2 earthwork. The HASP was reviewed by Oregon Occupational, Safety, and Health Division (OR-OSHA), and their comments have been incorporated. The HASP may be modified for future earthwork activities, and DEQ will be notified of

any proposed changes to the HASP before they are implemented. Dust minimization procedures will be implemented as described in Section 2.8.

2.3.2 Soil Management Protocols

Each phase of the Hoyt Street Yards development takes the following general sequence of earthwork activities.

- Soil sampling/testing in future construction areas to determine soil quality classification
- Demolition of existing structures
- Soil scarification
- Soil excavation for buildings, streets, utilities
- Soil stockpile according to soil quality classification
- Onsite reuse as backfill or offsite disposal of stockpiled soil

During future phases of the Hoyt Street Yards development, excavated soil will be managed according to the steps illustrated in Figure 4. The goal of the process will be to manage the soil according to the options described in Tables 2 and 3. These tables are designed based on similar tables in the ROD. Table 2 includes two hazardous waste categories and three on-site reuse categories. Table 3 covers three off-site management categories.

Prior to earthwork activities on each development block, subsurface soil samples will be obtained and tested in an offsite laboratory according to the protocols outlined in Section 3. Soil quality data will be obtained to supplement the results of past investigations and the onsite field screening. The field and laboratory testing methods to be used are described in Section 3.

The soil quality data will be used to classify the soil prior to being excavated. The estimated boundaries of the soil types will be staked in the field prior to excavation. The mapped areas will be used as a reference for the excavation contractor with regard to excavation and stockpiling activities. For example, the estimated boundaries of soil type ON-1 will be staked in the field and soil removed from that area will be directed to the ON-1 stockpile. See Table 3 for a description of the soil classification criteria.

Although the pre-excavation soil classifications will be the primary guide for soil stockpile and reuse activities, the soil will also be field screened during excavation to determine that the soil quality is consistent with the pre-excavation classifications. During excavation, representative soil samples will be field screened for evidence of petroleum odor, stain, sheen, and residual free product. Based on the results of the field screen and pre-excavation soil classification, the earthwork contractor will be directed on stockpile and onsite reuse options.

For each phase of development, the Excavation and Grading Plans generally show at least two soil stockpiles, a select stockpile for potentially clean soil, and a contaminated soil stockpile. The select soil stockpile is used to hold category ON-1 soil and the contaminated soil stockpile is used for category ON-2 soil. A third stockpile may be used to store ON-3 soil. Stockpiled soil will not be landfilled offsite unless it has been characterized by lab testing representative samples for total petroleum hydrocarbons (TPH), PAH (GC-SIM), and total lead. The testing protocols are described in Section 3. The lab data will be used to determine the appropriate offsite landfill disposal option according to Table 3.

The onsite reuse categories for the soil classifications described on Tables 2 and 3 are listed below.

ON-1:

- Unrestricted onsite reuse
- Suitable for use as park cap and cap in landscape areas on private blocks

ON-2:

- Fill under street right of ways in the zone down to five feet below top final pavement

ON-2, ON-3:

- Fill beneath building foundations

Soil that passes the field screen and pre-excavation testing with no COC's above urban resident child risk based cleanup levels, will be managed according to the ON-1 or OFF-1 categories. Soil to be used as park cap material will receive lead, TPH, and PAH, lab testing to confirm that the Table 2 criteria are met.

Field screen characteristics of petroleum odor, and stain will be combined with the pre-excavation soil classification data to identify ON-2 soil. Portions of this soil not immediately reused on-site will be stockpiled separately from the ON-1 soil.

If the project has more ON-2 soil stockpiled than can be re-used on-site, the soil will be lab tested to determine whether OFF-2 or OFF-3 offsite disposal options are appropriate.

Soil that displays field screen characteristics of petroleum sheen or residual free product (potential ON-3 category) will be stockpiled on-site for later onsite reuse or off-site disposal. Potential ON-3 category soil stockpiled onsite will be further tested for lead, TPH, and PAH's to determine what onsite reuse or offsite disposal options are possible.

A geotextile marker will be placed at the five-foot contact between ON-2 street fill and the underlying soil. A geotextile marker will also be placed at the contact between sewer line backfill and adjacent soil where the soil exceeds ON-3 limits of contamination.

Soil stockpiles to be established during earthwork activities could include ON-1 stockpiles, ON-2 stockpiles, and an ON-3 pile. Where appropriate the ON-2 and ON-3 piles will be lined and covered with minimum 6 mil plastic membranes to minimize contact with rain and underlying soil.

2.4 Hot Spot Soil

BNSF has conducted interim actions designed to remove known hot spot soils from the Hoyt Street Yards. If previously unknown hot spot soils are encountered during future earthwork activities they will be excavated and disposed offsite to meet the requirements of the ROD.

2.5 Soil Stockpiles

During construction activities soil may have to be stockpiled onsite prior to onsite reuse or offsite disposal. The soil will be stockpiled according to soil quality classification. Soil meeting the ON-1, ON-2 and ON-3 categories will be stockpiled separately in a manner to

prevent mixing. The ON-2 and ON-3 stockpiles will be placed on a minimum 6 mil geomembrane to prevent mixing with the underlying soil. The ON-1 stockpile must be placed on geomembrane only where it is placed over soil that has not been classified or has been determined to be ON-2 or ON-3 soil. The ON-2 and ON-3 soil will be covered daily to prevent windblown soil and minimize rainfall infiltration.

2.6 Groundwater

2.6.1 General Conditions

The average depth to the watertable at the site is generally deeper than the maximum depth of foundation and sewer line excavations anticipated to be built at the site. Therefore, groundwater should not typically be encountered during future construction activities at the site. The watertable may be encountered however, due to the presence of shallow seasonally perched groundwater, or if deep excavation occurs during periods of seasonally high watertable conditions.

Previous investigations by BNSF have shown that shallow groundwater at the site contains low concentrations of petroleum hydrocarbon constituents, primarily PAHs. DEQ has determined that the PAHs do not represent an unacceptable risk to human health and the environment. BNSF is going to establish shallow wells to monitor groundwater quality at the site. Isolated areas of the site may contain groundwater with free petroleum product, possibly weathered diesel or bunker C fuel. The groundwater monitoring system is described in the Groundwater RDRA Workplan prepared by BNSF.

2.6.2 Protocols for Handling Groundwater During Construction

During future construction activities there may be instances where groundwater is encountered during earthwork activities. The groundwater does not pose a risk to site construction or excavation workers unless free petroleum product is encountered in the excavation. Free petroleum product must be removed from excavations to allow construction activities to proceed with minimum exposure of the excavation workers to the petroleum. The HASP in Appendix A provides the minimum guidelines for site contractor personnel during activities that include exposure to groundwater.

The following protocol was followed for the removal and handling of contaminated groundwater and free petroleum product (e.g., Light Non Aqueous Phase Liquid; LNAPL) during Phases 1 and 2 earthwork activities and will be followed during future earthwork activities. If LNAPL is identified in an excavation, the contractor will attempt to remove the LNAPL using a temporary recovery system while the excavation is open and construction work is being completed. The intent of the removal of LNAPL is to protect human health during the construction activities; long term removal of identified LNAPL is beyond the scope of the site development activities. The contractor will not be required to use a water recovery system specifically designed for free product recovery, but may use any system that allows construction to proceed and that allows delivery of the recovered water to the onsite water treatment system. Once the construction work is finished, the temporary LNAPL recovery systems will be dismantled. Temporary recovery systems may include the use of vacuum trucks, skimming pumps, or total fluid pumps. A determination of the most effective removal method will be made once the product thickness has been established and other construction considerations, such as time the excavation will be open, have been considered. Recovered petroleum product and groundwater will be transferred by the contractor to the on-site groundwater storage tank.

Groundwater collected at the site could be stored and treated on-site. Collection of the water would be done using pumps placed in the open excavations, and/or vacuum trucks. The earthwork contractor would transport the water to an on-site treatment system. Water would be treated in batches and discharged to the city storm sewer system under a National Pollutant Discharge Elimination System (NPDES) 1500 A General Permit for stormwater. The volume of treated water would be recorded with a level indicator located on the treated water holding tank. Verification samples would be collected in the holding tank between the treatment system and the NPDES discharge point. The NPDES permit would have to be acquired from DEQ before construction begins.

The petroleum product recovered during groundwater treatment would be stored on-site before transfer to a licensed, permitted recycling facility. Shipping manifests

documenting this activity would be included in the environmental construction report prepared to document earthwork activities.

Establishment of a temporary onsite groundwater treatment facility may not be feasible or cost effective during future phases of construction. In that case, the groundwater and free product could be pumped directly to tanker trucks and transported to an offsite licensed facility for treatment, such as Spencer Environmental.

2.7 Stormwater

Because of the high permeability of the shallow fill soil at the former railyard, very little runoff has historically occurred on unpaved areas at the site, even under wet winter conditions. Therefore, little runoff is expected from unpaved areas during future Hoyt Street Yards development earthwork activities. No runoff occurred during the Phases 1 and 2 earthwork activities for the period April through August, 2000. This was due to the combination of low rainfall during that period and infiltration of precipitation into the permeable surface fill soil.

Stormwater collection ponds will be established for each future earthwork phase. During future wet season earthwork activities, stormwater may accumulate in the site collection ponds. If this occurs, the water will be routed to an on-site infiltration system located at the north end of the property. The location of future infiltration sites will be shown on the project excavation and grading plans. The infiltration system will typically consist of shallow gravity fed basin(s) excavated into the surface soil. The infiltration system for each earthwork phase will be managed so that all water transferred from the collection ponds will infiltrate, thereby precluding runoff from the site.

During Phases 1 and 2 earthwork in 2000, three groundwater monitoring wells were installed to monitor possible water quality impacts from use of the infiltration basins. The wells were installed to monitor shallow groundwater at the site. They were sampled prior to construction of the infiltration basins and the groundwater was tested for TPH, PAH (GC SIM), and lead. Low concentrations of PAH's were detected in groundwater, and these data are presented in the Hoyt Street Yards Phases 1 and 2 Environmental Construction Report. Previous investigations by BNSF determined that dissolved PAHs are present in

shallow groundwater resulting from historic railyard activities. The wells were never resampled because the infiltration basins were never used. The monitoring wells are still present at the site, but further monitoring is not proposed at this time. The wells will be abandoned according to Oregon Water Resources Department requirements as construction activities occur in those areas.

In order to limit the contact of rainwater with petroleum impacted soils, inactive portions of the stockpiled soils will be covered with minimum 6 mil plastic during the winter months. The construction area will also be graded to limit the runoff of storm water from the site as well as limit the migration of stormwater to the site.

2.8 Dust Control

Dust control measures will be implemented during future earthwork activities as necessary to reduce dust generation and prevent offsite migration of visible dust. During dry weather periods water trucks will be used to sprinkle the haul roads and other areas that could generate traffic induced dust. During dry periods construction site vehicle speed may be limited to 10 miles per hour (mph) as a dust control measure. Heavily traveled areas and haul roads may be covered with gravel as necessary as a dust control measure. Water trucks will also be used as necessary to sprinkle some excavation and fill areas to reduce dust generation.

During dry weather periods the use of compressed air for dust removal or equipment cleaning may be prohibited to prevent dust generation. Equipment leaving the site from future earthwork areas will travel through a wheel wash to prevent migration of soils to public streets. Water from the wheel wash may be used in water trucks to sprinkle the unpaved site roads and excavation areas for dust suppression.

Air monitoring was conducted during Phases 1 and 2 earthwork activities to determine possible hazardous conditions and to confirm the adequacy of personal protection equipment. The goal was to prevent worker exposure above the dust concentration limits described in the HASP. The monitoring was done according to the HASP protocols (Appendix A). Haul roads and heavily traveled areas of the site were covered with granular fill to minimize direct contact with site soils.

2.9 Air Quality Monitoring

The need for air quality monitoring must be determined by earthwork contractors assigned to future earthwork projects at the Hoyt Street Yards. The following information on the protocols and results of historic air monitoring is provided to assist future contractors in determining if air monitoring will be conducted at the site.

During Phases 1 and 2 earthwork activities in 2000, field staff sampled on-site dust to monitor construction worker exposure to PAHs and lead, and to evaluate the effectiveness of dust control measures. Sampling was conducted before earthwork began to evaluate PPE and to establish an exposure baseline in areas where soil contaminant concentrations exceeded ON-1 levels. All sampling and data analysis was conducted in accordance with accepted methods as detailed in the OR-OSHA Technical Manual Section 1, Chapter 1, and the sampling pump manufacturer's specifications. Appendix D contains the health and safety site monitoring results.

2.9.1 Exposure Limits

The OR-OSHA permissible exposure limit (PEL) for lead is 50 micrograms per cubic meter ($\mu g/m^3$) of air averaged over an eight-hour period. OR-OSHA also defines a regulatory action level for an eight-hour time-weighted average (TWA) at 30 $\mu g/m^3$. The only PAHs of concern expected to be encountered on-site were coal tar pitch volatiles. OR-OSHA defines the PEL for coal pitch volatiles at 0.2 milligrams per cubic meter (mg/m^3). OR-OSHA has established the maximum airborne dust concentration allowable for workers using Modified Level D PPE at 0.5 mg/m^3.

2.9.2 Airborne Lead and PAH Exposure Monitoring

Eight-hour personal air sampling was conducted on excavation trench construction workers. Trench workers were chosen because they were expected to be exposed to the highest concentrations of dust present at the site. Sampling was conducted during excavation for sanitary sewer improvements in Marshall Street. Samples were collected using Gilian GILAIR-3 personal air sampling pumps. The pumps draw air through a series of filters at a flow rate of 2.0 liters per minute. Samples for lead testing were

collected on 0.8-micron mixed cellulose ester filters. Samples for PAH testing were collected on 2-micron Teflon™ filters.

Following sampling, the filters were submitted to Kemper/NATLSCO Industrial Hygiene Laboratory in Long Grove, Illinois, for testing. Kemper/NATLSCO is a laboratory accredited by the American Industrial Hygiene Association (AIHA). Samples were analyzed for coal pitch volatile range PAHs (NIOSH 5506) and lead (NIOSH 7082).

2.9.3 Respirable Dust Monitoring

Field staff measured the concentration of airborne particulate using a MINIRAM Personal Monitor Model PDM-3 respirable dust meter. The meter measures dust concentrations by quantifying the scattering of electromagnetic radiation projected through an influent stream of ambient air passing over a sensing cell. Baseline measurements were made before construction activities began. Additional measurements were taken on particularly dry and windy days, when earthwork produced visible airborne dust, and during concrete cutting.

The monitor was powered up and calibrated according to manufacturer's specifications. Once a baseline for particulate concentration in clean air was established, the sampler moved the monitor to a location of interest, such as a roadway, or outside of a trench. The monitor read background levels and displayed airborne concentrations on a LCD screen.

Analysis of sample results showed that excavation trench workers were subject to airborne concentrations of lead and PAHs of concern below OR-OSHA PEL for an eight-hour period. Concentrations of lead and PAHs were also below action levels calculated as an eight-hour time-weighted average.

The protective work practices employed on-site were adequate, based on the analytical results of lead and PAH testing and the instrument responses from respirable meters. Worker exposure to dust and airborne lead and PAHs remained below action levels and PELs.

2.10 Asbestos

Underground steam piping may remain at the Hoyt Street Yards from former railyard operations. Such piping was encountered in 2000 during earthwork operations for Phases 1 and 2. Some of the steam piping encountered in 2000 had asbestos insulation. If asbestos insulated piping is encountered during future earthwork operations at the site, it will have to be removed in a manner that protects the health and safety of site workers and the public. The asbestos insulation encountered in Phases 1 and 2 was removed by Accord Construction using methods that were in accordance with 29 CFR 1910.1001 of the EPA regulations on asbestos removal, National Emission Standards for Asbestos, and the OSHA regulations on asbestos, Section 1910.1001. Details of the asbestos removal project conducted in 2000 may be reviewed in Section 2.14 of the Hoyt Street Yards Phases 1 and 2 Environmental Construction Report, IT Corporation, April 17, 2001.

2.11 Construction Debris

There are environmental considerations associated with the offsite disposal of construction debris, particularly the debris resulting from site demolition of existing structures left from former railyard activities. Some of the former railyard structures, such as concrete foundations, pipelines, concrete sumps, or other structures are in contact with contaminated soil.

Before construction debris can be removed from the site, all visible soil must be removed and stockpiled according to the plan described in Section 2.2. The soil removal could be accomplished by brushing the debris or by washing with water. Construction debris that includes site soil cannot be disposed offsite except at a RCRA subtitle D licensed landfill, such as Waste Management's landfill in Hillsboro, Oregon. Construction debris that includes site soil cannot be disposed at an offsite demolition waste landfill that is unlined or otherwise does not meet RCRA subtitle D standards.

2.12 Construction Equipment Decontamination

Earthwork equipment and other vehicles working on site in future construction phases must be washed prior to leaving the site to prevent spreading of site soil to the surrounding public streets, including 12th Avenue, 9th Avenue, and Lovejoy. For this purpose, temporary wheel wash stations will be used to clean the tires and exteriors of vehicles leaving the site.

The earthwork contractor in charge of each construction phase of the project will be responsible for assuring that soil is not tracked onto city streets during future construction phases. Wheel wash water may be used in water trucks on unpaved areas onsite for dust control sprinkling.

2.13 Site Security

Access to the site during future earthwork construction phases will be restricted to authorized subcontractors, utility workers, trucking agencies, and representatives of city and state agencies. A fence will be erected at the site perimeter to discourage unauthorized entry during earthwork. Access to the site will be limited to designated entryways that will be monitored. Access gates will be secured during off hours.

3 SAMPLING AND ANALYSIS PLAN

3.1 Soil Sampling Plan

3.1.1 Sampling Purpose and Design

There are two basic types of soil sampling that will occur during future earthwork activities. There will be pre-excavation soil sampling in future building foundation areas, future right of ways, future subsurface sewer corridors, and future parks. There will also be grab sampling that occurs in excavations from soil stockpiles, future borrow areas, and other locations not covered by the pre-excavation sampling. This Sampling and Analysis Plan (SAP) is designed to classify the site soil so that the soil can be reused onsite or disposed offsite using methods that protect human health and the environment.

Following sampling, the soil will be tested in the laboratory to determine the concentration of TPH, concentration of total lead, and the concentrations of individual PAHs. The concentrations of those constituents determine the soil classification according to the concentration ranges shown on Tables 1 and 2. The soil classification is used during excavation to direct the onsite segregation and stockpiling of soil based on soil classifications ON-1, ON-2, and ON-3.

The pre-excavation soil sampling will typically be done using a push-probe soil sampler. The goal is to obtain representative soil samples from the soil zones that will be excavated during construction. Boring locations will be spaced fifty feet apart, resulting in 16 borings per block. The borings will also be on 50-foot centers along the future center line of street right of ways. The borings will obtain samples down to the depth planned for future foundation excavations, road construction, and sewer installation. The minimum depth of soil sampling along street right of ways must obtain samples from a depth equivalent to five feet below final street pavement. For example, if three feet of fill and pavement are to be placed over current grade, then the soil sample depth in that portion of the street must be at least two feet.

Soil grab samples may be obtained from excavations where the smell or appearance of the soil indicates that the soil quality may not be consistent with the data obtained from the pre-excavation boring samples. Soil borings or grab samples would be needed from

onsite borrow areas that are intended for use as sources of fill for site earthwork. Grab samples would be required from soil that has been stockpiled onsite from offsite sources. Grab samples from soil stockpiles and future borrow areas should be spaced approximately 50 feet apart to create a grid sample pattern.

3.1.2 Field Methods

3.1.2.1 Borings

Before any subsurface explorations are conducted, an underground utility check will be completed at all proposed boring locations using public and private utility locate services.

Using a push-probe boring method, continuous soil samples will be obtained down to the future planned depth of excavation at each boring location. The soil samples will be removed from the sampling tube and logged. The soil will be described with respect to grain size, color, moisture content, and other parameters according to ASTM D 2488-84 standard practice for description and identification of soils. Soil staining or odor that indicates the presence of petroleum contamination will also be logged. An example soil boring log form is in Appendix B.

The soil samples will be composited at five-foot depth intervals. For example, samples taken from a 15-foot boring would be composited at three five-foot intervals. Five-foot intervals should be used except where the boring depth is less than five-foot, and in those cases only one composite sample is needed.

The samples will be composited by using a steel hand trowel to obtain representative discrete samples every six inches along the five-foot composite interval of the core sample. The discrete samples will be placed in a steel bowl and stirred using the steel trowel until, in the judgment of the sampler, the samples are adequately mixed. The steel trowel will then be used to obtain samples for laboratory testing. Two laboratory supplied jars will be filled from each composite sample. Both samples will be shipped to the laboratory, but only one sample will be designated for testing. The second sample will be held in refrigerated storage by the lab, in case additional testing from that composite sample is needed. Therefore, one composite soil sample

will be lab tested from each five-foot depth interval, i.e. three composite samples would be tested from a 15-foot. deep boring. By the end of each day, all borings will be properly decommissioned by backfilling with bentonite and hydrating to meet the requirements of OAR 690-240.

Push probe soil sampling methods do not generate soil cuttings, so special handling methods for drilling derived soil materials are not required. Wash water derived from cleaning the soil sampler does not need to be contained and may be allowed to soak into the site soil.

3.1.2.2 Grab Samples

Grab samples will be obtained using hand sampling techniques. A steel hand trowel could be used to obtain samples from the wall of excavations or from the surfaces of stockpiles. A steel shovel could also be used to obtain samples below the surface of soil stockpiles or just below the surface of excavations. For excavations more than four feet deep, OR-OSHA safety rules will not allow the sampler to enter the excavation to obtain soil samples. In those cases, a backhoe may be used. Where the sample is obtained using a backhoe bucket, the technician should obtain the discrete sample from the center area of the bucket, where the sample is less likely to be mixed with material adhering to the bucket from earlier excavations. Grab samples will be placed directly into laboratory supplied jars for later testing. Wash water derived from the cleaning the trowel or other hand sampler does not need to be contained and may be allowed to soak into the site soil.

3.1.2.3 Field Screening and Sampling

The chart on Figure 4 describes how field screening of soil samples fits into the process of soil management during future earthwork at the site. The primary purpose of soil field screening is to confirm that the soil being removed in construction excavations appears consistent with the soil classifications determined in the pre-excavation boring program described in Section 3.1. If field screening indicates that the soil being excavated does not fit into the classification that was determined from the pre-excavation sampling program, the soil screening

characteristics will be used to reclassify the soil in the field and stockpile or reuse the soil based on the revised classification.

For example, if the pre-excavation testing showed that the soil being excavated is classified ON-1, the soil should not display petroleum odor or discoloration. Soil that displays petroleum odor or stain in the field shall be classified ON-2, and be stockpiled and reused on site accordingly. Soil that was classified ON-2 based on the pre-excavation boring program could have isolated pockets of ON-3 soil. ON-3 soil would be indicated in the field by the presence of petroleum sheen on the soil particles or residual free product in the soil matrix.

A photoionization detector (PID) was used to support field screening during the Phases 1 and 2 earthwork activities. Section 4.1.1 of the February 22, 2001, Phases 1 and 2 Environmental Construction Report described how PID field screening results were compared with the laboratory testing results. That report described how the low volatility of the weathered diesel and bunker C constituents of contaminated soil samples resulted in poor PID responses. Field staff could form no discernible consistent correlation between PID readings, visual and olfactory screening, and the laboratory analytical data. For these reasons, PID screening will not be required in future construction phases at the site.

3.1.2.4 Stockpile Sampling

The Contaminated Media Management Plan described in Section 2, requires classification of all stockpiled soil before onsite re-use or offsite disposal. Onsite stockpiles derived from onsite excavations where pre-excavation soil testing data was obtained do not require further testing. Stockpile grab samples will be tested at stockpiles of soil obtained from offsite sources where previous analytical data was unavailable or insufficient to classify soil per the Table 2 criteria.

Stockpile grab samples will be collected at locations determined to be representative of the entire stockpile. The sample sites will be located on an approximate 50-feet grid and staked with construction lathe. Field personnel will use professional judgment to determine approximate 50-foot sample spacing where the stockpile

dimensions are not compatible with a rectangular grid pattern. ,Plastic stockpile covers will be removed where necessary to expose a sampling location.

Composite soil samples will be obtained at each of the sample sites. To create the composite sample, four discrete samples will be obtained within a one-foot radius of the sample site. The discrete samples will be collected from a depth of 12 to 18 inches below the stockpile surface by excavating to the desired depth and drawing a representative sample with a stainless steel spoon or steel trowel. Samples will be field screened and soil characteristics logged. The four discrete soil samples will be mixed in a steel bowl. Duplicate stockpile samples will not have to be obtained at each location as is required for the pre-excavation boring samples. This is because the stockpile sample site can easily be re-sampled if necessary. The composite sample will be placed in a laboratory-provided jar, capped, labeled, and placed in a chilled cooler for transport.

Leftover soil from the composite sampling process may be replaced on the stockpile. Wash water derived from cleaning the hand sampling tools between sample sites does not have to be contained and can be allowed to soak into site soil.

3.1.2.5 Sample Containers and Documentation

Soil samples will be transported to the testing lab in clean containers supplied by the analytical laboratory. Soil sample containers will be fully filled to leave minimal headspace. Sample container lids will have Teflon™ liners to minimize the escape of volatile compounds. All containers will be labelled with applicable information, including the project name, project number, sample number, depth, the date and time of collection, and the sampler's initials.

3.1.2.6 Sample Storage, Chain of Custody, and Shipment

Samples will be stored in a cooler and packed with ice or blue ice, to sustain an ambient temperature of approximately 4°C. The cooler lid will be secured with chain-of-custody seals. The samples will be hand delivered or sent by overnight courier to the analytical laboratory for chemical analysis. The laboratory will be notified when the sample shipment is due to arrive. Chain-of-custody will be

maintained and documented at all times. A sample chain-of-custody form is in Appendix B.

3.1.2.7 Decontamination

Non-disposable sampling equipment will be decontaminated between samples by washing in a detergent solution, rinsing with tap water, and rinsing with deionized water.

3.1.3 Laboratory Testing Methods and Reporting Limits

Laboratory testing of site soil is required to classify the soil based on the concentrations of the COCs listed on Table 1. The urban resident child RBCs have the lowest COC concentrations so the lab testing method reporting limits must be low enough to detect those concentrations. The following laboratory testing methods were used in the Phases 1 and 2 earthwork testing and would be suitable for future testing:

- Total lead: EPA 6010A
- Diesel and heavy range hydrocarbons: Northwest TPH-Dx
- PAHs: EPA 8270-SIM
- The laboratory quality assurance and quality control protocols are described in Appendix B.

3.2 Sampling Other Media

3.2.1 Groundwater and Stormwater

The site groundwater monitoring program is described in the Groundwater RDRA Workplan. BNSF is responsible for implementing the groundwater monitoring program.

If groundwater removed during construction activities is treated and discharged under an NPDES permit (Section 2.5), then lab testing of treated groundwater would be necessary to document attainment of the NPDES water quality permit discharge limits. The NPDES permit discharge limits for the Phases 1 and 2 earthwork groundwater treatment system were: TPH< 1 mg/l; BTEX< 0.25 mg/l; benzene < 0.025 mg/l; pH between 6 and 9; and no visible petroleum sheen.

If stormwater infiltration basins are used during future earthwork activities, groundwater monitoring will be implemented adjacent to the basins. Three monitoring wells are located downgradient from the infiltration basins that were constructed for the Phases 1 and 2 earthwork activities. The monitoring program conducted for Phases 1 and 2 earthwork is described in Section 2.7. The wells were sampled in 2000 following installation to establish baseline groundwater quality data. The wells have not been sampled since then because the infiltration basins were never used.

For future construction phases new infiltration basins will be constructed. The high permeability of the shallow fill soil at the site makes it unlikely that enough runoff would occur to require the use of the infiltration basins. Use of the infiltration basins for disposal of stormwater would require that the existing monitoring wells or new monitoring wells be constructed and monitored for the COCs, lead, TPH, and PAHs. The design and location of future infiltration basin monitoring wells would be submitted to DEQ for review and approval prior to construction and monitoring.

If monitoring wells are sampled as part of future earthwork activities at the site, the sampling procedures described in the Groundwater RDRA Sampling and Analysis Plan should be followed.

3.2.2 Asbestos

Possible asbestos-containing-materials may be encountered in below ground steam pipe insulation during future construction activities. Laboratory testing using visual microscopy would be required to determine the nature of the material (Section 2.10).

3.3 Quality Assurance and Quality Control

3.3.1 Objectives for Field Sampling

The quality assurance and quality control protocols are described in the Appendix B Quality Assurance Project Plan (QAPP).

3.3.2 Objectives for Laboratory Testing

The quality assurance and quality control protocols are described in the Appendix B Quality Assurance Project Plan.

4 SOIL CLASSIFICATION, REUSE, CAPPING, AND DISPOSAL

4.1 Soil Classification and Onsite Reuse

The selected soil remedial action for the site is described in Section 7.2.1 of the ROD. The soil remedy objectives are listed in Section 1.1 of this Workplan. The primary tasks required by DEQ to achieve the soil remedy objectives are:

1. Excavation and treatment and/or landfill disposal of hot spot soil
2. Excavation, stabilization (as needed), and landfill disposal of TCLP-lead soil
3. Excavation of soil in utility corridors where concentrations exceed the construction worker RBCs in the upper five feet of soil
4. Capping the entire site with 2 to 3 feet of clean soil, buildings, pavement, or other site improvements
5. Institutional controls

Tasks 1 and 2 have been completed by BNSF as described in Section 2.1. Those actions by BNSF removed all currently known hot spot and TCLP-lead soil on the site. It is possible, but unlikely, that currently unknown hot spot or TCLP-lead soil may be encountered during future earthwork activities at the site. If this occurs, the soils will be removed and landfilled offsite to meet ROD requirements.

Management of soil remaining on site will be done according to the soil classification system described on Tables 2 and 3. Those tables describe the classification of site soils based on the concentration of COCs in the soil, the options for onsite soil use, and the options for offsite soil disposal.

Soil categories HS-1 and HS-2 have already been removed from the site by BNSF as previously described. Soil categories ON-1, 2, and 3 may be reused on site during future development related earthwork activities and street and foundation construction. Table 2 shows that the ON-1 soil may reused onsite for any purpose, and that ON-2 and ON-3 soil must be capped.

Institutional controls to be implemented are described in Section 8.

4.2 Onsite Capping and Offsite Disposal

The ROD requires that a cap be placed over all areas of the site where soil contaminant concentrations exceed risk based limits. The categories of cap that will be constructed at the site are listed below.

- Compacted soil in future city parks
- Landscaped areas on the building blocks
- Street pavement and curbs in future city right of ways
- Concrete building foundations, including underground parking structures
- Concrete sidewalks adjacent to buildings where there is no underground parking

Further details of cap design are provided in Section 5.

For the purposes of developing this Workplan, (HSP) assumes that a cap will be required for all areas of the site. However, future soil testing may identify areas of the site where the soil quality does not require a cap. No cap would be required over areas where the soil COC concentrations do not exceed the URC RBCs (Table 1) in the upper five feet below existing grade, or exceed the Construction Worker RBCs within a 15-foot deep zone below existing grade. If such areas are discovered during future site investigations, DEQ will be provided with the soil data and DEQ approval would be required before developing the area without a cap.

Soil that is removed from the site must be disposed or reused offsite following the management options detailed in Table 3. OFF-1 soil has no offsite reuse restrictions. Note that OFF-1 soil has lower COC concentration limits than ON-1 soil, so soil that is classified as ON-1 may not be suitable for unrestricted offsite use and, if not, would be subject to the OFF-2 offsite disposal/treatment options. OFF-1 soils have lower COC concentration limits for lead, TPH, and some PAHs, than ON-1 soils. ON-1 soils have lower concentration limits for benzo(a)pyrene and dibenzo(a,h)anthracene than OFF-1 soils. OFF-2 soil has several offsite landfill options, however all options require placement at a DEQ permitted site or thermal treatment at a DEQ approved treatment facility. OFF-3 and OFF-4 also have several offsite landfill options, or can go to a permitted thermal treatment facility.

5 EARTHWORK AND CAP DESIGN

5.1 Development and Permitting Process

The current Hoyt Street Yards development plan includes five phases. Portions of Phases 1 and 2 have been completed as described in Section 2.1. Figure 2 shows the completed buildings and the paved streets in Phases 1 and 2. The buildings on blocks 8 and 10 are complete and occupied. The building on block 11 is currently being built. HSP plans to complete construction of the underground infrastructure and finish paving the streets in the Phases 1 and 2 areas during the summer of 2002. The permit applications for Phases 3 and 4 have been submitted to the City.

The Hoyt Street Yards development process requires that construction permits be obtained as listed below. These permits have been received for Phases 1 and 2 and are currently in effect. The Phases 3 and 4 permitting process is ongoing.

1. Private property construction permits required from the City Office of Planning and Development Review (OPDR):
    - Excavation and shoring permit
    - Foundation Permit
    - Building permit
2. Public infrastructure construction permits:
    - Sanitary and storm sewer permit from City Bureau of Environmental Services (BES)
    - Water system permit required from City Water Bureau
3. A permit to construct streets, sidewalks, stormwater catchbasins and appurtenances is required from the City Department of Transportation (PDOT)
4. A 1200C erosion control permit is required from the Oregon DEQ

5.2 Alternative Cross Sections of Cap Materials

This Section provides the engineering requirements for the various cap options listed in Section 4.2.

Soil cap in city parks: This soil must be at least three feet thick following compaction. The soil is designed as a barrier to prevent exposure to the underlying soil and has no

engineering compaction or bearing capacity requirements. The soil must be at least five feet thick in child playground areas. The soil quality must not exceed ON-1 concentration limits.

Landscaped area in private building blocks: This soil must be at least two feet thick following compaction, has no compaction or other engineering requirements, and the soil quality must not exceed ON-1 concentration limits.

Street, sidewalks and building foundations: These structures will cap those areas not covered by city parks or landscape features. There are two general classes of structural caps that will be used at the site, and these are shown on Figures 5 and 6.

A geotextile marker must be installed at the contact of the base of all cap materials and the underlying contaminated soil. This marker will allow the detection of the base of the cap during future maintenance or repair activities.

The street cap is shown on both figures and consists of four inches of A.C. pavement overlying approximately 10 inches of aggregate base. The aggregate base overlies approximately four feet of compacted fill. The clean fill meets the soil quality criteria of ON-2 soil shown on Table 3.

Figure 5 shows the sidewalk and at-grade concrete foundation profiles that will be constructed where the buildings do not have underground parking. Figure 6 shows the sidewalk and foundation options that would be built at those buildings with underground parking. Figure 6 shows one underground parking option with the vaulted garage extending under the sidewalk to the curb. The sidewalks that overlie vaulted underground garage space are not part of the cap. The other underground parking option on Figure 6 shows the garage vault extending only to the building edge of the sidewalk.

All of the Hoyt Street Yards soil caps will fall under one of the options described above. The capping option for each building block, (i.e. underground parking or at-grade foundation, will not be decided until submittal of the construction permit applications to the City).

5.3 Pre-Construction Document Submittals to DEQ

DEQ will be provided with copies of the approved permits listed in Section 5.1 prior to construction so that DEQ will know which capping option is to be used at each block.

6 CAP CONSTRUCTION INSPECTION AND CERTIFICATION PLAN

6.1 Background and Description

The DEQ requires a written record showing that the City of Portland inspected and approved the use of those portions of the cap that consist of building foundations, sidewalks, and paved right of ways. The placement of the soil cap on future city parks will be monitored and certified by HSP. HSP will provide periodic record summaries documenting the inspection and approval of portions of the cap as they are completed. The summaries will usually be provided to DEQ with the Project Closeout Reports for completed blocks and right of ways. Project Closeout Reports are described in Section 9.

6.2 Buildings and Sidewalks

HSP will be responsible for obtaining copies of the City building foundation and sidewalk approvals for each block and providing them to DEQ. Anchor will provide written certification that the soil management and soil reuse activities for each block met the Protocols in Section 2 of this Workplan. Sidewalks overlying vaulted underground garage space are not part of the cap.

6.3 Right of Ways and Parks

HSP will be responsible for obtaining copies of the City street approvals for each block and providing them to DEQ. Anchor will provide written certification that the soil used as backfill under each street and soil placed as cap on the future parks met the protocols in Section 2 of this Workplan.

7 ENGINEERING AND INSTITUTIONAL CONTROL PLAN

The engineering and institutional control plan describes the measures that will be implemented to restrict exposure to soil according to the requirements of the ROD. The plan covers engineering measures, like the cap, and institutional control measures, such as the License and Declaration of Restrictions.

The **Engineering measures** include:

- **The cap**. The cap requirements are described in Sections 4, 5, and 6.
- **Security fencing**. Security fencing is already in place to prevent public access to undeveloped portions of the site. HSP will maintain the fence as long as there are undeveloped areas of the site.
- **Erosion control**. A 1200C erosion control permit approved by DEQ is in place for Phases 1 and 2 construction and will be renewed for subsequent construction phases. The permit conditions are designed to contain soil within the site boundaries during earthwork activities. Stormwater and dust control measures that will be implemented during future earthwork activities are described in Sections 2.7 and 2.8 of this Workplan.

The **Institutional control measures** include:

- **Soil management plan**. The protocols for managing contaminated soils are described in Section 2 of this Workplan.
- **Deed restrictions**. The License and Declaration of Restrictions approved for this site was attached to the Consent Decree as Attachment D, and is included in this Workplan as Attachment C. Before HSP transfers title to any portion of the site, this document must be recorded in the Multnomah County real property records for that portion of the site.
- **Cap inspection and maintenance plan**. This plan is in Section 8 of this Workplan. The cap maintenance responsibility for future site owners is also addressed in Section 3.2 of the License and Declaration of Restrictions (Attachment C).
- **Prevention of groundwater use**. Section 3.1 of the The License and Declaration of Restrictions establishes a prohibition for future site owners against the consumptive or beneficial use of site groundwater. The only approved removal of groundwater under the ROD is the temporary removal of groundwater if necessary during subsurface

construction activities. The protocols for handling groundwater removed during future construction activities are described in Section 2.6.2.

8 POST CONSTRUCTION CAP INSPECTION AND MAINTENANCE PLAN

8.1 Background and Description

Section 7.2.1 of the ROD requires that an inspection and maintenance plan be established for the cap. The plan will establish the method and reporting system for annual inspection. The plan will also establish how the inspection report would trigger required maintenance to assure the integrity of the cap.

8.2 Buildings, Sidewalks, Landscape Areas

Future inspection, reporting, and maintenance of the privately owned building foundation, sidewalk, and landscape areas on each block will be the responsibility of the homeowner association at each building. The homeowner association will contract with an engineer or engineering geologist licensed in Oregon to do the inspection. The annual inspection will cover all areas of the parking garage, building foundation, sidewalks, and landscape areas that serve as a cap on each private block. The sidewalks that overly vaulted garage space are not part of the cap and will not be included in the inspection.

For the concrete foundation walls and sidewalks, the inspector will note any cracks or unusual weathering that shows the potential to allow soil to migrate through the cap. For the landscape areas, the inspection will look for areas where there are holes, animal burrows or cracks that could expose the underlying soil. In all cases the inspector will photograph any suspect areas and include the photos and description in the annual report. The inspector will include a map of any suspect areas that is linked with the photos. The inspection report will be structured to allow easy comparison of the condition of suspect areas during subsequent inspections.

The report will categorize possible problem areas into two categories: (1) areas to be reevaluated in future inspections; and (2) areas that require repair immediately. For any areas where the inspector determines that soil is currently exposed or migrating through the cap, the inspector will provide a written early action memo to the homeowners association within 24 hours of the inspection. The homeowner association will be responsible for repair of the areas identified in the early action memo within one week of receiving the early action memo. The homeowner association shall provide DEQ with a copy of the early action

memo within one week of receiving the memo from the inspector, but shall not wait for DEQ approval to implement repairs.

The annual inspection report will be submitted to DEQ by March 1st of each year. The annual report will include a list of suspect areas to be reinspected the following year and documentation of any repairs completed that were recommended in the early action report. The homeowner association must maintain copies of the inspection reports for at least five years. Any maintenance tasks recommended in the annual report must be carried out by December 31 of the year of the inspection.

The homeowner association will retain the engineer who performed the annual inspection to check the adequacy of the required maintenance or repair work. Documentation of the completed repairs or maintenance will be made in the inspection report of the following year.

8.3 Right of Ways and Parks

The plan for inspection and maintenance of dedicated rights of ways and parks is being developed in a cooperative effort between the City and DEQ.

9 PROJECT CLOSEOUT REPORT

9.1 Phased Reporting

A project closeout report will be prepared for each portion of the site that HSP is requesting certification of completion by DEQ.

9.2 Report Contents

Upon completion of the soil management activities, construction of the cap, and filing of the License and Declaration of Restrictions, a draft project closeout report shall be submitted for DEQ review and comment. A final project closeout report shall be submitted for DEQ approval addressing DEQ's comments on the draft report. A project closeout report shall be prepared for each portion of the site that HSP is requesting certification of completion by DEQ, under Section 7 of the Consent Decree, and include:

- City of Portland written approvals of the construction of the building foundations, sidewalks, and street pavement.
- An environmental construction report describing how the soil management activities conformed to the requirements of this Workplan.
- Certification by an Oregon registered Professional Engineer, or Engineering Geologist, and HSP's Project Coordinator that the work was performed in accordance with all approved plans.
- Explanation of any modifications to the City approved plans and specifications that have reduced or could reduce the effectiveness of the cap, and why the modifications were necessary.
- Final as-built drawings of the cap in those areas, if any, where the as-built condition has reduced or could reduce the effectiveness of the cap per ROD requirements.
- Map showing areas of the site where the cap is underlain by geotextile marker.

The draft Closeout Report for blocks 8, 10, 11, and 12 of Hoyt Street Yards was submitted to DEQ on May 22, 2002.

10 REFERENCES

IT Corporation. 2000. Phases 1 and 2 Interim Remedial Action Plan Hoyt Street Properties, Portland, Oregon. September.

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Oregon DEQ. 2000. Record of Decision Selected Remedial Action for Hoyt Street Railyard Portland, Oregon. Environmental Cleanup Northwest Region Site Response Program. December.

RETEC Group. 2002. Lead Area Soil Removal Completion Report Former Hoyt Street Railyard, Portland, Oregon. February.

RETEC Group. 2002. 2001 Annual Progress Report Hoyt Street Property, Containment and Recovery System and LNAPL Excavation Completion Report. April.

ThermoRetec. 2000. Completion Report for PAH Hot Spot Removal Former Hoyt Street Railyard, Portland, Oregon. August.

Table 1
Risk Based Cleanup Concentrations And Hot Spot Concentrations For Soils

Contaminant of Concern	RBCs			Hot Spot Concentration (mg/kg)
	Urban Resident Child (0 to 5 ft bgs) (mg/kg)	Construction Worker (0 to 15 ft bgs) (mg/kg)	Future Maintenance Worker (0 to 15 ft bgs) (mg/kg)	
Lead	400	2,000	2,000	ND
Benzo(a)anthracene	0.39	11	209.3	39
Chrysene	38.70	1,106	20,930	3,870
Benzo(b)fluoranthene	0.39	11	209.3	39
Benzo(k)fluoranthene	3.87	110	2093	387
Benzo(a)pyrene	0.04	1.1	20.93	4
Dibenzo(a,h)anthracene	0.05	1.9	20.93	5
Indeno(1,2,3-cd)pyrene	0.39	11.1	209.3	39
Total Petroleum Hydrocarbons (TPH)	700	41,000	460,000	ND

- For the carcinogenic PAHs, the RBCs correspond to an excess cancer risk of 1×10^{-6}. The combined cancer risk from exposure to multiple carcinogenic COCs is less than 1×10^{-5}.
- TPH RBCs correspond to an excess cancer risk of 1×10^{-6} and are based on the assumption that the TPH at the site was diesel fuel.
- Lead RBCs are protective action levels derived from EPA policy and guidance.
- For the urban resident child scenario, it was assumed that the receptor could be exposed to the upper 5 feet of soil. The RCBs therefore, apply to the upper 5 feet of soil for this scenario.
- For the construction worker and future maintenance worker scenarios, it was assumed that the receptors could be exposed to soils to depths of 15 feet below ground surface. The RCBs for these scenarios apply to the soil depths from 0 to 15 feet below ground surface.
- Hot spot concentrations correspond to an excess cancer risk 1×10^{-4}, based on the urban resident child exposure scenario.
- ND=Not determined due to lack of data. For these compounds, the determination of hot spot levels requires consideration of leachability to groundwater.

Table 2
Soil Management Options, On-site Use

Category	Soil Characteristics	Analytical Testing	Results	Management Options
HS-1	**Exceeds** Hot Spot Concentration 0 – 5 feet (ROD); **and** non-hazardous for lead	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	Benzo(a)pyrene > 4.0 mg/kg TPH and Lead Determined by Leachability (ROD)	Municipal Landfill
HS-2	**Exceeds** RCRA Criteria for Characteristic Hazardous Waste (TCLP Lead > 5 mg/l)	TCLP Lead	> 5.0 mg/l Lead	Off-site Disposal at RCRA Landfill; On-site Treatment and Municipal Landfill Disposal
ON-1	**Below** RBCs for Urban Resident Child (ROD)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 400 mg/kg lead < 0.04 mg/kg benzo(a)pyrene < 700 mg/kg TPH	Unrestricted On-site Re-use
ON-2	**Above** RBCs for Urban Resident Child; **Below** RBCs for Hoyt Street Construction Worker (ROD)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	400 mg/kg <lead < 2,000 mg/kg 0.04 mg/kg < benzo(a)pyrene <1.0 mg/kg 700 mg/kg < TPH < 41,000 mg/kg	Unrestricted On-site Sub-grade Re-use; Thermal Treatment
ON-3	**Above** RBCs for Hoyt Street Construction Worker; but **Below** Excavation Worker RBCs (ROD)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 2,000 mg/kg lead 1.0 mg/kg < benzo(a)pyrene <20.93 mg/kg 41,000 mg/kg < TPH < 460,000 mg/kg TPH	Industrial On-site Sub-Grade Backfill to be used where worker contact with soil is infrequent; Thermal Treatment

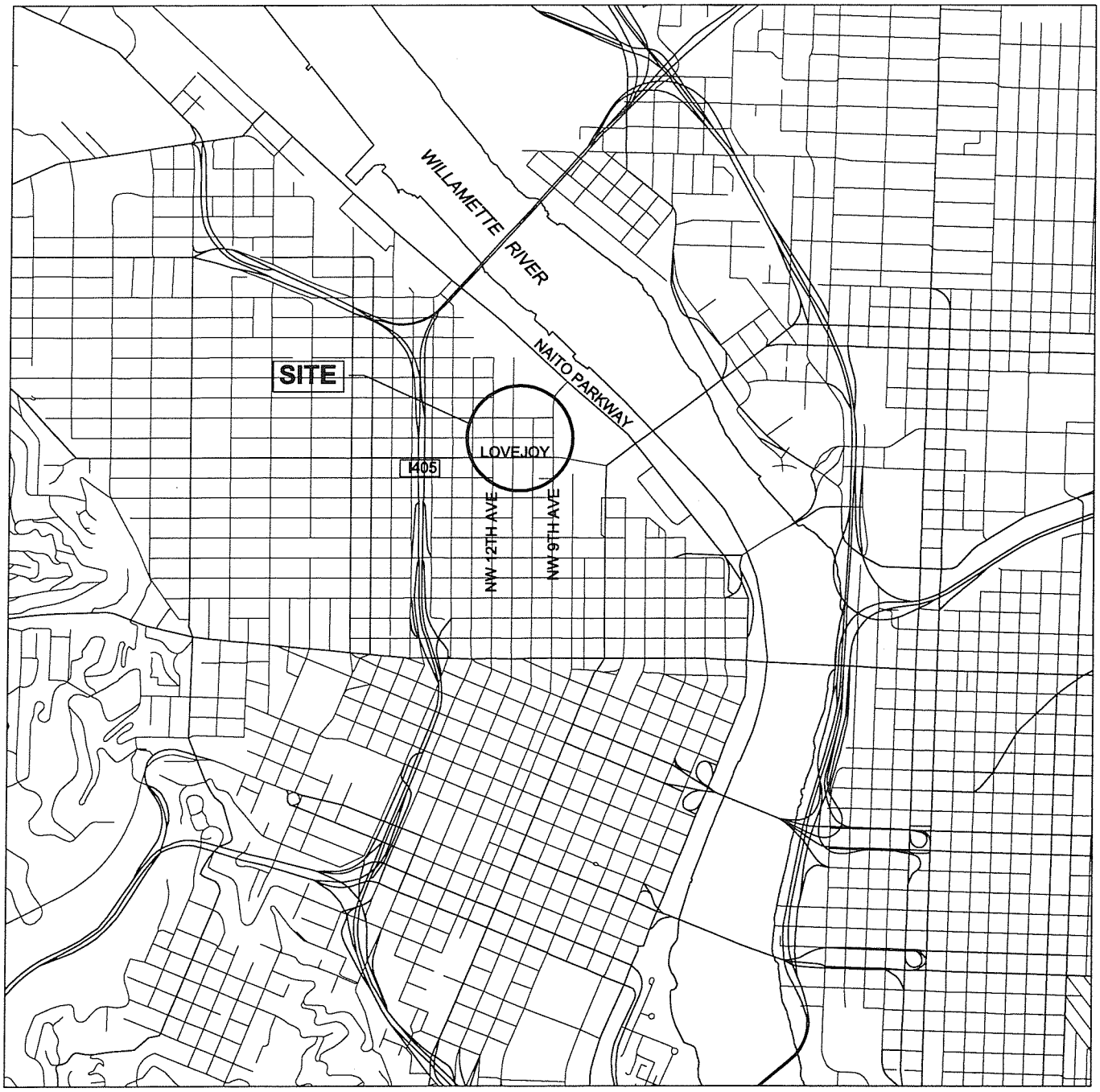
Notes:
Benzo(a)pyrene was used in the table as an indicator substance because its RBCs are lower than other PAHs. The remaining PAHs will be compared in a similar manner.
The use of inert landfills, construction/demolition landfills, and municipal landfills is subject to the terms and conditions of their respective solid waste permits.
Requirements for soil disposal may be more restrictive than those listed in the Table.
Use of excavated soil as sub-grade backfill means that the backfill is capped with clean soil, pavement, buildings or other cover structures.
Ability to use off-site industrial fill locations is opportunistic. A location must be available at the time the soil is available and will required a permit by DEQ.
Off-site management of TPH-impacted soils must be consistent with the DEQ Policy for Re-use of Petroleum Contaminated Soil; October 5, 1992 (Policy #550).
ON-3 soil that is excavated and exceeds hot spot concentration levels for PAH's may not be reused on site.

Table 3
Soil Management Options, Off-site Use

Category	Soil Characteristics	Analytical Testing	Results	Management Options
OFF-1	**Below** Soil Residential Cleanup Levels (OAR 340-122-045, Table 1); and **Below** Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 200 mg/kg lead < 0.1 mg/kg benzo(a)pyrene < 100 mg/kg TPH	Unrestricted Re-use
OFF-2	**Below** Soil Cleanup Levels Industrial Maximum Allowable Concentration (OAR 340-122-045(7) for lead and PAHs; **Below** Level 1 Soil Matrix Cleanup Standards(OAR 340-122-335)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 2,000 mg/kg lead < 1.0 mg/kg benzo(a)pyrene Level one limit = 100 mg/kg diesel	Off-site reuse in industrial fill (permitted by DEQ); Inert Landfill; Municipal Landfill; Construction Landfill (no wood or saw dust); or Thermal Treatment
OFF-3	**Above** Soil Cleanup Levels Industrial Maximum Allowable Concentration (OAR 340-122-045(7); but **Below** Level 1 Soil Matrix Cleanup Standards(OAR 340-122-335)	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 2,000 mg/kg lead 1.0 mg/kg < benzo(a)pyrene <20.93 mg/kg Level one limit = 100 mg/kg diesel	Off-site Industrial Sub-grade (permitted by DEQ); Municipal Landfill; or Thermal Treatment
OFF-4	**Above** Soil Cleanup Levels Industrial Maximum Allowable Concentration (OAR 340-122-045(7); but **Above** Level 1 Soil Matrix Cleanup Standards(OAR 340-122-335) and Non-RCRA hazardous	Lead (EPA 6010A), PAHs (EPA 8270), TPH-NWTPH-D	< 2,000 mg/kg lead 1.0 mg/kg < benzo(a)pyrene <20.93 mg/kg Level one limit = 100 mg/kg diesel	Lined industrial landfill as subgrade fill (permitted by DEQ)($3 to $7/ton); Municipal landfill, no debris limitations ($18 to $25/ton); Thermal treament, debris allowed, no sawdust ($30/ton).

Notes:

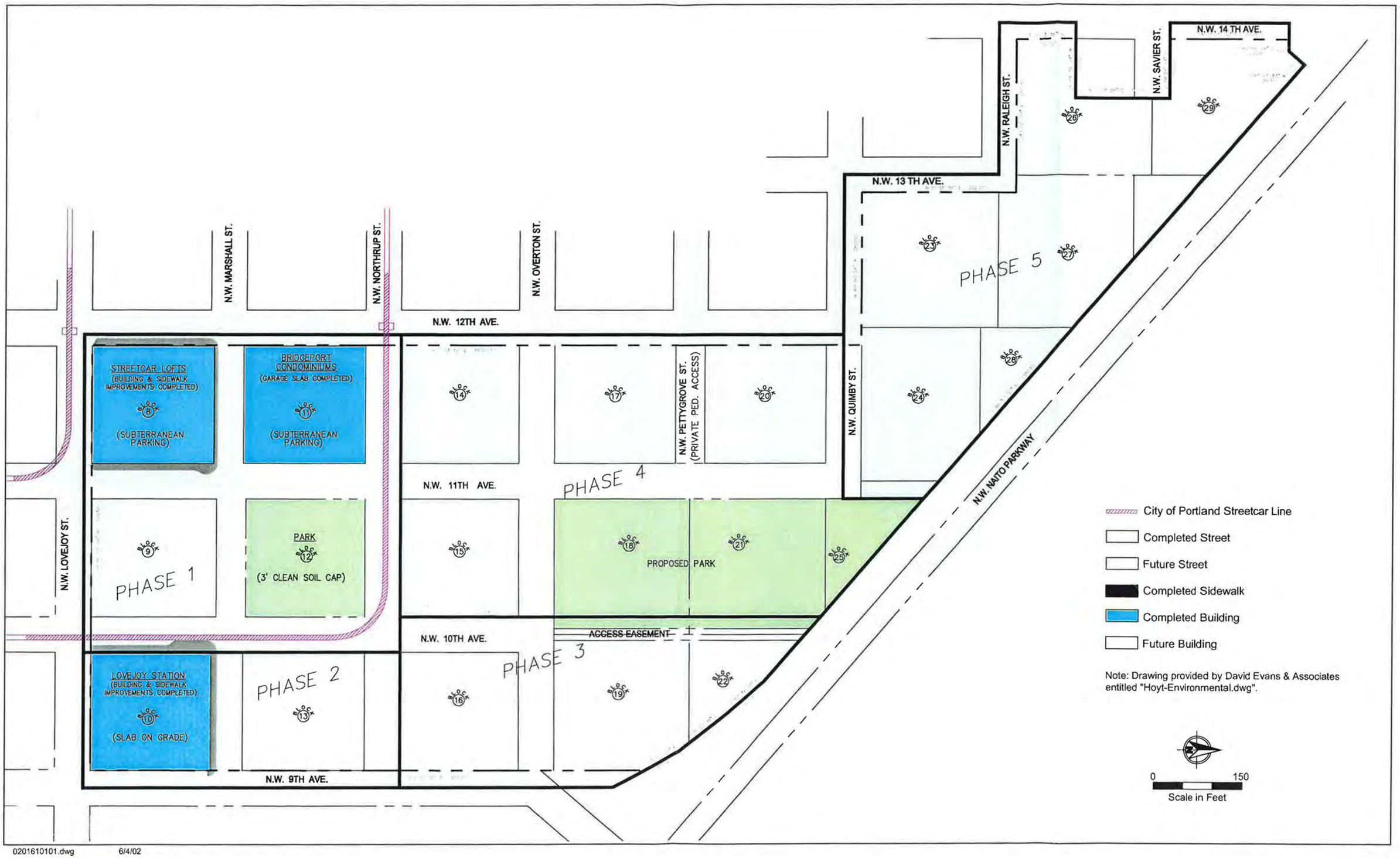
- The off-site disposal of soils that exceed Level 1 Soil Matrix Cleanup Standards (OAR 340-122-335) of the Soil Cleanup Levels of OAR 340-122-045, Table 1, is subject to approval by DEQ and may require a Letter of Authorization or Solid Waste Permit from DEQ.
- For Soil Categories OFF-2 and OFF-3, higher concentrations of TPH may be allowed by off-site reuse, i.e., Level 2 or Level 3 Soil Matrix Cleanup Standards, if it can be demonstrated that the off-site location to receive the soil meets the appropriate Level 2 or Level 3 conditions of OAR 340-122-325 to 335. DEQ may also consider alternative TPH concentrations if it can be demonstrated through the conductance of leaching tests, that leaching of contaminants to groundwater would not present a risk. The use of these alternative TPH levels is subject to approval by DEQ.
- The use of inert landfills, construction/demolition debris landfills, and municipal landfills is subject to the terms and conditions of their respective solid waste permits. Requirements for soil disposal may be more restrictive than those listed above. The owner/operator of the landfill should be contacted for prior approval and specific requirements for soil disposal.
- Use of excavated soil as subgrade backfill means that the backfill is capped with clean soil, pavement, buildings or other cover structures.
- Unit costs are approximate and do not include excavation or transportation. On-site and off-site backfilling includes spreading and compaction.
- Debris generated by screening may be disposed at a construction/demolition debris landfill or an "inert" landfill; subject to the terms and conditions of their permits. Inert landfills do not accept wood.
- Ability to reuse at off-site industrial fill locations is opportunistic. A location must be available at the time the soil si generated and will require a Letter of Authorization or Solid Waste Permit by DEQ.
- It is possible that OFF-3 soil could be disposed at an inert landfill upon special DEQ consideration. Permission for this option has not been secured at this time and therefore, costs were not generated associated with this option.
- TPS, Inc. is the local provider of off-site thermal treatment and was used for costing this option.
- Off-site management of TPH-impacted soils must be consistent with the DEQ Policy for Reuse of Petroleum Contaminated Soil; October 5, 1992 (policy #550).



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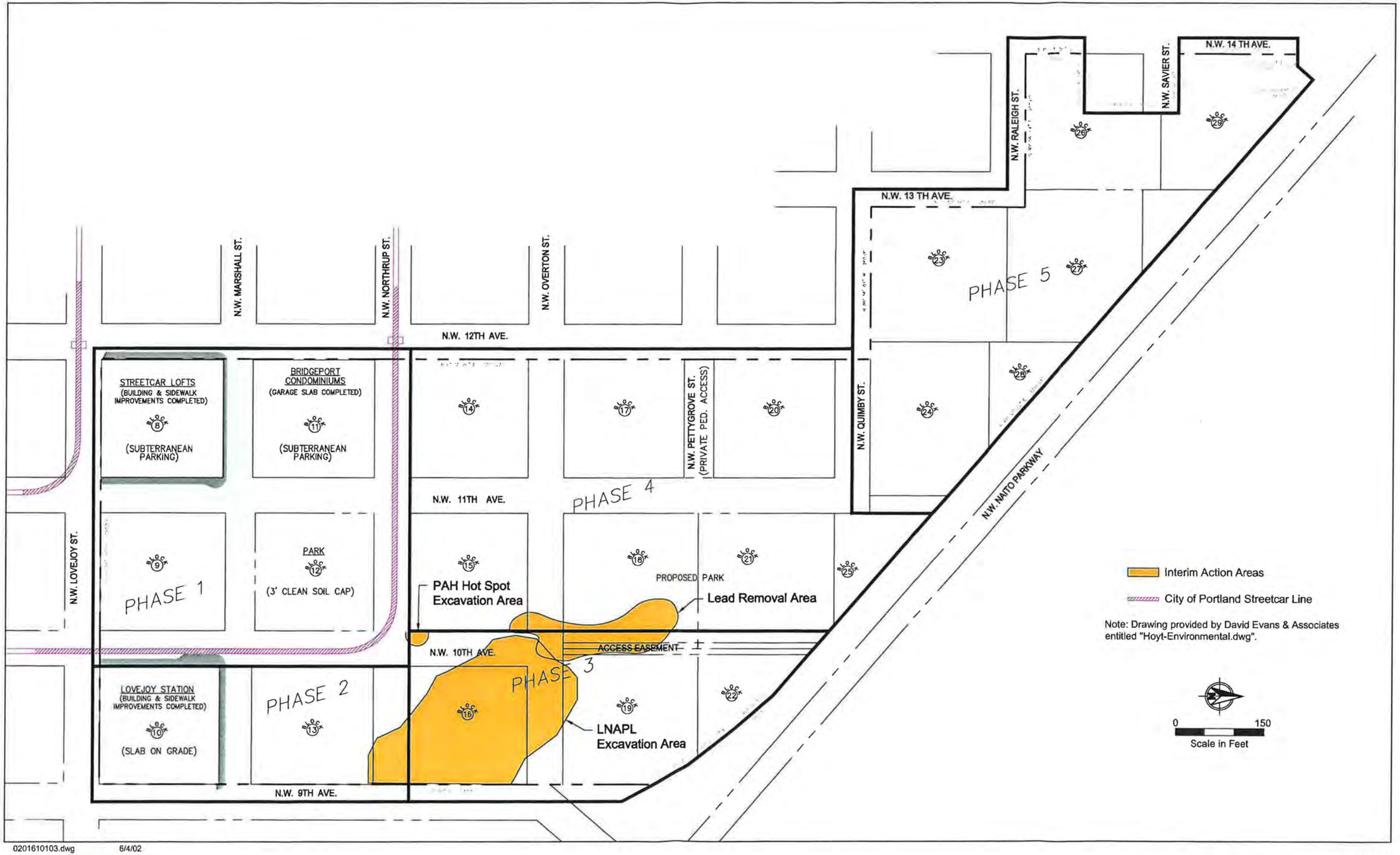
ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Vicinity Map
Hoyt Street Yards



ANCHOR ENVIRONMENTAL, L.L.C.

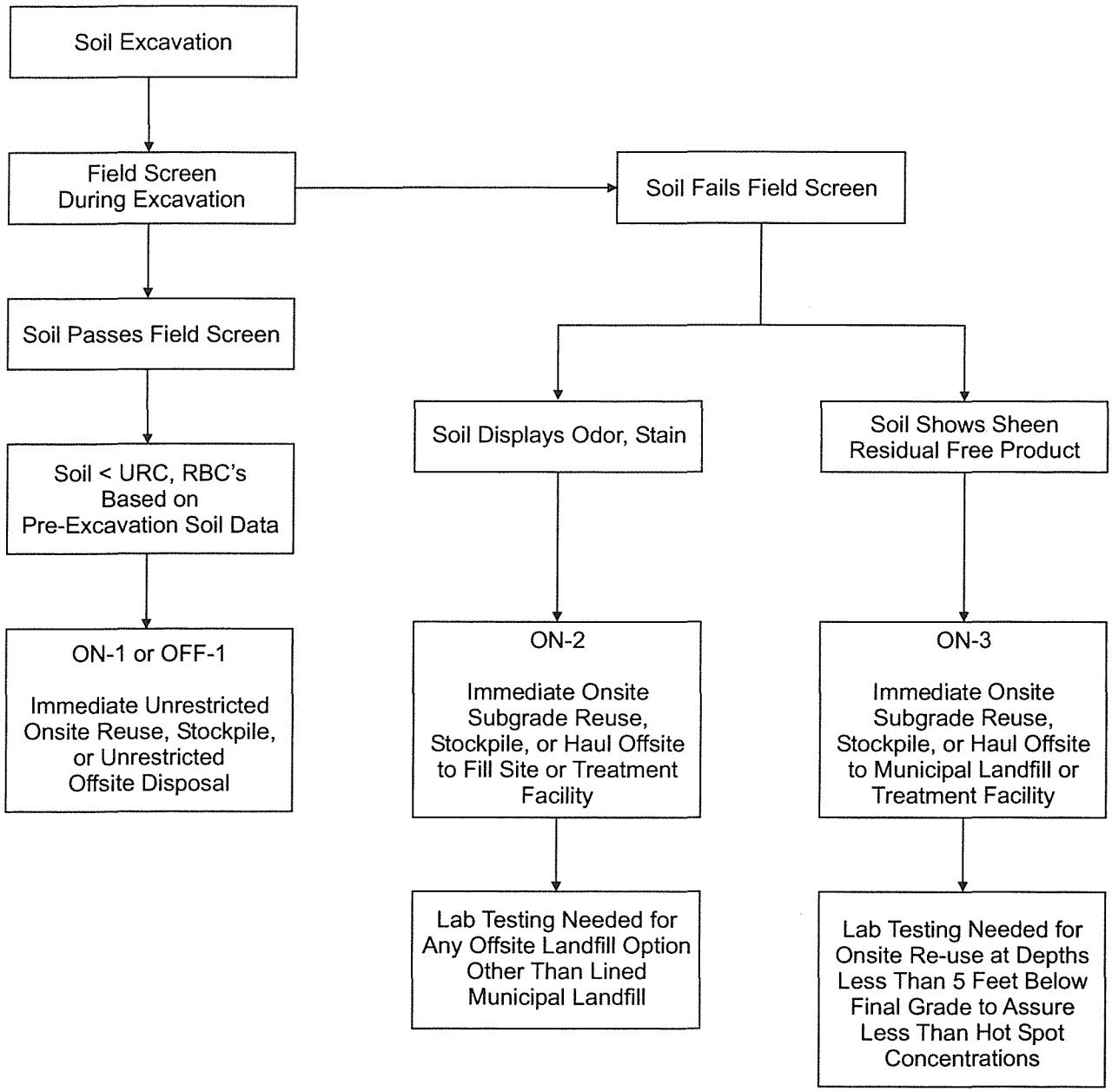
Figure 2
Site Map Showing Completed and Planned Developments
Hoyt Street Yards



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ANCHOR ENVIRONMENTAL, L.L.C.

Figure 3
Site Map Showing Area of Interim Actions
Hoyt Street Yards

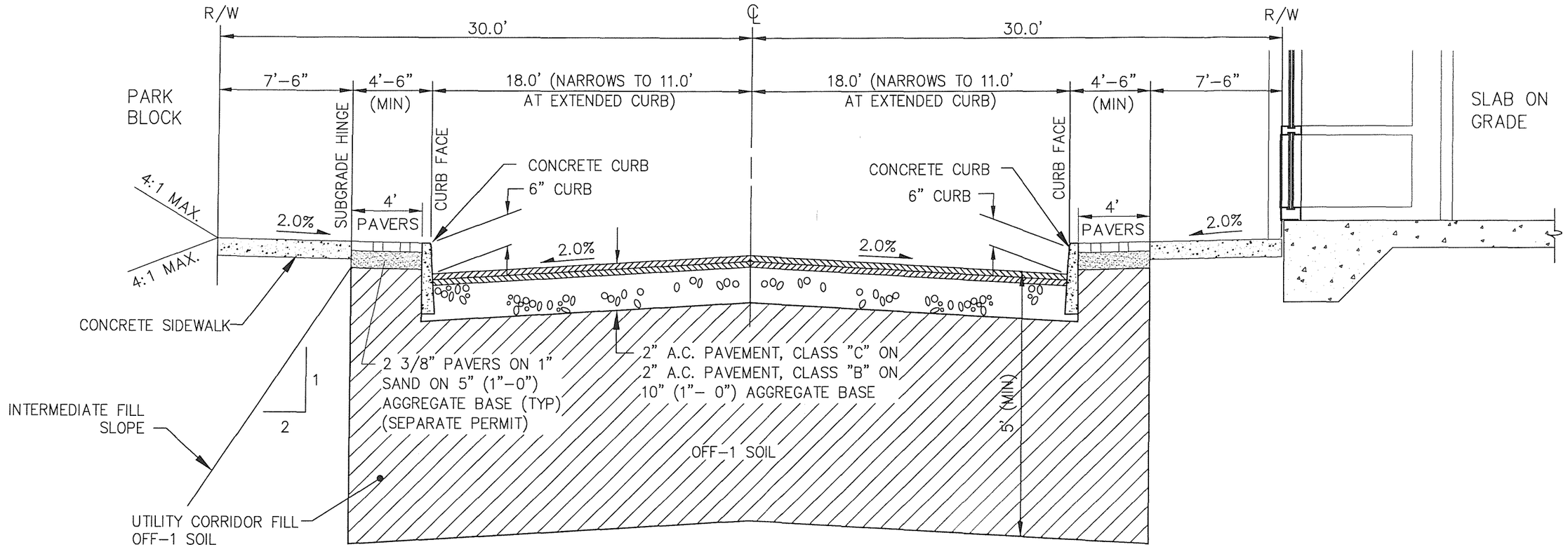


Note: See Table 2 and Table 3 for details of onsite and offsite soil management categories.

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ANCHOR ENVIRONMENTAL, L.L.C.

Figure 4
Soil Management Flow Chart
Hoyt Street Yards



TYPICAL SUBSURFACE PROFILE
BUILDING WITH AT GRADE FOUNDATION AND ADJACENT STREET

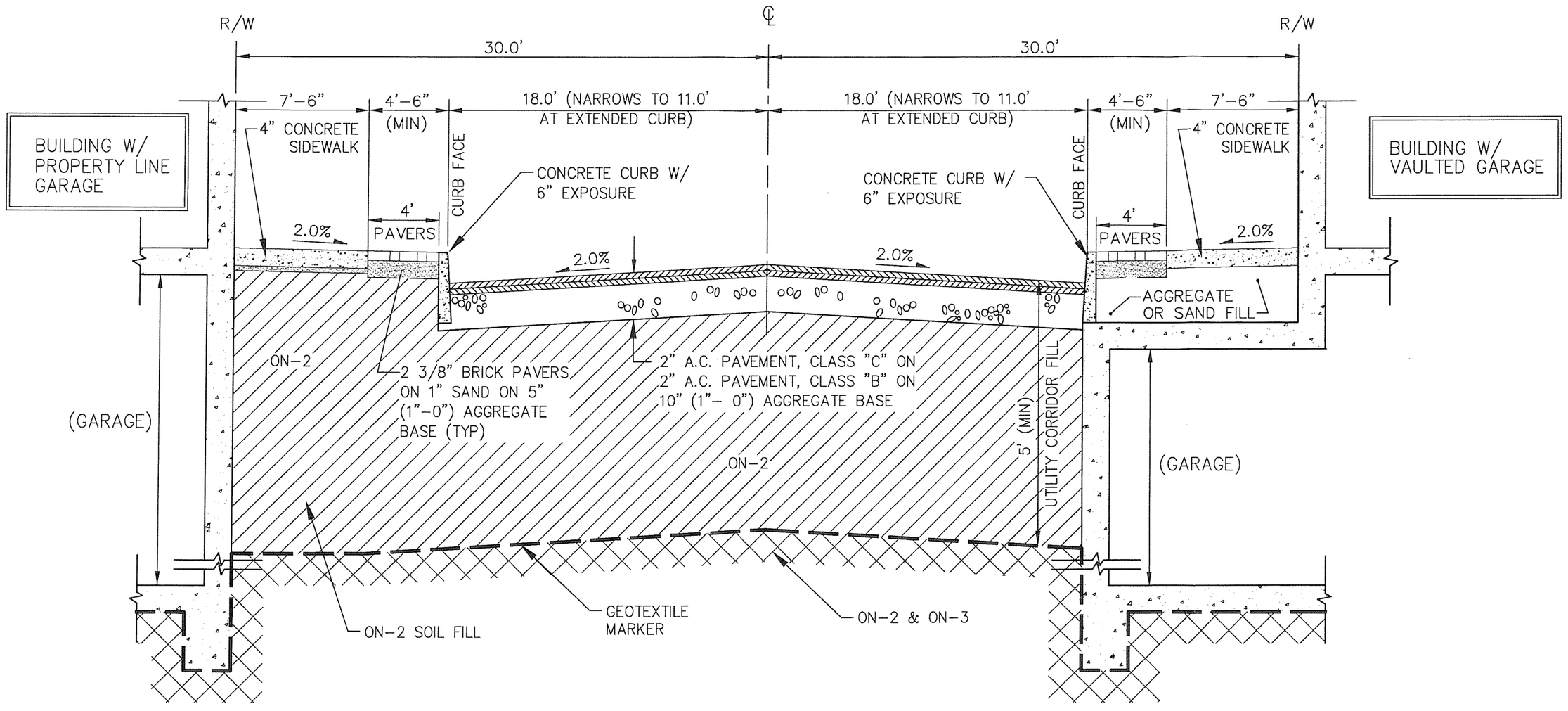
SCALE: 1"=6' HORIZ.
1"=2' VERT.

Note: Drawing provided by David Evans & Associates entitled "Hoyt-Environmental.dwg".

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ANCHOR ENVIRONMENTAL, L.L.C.

Figure 5
Street and At Grade Foundation Profile
Hoyt Street Yards



TYPICAL SUBSURFACE PROFILE
BUILDINGS WITH GARAGE OPTIONS AND ADJACENT STREET

SCALE: 1"=6' HORIZ.
1"=2' VERT.

Note: Drawing provided by David Evans & Associates entitled "Hoyt-Environmental.dwg".

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Figure 6
Street and Underground Parking Profile
Hoyt Street Yards

APPENDIX A

SITE-SPECIFIC HEALTH AND SAFETY PLAN FOR THE HOYT STREET YARDS DEVELOPMENT

PORTLAND, OREGON

Prepared for

Hoyt Street Properties, LLC

809 NW 11th Ave

Portland, Oregon 97209

June 2002, Revision 1

This is a revision of the plan dated December 1999

Prepared by

Anchor Environmental, L.L.C.

Portland, Oregon

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- Site Health and Safety Plan Acknowledgment Form
- Hazard Communication Training Record Form
- Respiratory Protection Training Record Form
- Tailgate Safety Meeting Form
- Direct Reading Air Monitoring Form
- Excavation and Trenching Check-Off List
- Confined Space Entry Permit

APPENDIX C – CHEMICAL INVENTORY & MATERIAL SAFETY DATA SHEETS

- Chemical Inventory Log
- Material Safety Data Sheets

BNSF	Burlington Northern of Santa Fe
CFR	Code of Federal Regulations
COC	Constituents of Concern
CPR	Cardiopulmonary Resuscitation
CRZ	Contamination Reduction Zone
CSEP	Confined Space Entry Permit
DEQ	Oregon State Department of Environmental Quality
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FM	Factory Mutual
HASP	Site-specific Health and Safety Plan
HBAL	Health-Based Action Limit
HEPA	High Efficiency Particulate
IDLH	Immediately Dangerous to Life and Health
ITC	IT Corporation
LEL	Lower Explosive Limit
LNAPL	Light Non Aqueous Phase Liquid
MSDS	Material Safety Data Sheet
NEC	National Electric Code
NESC	National Electric Safety Code
NIOSH	National Institute of Occupational Safety and Health
O_2	Oxygen
OAR	Oregon Administrative Rules
OR-OSHA	Oregon State Occupational Safety and Health Administration
OSHA	Occupational Safety and Health Administration
PAH	Polycylic Aromatic Hydrocarbons
PEL	Permissible Exposure Limit
PHSM	Project Health and Safety Manager
PID	Photo ionization Detector
PLHCP	Physician or other Licensed Health Care Professional
PM	Project Manager
PPE	Personal Protective Equipment

PPM	Parts per Million
RA	Risk Assessment
ROD	Record of Decision
SS	Site Supervisor
SSO	Site Safety Officer
S/T/H	Slip/Trip/Hit
SZ	Support Zone
TPH	Total Petroleum Hydrocarbons
TWA	Time-Weighted Average
UL	Underwater Laboratories

1 INTRODUCTION

1.1 Purpose

The purpose of this Site-Specific Health and Safety Plan (HASP) is to provide specific guidelines and establish procedures for the protection of personnel performing the scope of activities, as described in Section 3 — Scope of Work, of this HASP. The information in this HASP has been developed in accordance with applicable standards and is, to the extent possible, based on previous studies and information available to date. This HASP is adapted from the February 2000 HASP developed by IT Corporation (ITC) for the Phases 1 and 2 Hoyt Street Yards development.

This HASP covers the minimum level of training and personal protection equipment required for construction subcontractors, however, each subcontractor is required to develop and follow their own HASP which would address the specific site tasks and activities that they will be involved with.

This HASP is intended to be a living document in that it must continually evolve as site conditions and knowledge of the site work activities develop further. Adherence to the HASP as drafted alone, will only provide the guidance necessary to initiate the work and allow monitoring of site conditions to determine the required protection. This HASP may be modified during the project depending upon the results of personnel medical surveillance monitoring, air monitoring, or the concentration of hazardous substances encountered.

1.2 Key Personnel and Management

All personnel involved with this project will follow the health and safety procedures set forth in this plan. The Site Safety Plan Acknowledgment will be signed by all construction contractor personnel who actively participate at this project site. Construction contractors who develop their own approved HASPs should sign and follow their own HASPs.

1.2.1 Subcontractors and Visitors

Copies of this HASP shall be provided to all subcontractors and authorized visitors along with all known information with respect to the site operations and hazards covered in this plan.

1.3 Personnel Requirements

All personnel conducting activities on site for which potential exposure exists must be in compliance with all applicable Federal/State rules and regulations, including OSHA 29 CFR 1910.120, and OSHA 29 CFR 1926. The Oregon State occupational health and safety rules applicable to this project include the following: Division 2 – General Occupational Safety and Health Rules, and Division 3 – Construction. On-site personnel must also be familiar with the procedures and requirements of this HASP. In the event of conflicting safety procedures/requirements, personnel must implement those safety practices which afford the highest level of protection.

A pre-entry briefing shall be given by the Site Safety Officer (SSO) which will serve to familiarize on-site personnel with the procedures, requirements, and provisions of this HASP.

All project personnel are required to read and acknowledge their understanding of this HASP. A HASP Acknowledgment Form is included in Appendix B. All project personnel are expected to abide by the requirements of this HASP and cooperate with project management in ensuring a safe and healthful work site.

1.3.1 Project Health and Safety Manager (PHSM)

The PHSM is responsible for the preparation and modification (as necessary) of this HASP. Any significant changes in site operations, conditions, or other issues that may require alterations to the HASP, shall be discussed and approved by the PHSM. The PHSM will advise the Site Safety Officer on health and safety issues, which may have an impact on project operations.

The PHSM will also be responsible for performing initial air monitoring to access employee exposures to lead and PAHs. Refer to Section 7 for details.

1.3.2 Site Safety Officer (SSO)

The SSO will be responsible for providing independent surveillance of the routine implementation of the project HASP. The SSO may not, however, authorize changes to or variances from the HASP. Any modifications of the project HASP must be approved by the PHSM. Other duties of the SSO include:

- Immediately stopping work if Immediately Dangerous to Life or Health (IDLH) or other extremely hazardous conditions are encountered
- Verifying that all personnel have the necessary training and medical clearance prior to entering the site
- Identifying all site personnel with medical restrictions to the Project Manager (PM) or Site Supervisor (SS)
- Determining that monitoring equipment is properly calibrated and used, and that results are properly recorded and filed
- Informing the PHSM of significant changes in either the environment or work procedures which may require modification of the HASP
- Observing work party members for symptoms of on-site exposure or stress
- Overseeing implementation of the HASP, reporting any deviations from the Plan, regardless of the potential to adversely impact the health and safety of the employees, to the PM/SS and the PHSM
- Immediately notifying the PM or SS of any unsafe conditions observed, and providing technical guidance to the PM or SS for the correction of the condition
- Conducting employee exposure monitoring for workplace contaminants, noise and/or heat stress as appropriate
- Monitoring the use of required protective clothing and safe work practices
- Act as the Respiratory Program Administrator in the event that Level C protection measures are required

- Determining and posting routes to capable medical facilities and emergency telephone numbers (including poison control facilities), and arranging emergency transportation to medical facilities
- Conducting and documenting required project specific training.
- Ensuring that training and medical surveillance records are maintained on-site for all affected personnel
- Monitoring project personnel to assure ongoing compliance with the HASP

1.3.3 Employee Safety Responsibility

All employees are responsible for their own safety as well as the safety of those around them. All employees shall use any equipment provided in a safe and responsible manner, as directed by his or her supervisor. All employees are responsible for informing their supervisor if they have not received training in the safe and proper use of a piece of equipment prior to using it.

Employees are directed to take the following actions when appropriate:

- Suspend any operations which may cause an imminent health hazard to employees, subcontractors, or others.
- Correct jobsite hazards when possible to do so, without endangering life or health.
- Report all incidents, unsafe conditions, or other safety and health concerns to the SSO, SS, or PM.

1.4 Training and Medical Surveillance Requirements

1.4.1 Hazard Communication Training

The purpose of this Hazard Communication program is to ensure that the chemical hazards at this project site are communicated to all employees according to 29 CFR 1926.59(e)(2). Training is required in order to work where hazardous substances are present, even if it can be demonstrated that exposure to concentrations above action levels or Permissible Exposure Limits (PELs) will

not occur. An initial site-specific Hazard Communication training session shall be conducted for each project employee by the PHSM or SSO prior to commencement of work on the project site. Documentation of training for each worker will be noted on the Hazard Communication Training Record Form located in Appendix B, and maintained onsite.

Hazard communication training will include information concerning the types and concentrations of hazardous substances onsite as well as the health effects of exposure to these hazards. Instructions on how to minimize exposure to these substances, including work practices and personal protection equipment (PPE) shall be covered. Specific training requirements will include Appendices A and B of the Lead Standard (29 CFR 1926.62). Other issues covered during the Hazard Communication training will include the following topics:

- Personnel responsibilities
- Content and implementation of the HASP
- Site hazards and controls
- Site-specific hazardous procedures (i.e., intrusive activities, etc.)
- Medical and training requirements
- Use of direct reading monitoring equipment
- Levels of protection
- Action levels for upgrading/downgrading levels of PPE
- Decontamination procedures
- Emergency information, including local emergency response team phone numbers, route to nearest hospital, and emergency response procedures
- Instruction in the completion of required forms

In addition to the initial site briefing conducted at the commencement of the project, supplemental brief safety meetings shall be conducted by the SSO or SS to discuss potential health and safety hazards associated with upcoming tasks, and necessary precautions to be taken. These "Tailgate" safety meetings shall be documented on the Tailgate Safety Meeting Form located in Appendix B, and maintained at the project site.

1.4.2 Respiratory Protection Program/Training

Depending upon the results of occupational exposure monitoring that will be performed at the start of the project for lead and PAHs, it may be necessary for workers to wear respiratory protection during earthwork activities until engineering and work practice controls can be implemented. However, it is anticipated that normal dust suppression methods and work practices will not make the use of respirators a necessity.

In any workplace where respirators are necessary to protect the health of the employee or whenever respirators are required by the employer, 29 CFR 1910.134 – Respiratory Protection, requires each employer to establish and implement a written respiratory protection program with worksite-specific procedures. This regulation also requires employers to provide effective annual training to employees who are required to use respirators. PPE requirements involving the use of respiratory protection devices are included in Section 6 of this HASP.

If necessary, training meeting the requirements of the Respiratory Protection standard shall be provided to workers prior to their use of respiratory protection devices. The following topics among others will be addressed:

- Limitations and capabilities of the respirator
- Proper use of the respirator
- How to inspect, put on and remove, use, and check the seals of the respirator
- Procedures for maintenance and storage of the respirator
- How to recognize medical signs and symptoms that may limit or prevent the effective use of respirators

2 SITE INFORMATION

This project involves the former Hoyt Street Railyard in Portland, Oregon. This is a 26-acre site located approximately 450 feet south of the Willamette River. The site is bounded to the east by NW 9th Avenue, to the north by Naito Parkway, to the west by NW 12th Avenue, and to the south by NW Lovejoy and NW Johnson Streets. In the early 1800s, the railyard was a lake bed and marshland. Industrial use and filling of the site began in the late 1800s. The source of the fill material is poorly defined and likely included dredge spoils from the Willamette River, industrial byproducts (e.g. sawdust) from the facilities active in the area, and any other soils available at the time. A variety of industrial activities have been conducted at the site including operation of a woolen mill, a lumber mill, a steel mill, and a petroleum tank farm. The property was used for railroad fueling and maintenance, and other industrial activities from the turn of the century until October 1998. Soil and groundwater beneath much of the site has been affected by these industrial activities, with the highest degree of impacts in former operational areas. The primary constituents of concern (COCs) for the site are PAHs and lead.

The site boundaries are currently fenced and most of the former railroad facilities, including tracks, fueling facilities, turntable, and buildings have been removed. Future land use scenarios are based on plans to redevelop the former railyard as an urban residential neighborhood. As currently planned, the redevelopment will include very high-density residential use with commercial at grade (first floor), roads, a trolley car, and parks. The redevelopment will be completed over an approximately 10- to 15-year time frame. While the general redevelopment plan is known, the details are poorly defined and may change based on the market demand. The future beneficial use for groundwater at the site is recharge of the Willamette River.

The Risk Assessment (RA) performed for this project identified potential human health and ecological effects associated with exposure to chemicals that are present in soil, groundwater, and/or surface water at the site. The RA concluded that risks are primarily related to human contact with the soil.

The RA also lists COC soil concentrations at the site that one thought to pose a human health risk, due to contact with soil, based on whether the worker is a general construction worker or working in an excavation trench or utility corridor. These Health-Based Action Levels (HBAL) are listed in Table 4-1.

3 SCOPE OF WORK

The Record of Decision (ROD) for this site requires that soil be remediated by the following action:

Excavation and thermal treatment or disposal of hot spot soil; excavation, stabilization (as needed), and disposal of hazardous lead soil; excavation of soils exceeding HBALs in utility corridors; capping of the entire site; institutional controls.

All currently known lead and PAH hot spot soils were removed in interim actions by BNSF in 2001. BNSF also removed petroleum LNAPL from the block 16 area in 2001 and 2002. Those actions are described in Section 2.1 of the Soil RDRA Workplan.

The RA identified direct skin contact as the principal exposure pathway for the contaminants on this project, regardless of the Remedial Action Alternative chosen. Therefore, the principal means of insuring that project workers do not exceed a HBAL is to prevent direct contact with site soils. This will be accomplished through employee training, work practices, and the use of PPE.

4 HAZARD EVALUATION

This section identifies and evaluates the potential chemical, physical, and biological hazards which may be encountered during all field-related activities.

4.1 Chemical Hazards

The suspected contaminants found on this site may be exposed during earthwork activities. The routes of exposure from these contaminants are primarily through inhalation of organic vapors and dusts, and by direct contact with contaminated soil/fill and groundwater.

Any chemicals or hazardous substances that contractors bring onto this site should be recorded in the Chemical Inventory Log located in Appendix C of this plan, along with their associated Material Safety Data Sheet (MSDS).

The RA identified COCs for soil and groundwater. The primary hazards identified include lead, PAH, and TPH. Table 4-1 lists numeric Health Based Action Levels (HBALs) for each of the COCs in soil. These HBALs are based on physical contact with the soil and correspond to a cancer risk of 10^{-6} for each individual constituent. The combined cancer risk from the COCs is less than 10^{-5}.

Table 4-1
Health-Based Action Levels (HBAL)

Constituent of Concern	Soil	
	Hoyt Street Construction Worker Soil (0-15') (mg/kg)	EQ Excavation/Trench Worker Soil (0-15') (mg/kg)
Lead	2,000	2,000
Benzo(a)anthracene	11.1	209
Chrysene	1,106	20,929
Benzo(b)fluoranthene	11	207
Benzo(k)fluoranthene	110	2,093
Benzo(a)pyrene	1.1	21
Dibenzo(a, h)anthracene	1.9	21
Indeno(1,2,3-cd)pyrene	11.1	209
TPH	41,000	460,000

According to the sampling data contained in the Final Feasibility Study performed for this project (ThermoRetec, July 30, 1999) there was one area at the project site that exceeded the soil lead 2,000 mg/kg HBAL for Excavation/Trench and Construction workers (0 to 15 feet BGS). BNSF completed a removal of 2061 tons of lead impacted soil from the area in September 2001, consistent with the ROD and DEQ-approved work plan. That work is described in the Lead Area Soil Removal Completion Report.

In 2001 BNSF also completed removal of the only known PAH soil hot spot area. That hot spot was located near the intersection of NW 10th Ave and Northrup Ave. It is possible that other currently unknown lead and/or PAH hot spots exist onsite. Those areas may be discovered by pre-excavation soil testing prior to earthwork activities.

A summary of the potential contaminant properties and their associated exposure limits and symptoms of exposure is included below.

Inorganic Lead

Personal protective clothing, equipment/clothing deconing, and work procedures (such as dust control measures), shall be used to minimize worker exposures to elevated concentrations of lead. In addition, air monitoring will be performed in order to insure that airborne concentrations of lead are not exceeding or approaching an exposure limit.

A wide variety of industrial populations are at risk of occupational exposure to lead. Intense occupational exposure to lead over a brief period of time can cause a syndrome of acute lead poisoning. Characteristics of this syndrome are abdominal colic, constipation, fatigue, hemolytic anemia, peripheral neuropathy, and in some cases, alteration of central nervous system function. In profound cases, full-blown acute encephalopathy with coma and convulsions may occur. In milder cases, only

headache or personality changes may be evident as manifestations of the neurologic toxicity of lead. Chronic inorganic lead intoxication is an insidious illness and is highly prevalent among persons regularly overexposed to lead. Symptoms include arthralgias (joint pain), headache, weakness, depression, loss of libido (energy, sex drive), impotence, and vague gastrointestinal difficulties. Late effects of chronic inorganic lead intoxication include chronic renal failure, gout, chronic encephalopathy, and hypertension. The OR-OSHA PEL, 8-hour Time Weighted Average (TWA), for inorganic lead is 50 $\mu g/m^3$ of air. The Action Level, TWA, is 30 $\mu g/m^3$ of air.

Polycyclic Aromatic Hydrocarbons (PAHs)

The same precautions taken to minimize workers exposure to lead will be effective to minimize exposures to PAHs and TPHs as well.

PAHs consist of a large group of mainly solid materials soluble in fats, oils, and organic solvents. These compounds occur widely in the environment from both man-made and natural sources. They are formed during the incomplete burning of coal, oil, gas, garbage, and other organic substances. PAHs are fairly insoluble in water, their major route of transport in water is by attaching themselves to floating particles. Some of these compounds have been identified as being probable human (B2) carcinogens. Most of the human data on their carcinogenicity comes from studies of workers exposed to high levels of heated materials with prolonged contact with the skin. There is little evidence to suggest that these compounds can cause cancer through any other route of exposure. PAHs vary in their human health risks, and assigning specific effects to individual PAHs is difficult, since most exposures involve a mixture of PAHs. The carcinogenic varieties of PAHs are often referred to as coal tar pitch volatiles. Synonyms for coal tar pitch volatiles vary depending upon the specific compound (e.g., pyrene, phenanthrene, acridine, chrysene, and benzo(a)anthracene). The OR-OSHA PEL-TWA for coal tar pitch volatiles is 0.2 mg/m^3.

Oil Range Petroleum Hydrocarbons

Oil range petroleum hydrocarbons usually fall within the category of fuel oil #5, and #6 which are also referred to as Bunker C. These are highly viscous, dark liquids with a flash point between 130 and 150^0 F. It has a density <1 and an auto ignition temperature of approximately 750^0 F. The toxic effects of these oil range petroleum hydrocarbons may be similar to that of diesel except to a lesser degree since it doesn't volatalize as readily. These toxic effects include irritation of the skin, and inhalation of high concentrations of vapors and cause headaches and stupor. There is no established PEL for these oil range petroleum hydrocarbons. The OR-OSHA PEL for petroleum distillates (naphtha, Rubber Solvent) is 500 Parts per Million (PPM).

4.1.1 Additional Construction Related Inhalation Hazard – Silica

Concrete and masonry products contain silica sand and rock containing silica. Since these products are primary materials for construction, construction workers may be easily exposed to respirable crystalline silica during activities such as the following:

- Chipping, hammering, and drilling of rock
- Crushing, loading, hauling, and dumping of rock
- Abrasive blasting using silica sand as the abrasive
- Abrasive blasting of concrete (regardless of abrasive used)
- Sawing, hammering, drilling, grinding, and chipping of concrete or masonry
- Demolition of concrete and masonry structures
- Dry sweeping or pressurized air blowing of concrete, rock, or sand dust

It is very important to limit the concentration of crystalline silica that workers inhale. Lung tissue exposed to crystalline silica reacts by developing fibrotic nodules and scarring around the trapped silica particles. Long term exposures can lead to a fibrotic condition called silicosis. If the nodules grow too large, breathing becomes difficult and death may result. A worker may develop any of

three types of silicosis, depending on the airborne concentration of crystalline silica:

- *Chronic silicosis*, which usually occurs after 10 or more years of exposure to crystalline silica at relatively low concentrations.
- *Accelerated silicosis*, which results from exposure to high concentrations of crystalline silica and develops 5 to 10 years after the initial exposure.
- *Acute silicosis*, which occurs where exposure concentrations are the highest and can cause symptoms to develop within a few weeks to 4 or 5 years after the initial exposure.

Furthermore, evidence indicates that crystalline silica is a potential occupational carcinogen and National Institute of Occupational Safety & Health (NIOSH) is reviewing the data on carcinogenicity.

Wet methods shall be used when performing any concrete grinding or chipping activities in order to insure that workers are not exposed to elevated concentrations of total and respirable crystalline silica. A water source should be provided at the point of operation as long as it does not pose an electrical hazard.

4.1.2 Chemical Hazard Controls

Hazard controls usually fall into one of the following three categories:

- Engineering controls that engineer out the hazard, either by initial design specifications or by applying methods of substitution, isolation, or ventilation.
- Administrative controls that control employees' exposures by scheduling reduced work times in contaminant areas, and/or other work rules.
- PPE that should be considered a method of last resort when engineering controls are not sufficient to achieve acceptable limits of exposure. PPE can be used in conjunction with engineering controls and other methods.

Exposure to lead, PAHs, TPHs, and crystalline silica shall be controlled by:

- Contact with the soil presents the highest risk for construction workers on this site. Workers will be required to wear PPE when working on this site. This PPE will involve the use of dust and soil resistant clothing in the form of disposable or washable coveralls. Section 6 of this plan details the requirements for PPE.
- During Phases 1 and 2 construction activities in 2000, initial area and personal exposure air monitoring for lead and PAHs were conducted in those areas of the site where the soil had been identified as containing elevated concentrations of lead (> 400 mg/kg) and total petroleum hydrocarbons (> 700 mg/kg). This monitoring provided evidence that construction worker airborne exposure to lead and PAH concentrations were below the limits established by Oregon OSHA. The data obtained from that monitoring is available from Anchor Environmental, L.L.C. upon request. Section 7 of this plan details the requirements for employee exposure monitoring that were followed in 2000.
- Particulate/respirable dust levels will be monitored with a respirable dust monitor.
- Dust control measures, such as wetting the immediate area, shall be employed.
- Respiratory protection will be used, based on exposure monitoring results as appropriate, in areas known to have concentrations above the specified action level for each contaminant.

Monitoring can reduce risks by indicating when action levels have been exceeded and PPE must be upgraded. Action levels are located in Table 7-1 of this Plan.

4.1.3 Dust Control

Excessive generation of dust can limit visibility, cause irritation to workers, and create airborne chemical contamination which spreads the overall extent of contamination and puts nearby unprotected personnel at risk of overexposure.

Project personnel will take all reasonable precautions to minimize the generation of dust at the worksite. Such precautions include operating vehicles in a slow and deliberate manner and working materials in a wet state whenever possible. Where dust generation is significant, the SSO will be contacted to take dust concentration measurements, and if necessary, implement dust reduction measures (up to and including misting of the dust cloud or ceasing operations).

The most effective way to control dust is to minimize its initial generation. Preventative measures will be implemented by project personnel to maintain fugitive dust emissions at levels below action levels established in Table 7-1. The following list details methods and measures to be applied:

- Enforcement of a 10 mph speed limit on dirt haul roads
- Schedule and stage operations to take advantage of prevailing winds
- Dry brooming is prohibited. Instead, use vacuuming, wet mopping, or wet sweeping
- Air blowing shall not be permitted for cleaning surfaces or clothing
- Only wet cutting is permitted for cutting concrete blocks and concrete

4.1.4 Skin Contact and Absorption

Skin contact with contaminants may be controlled by use of the PPE and good housekeeping procedures. The proper PPE (e.g., coveralls, gloves) as described in Section 6, shall be worn for all activities where contact with potentially contaminated media or materials are expected.

4.2 Physical Hazards

Physical hazards that may be present during these site activities include potential for close proximity to heavy equipment, excavation/trenching operations, noise, utilities, slip/trip/hit/fall injuries, temperature stress, and other potential adverse weather conditions. In addition, personnel must be aware that the protective equipment

worn may limit dexterity and visibility and may increase the difficulty of performing some tasks.

4.2.1 Utility Clearances

- Elevated superstructures (e.g., drill rigs, cranes) shall remain a distance of 10 feet away from utility lines and 20 feet away from power lines.
- Prior to all intrusive activities (e.g., excavating), locator line services will be contacted to mark underground lines.
- Personnel involved in intrusive work shall determine the minimum distance from marked utilities which work can be conducted with the assistance of the Local Agency.

4.2.2 Heavy Equipment

Heavy equipment that will potentially be utilized at the site includes a variety of backhoes, dozers, track loaders, and off-road trucks.

The following practices shall be followed when using heavy equipment:

- Equipment should be inspected daily by the operator to ensure that there are no operational problems
- When not in use, hydraulic and pneumatic components should be left in down or "dead" position
- Rollover protection shall be provided on hilly sites
- Seat belts shall be provided on all pieces of earthmoving equipment except for those designed for standup operation or which do not have rollover protection
- No riding on vehicles or equipment except in fixed seats
- Foot traffic shall be restricted while heavy equipment is in operation. Workers remaining around any heavy equipment shall be kept to a minimum

- Approved "Back-up" warning devices shall be provided on all earthmoving or compacting equipment that has an obstructed view to the rear.

4.2.3 Excavation and Trenching

All excavation and trenching operations shall be in compliance with OSHA 29 CFR 1926.650 through 652. Daily inspections of excavations shall be made by a competent person, one who has received training in excavation safety and who has been designated a competent person by the contractor performing the excavation.

A "Competent Person" means someone who is capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Excavation and Development

The following safety guidelines shall be adhered to while conducting excavation development and pipe installation:

- Prior to opening an excavation, effort shall be made to determine whether underground installation (e.g., sewer, telephone, water, fuel electric lines, etc.) will be encountered and the estimated location. When the excavation approaches the estimated location, the exact location shall be determined and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation.
- Ladders will be used in any trench greater than 4 feet in depth, and must be available with every 25 feet of lateral travel. The ladders must extend above the trench at least 3 feet.
- Protective systems in compliance with OR-OSHA (i.e., shoring/bracing, sloping or benching) shall be used if personnel are to enter excavations,

except when excavations are less than 5 feet in depth and a competent person has determined that a cave-in hazard does not exist. All employees who enter excavations 5 feet or greater in depth shall be protected from cave-in hazards in accordance with 1926.652, unless the excavation is made entirely in stable rock.

- Sloping or benching shall be in accordance with the OSHA standard and shall correspond to the proper ratio (i.e., 1½:1), per soil type as determined by the competent person.
- Air monitoring for hazardous atmospheres (i.e., combustible gases and volatile organics, oxygen deficient environments) shall be conducted prior to personnel entering the trench with a depth at 4 feet or greater.
- Barriers shall be erected around excavations in remote work locations. Backfill all excavations, temporary wells, pits, and shafts when work is completed.
- Adjoining buildings, walls, or other structures that are endangered by excavation operations shall be provided with support systems such as shoring, bracing, or underpinning to ensure their stability and for the protection of employees.
- If employees are to work near the edge of an excavation 6 feet or more in depth they shall be protected from falling into the excavation by guardrail systems, fences, or barricades.
- Vehicular traffic and heavy equipment shall remain at least 4 feet from the face of the excavation. All excavated or other materials shall be stored and retained at least 2 feet from excavation.
- The excavation shall be inspected by the selected competent person throughout the workday, during any change in conditions (i.e., rain, cracking/fissures), and at a minimum twice daily. An Excavation and Trenching Check-Off List is furnished in Appendix B.

4.2.4 Confined Space Entry Hazards

A confined space has all of the following conditions present:

- Is large enough, and so configured that, an employee can bodily enter and perform assigned work
- Has limited or restricted means for entry or exit
- Is not designed for continuous employee occupancy

A confined space may be subject to the accumulation of toxic or flammable materials, and/or the deletion of oxygen. Example of confined spaces are: storage tanks, process vessels, ventilation or exhaust ducts, sewers/manholes underground utility vaults, tunnels, pipelines and open top spaces more than four feet in depth such as, trenches and vaults.

A permit-required confined space (permit space) means a confined space that has *one or more* of the following characteristics:

- Contains or has a potential to contain a hazardous atmosphere, OR
- Contains a material that has the potential for engulfing an entrant, OR
- Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls, or by a floor which slopes downward, OR
- Contains any other recognized, serious safety or health hazard.

Hazardous atmosphere means an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue (that is, escape unaided from a permit space), injury, acute illness. Such hazards can be presented in *one or more* of the following:

- Flammable gas, vapor, or airborne combustible dust in excess of 10 percent of its lower explosive limit (LEL)
- Oxygen concentration below 19.5 percent or above 23.5 percent
- Atmosphere concentrations of vapors or gases above their exposure limit.

Initial Evaluation for Entry into Confined Spaces

Requirements must be established for safe entry, conducting work in, and safe exit from confined spaces. Additional information regarding confined space entry can be found in 29 CFR 1926.21, 29 CFR 1910.146, and NIOSH Publication Number 80-106.

If confined spaces are encountered on this project, and entry is required, the SSO or PHSM shall determine if the spaces are permit required. If the space does not meet the definition of a permit required space (i.e. there are no hazards present, and the work to be performed does not introduce hazards), then the space will be considered a non-permit required confined space.

If the space to be entered is a permit required space as defined above, or if a determination cannot be made without entering the space, the requirements of the following Permit-Required Confined Space Procedures shall be implemented.

Confined Space Entry Procedures

No task(s) involving confined space entry may begin until an appropriate Confined Space Entry Permit (CSEP) is issued. A CSEP shall be initiated by the supervisor(s) of personnel who are to enter into or work in a confined space. The CSEP will be completed by the personnel involved in the entry, and approved by the confined space entry supervisor before personnel will be permitted to enter the confined space. The CSEP shall be valid only for the performance of the work identified, and for the location and time specified. Permits must be reissued at the beginning of each work day, each work shift, or if the confined space has not been monitored within one-half hour. The CSEP shall be considered void if work in the confined space significant changes within the confined space atmosphere or job scope occurs. An example of a blank CSEP is shown in Appendix B.

The posted CSEP shall be removed at the completion of the job or the end of the day whichever is first. The CSEP must be posted at the work site, and a copy placed in the project health and safety file after use.

The following are general procedures for confined space entry activities:

- Evaluate the job and identify the potential hazards before a job in a confined space is scheduled.
- If possible, ensure removal of any materials that may produce toxic or air displacing gases, vapors, or dust.
- Initiate a CSEP.
- Ensure that any hot work (welding, burning, open flames, or spark-producing operation) that is to be performed in the confined space has been approved by the confined space entry supervisor and is indicated on the CSEP.
- Ensure that the space is ventilated (if necessary) before starting work in the confined space and for the duration of the time that the work is to be performed in the space. If space cannot be ventilated properly, then supplied-air respiratory protection must be used.
- Ensure that the personnel who enter the confined and the confined space entry attendant(s) are familiar with the contents and requirements of this HASP.
- Ensure that remote atmospheric testing of the confined space is conducted prior to employee entry and before validation/revalidation of a CSEP, to confirm the following:
  - Oxygen content between 19.5 percent and 23.5 percent.
  - No concentration of combustible gas in the space is above 10 percent LEL. Sampling will be done throughout the confined space, and specifically at the lowest point in the space.
- Only personnel trained and knowledgeable of the requirements of these Confined Space Entry Procedures will be authorized to enter a confined space or be a confined space observer.

- The CSEP will become a part of the permanent and official record of the site.
- If flammable liquids, gases, or vapors may be contained within the confined space, explosion-proof equipment will be used. All electrical equipment shall be positively grounded.
- The contents of any vessel shall, when necessary, be removed prior to entry. All sources of ignition must be removed prior to entry.
- If a confined space requires respiratory equipment or rescue from the space may be difficult, safety belts, body harnesses, and lifelines will be used. The outside observer shall be provided with the same equipment as those working within the confined space.
- A ladder is required in all confined spaces deeper than the employee's shoulders. The ladder shall be secured and not removed until all employees have exited the space.
- Where air-moving equipment is used to provide ventilation, chemicals shall be removed from the vicinity to prevent introduction into the confined space.
- Vehicles shall not be left running near confined space work or near air-moving equipment being used for confined space ventilation.
- Any deviation from these confined space entry procedures requires the prior approval of the PHSM.

Confined Space Entrant Responsibilities

The confined space entrant shall be informed of the hazards before entry, communicate with the entry attendant, and exit the space upon any change in conditions that may impact the safety of herself or himself.

Confined Space Entry Attendant Responsibilities

A confined space entry attendant is an individual assigned to monitor the activities of personnel working within a confined space. The confined space

attendant monitors and provides external assistance to those inside the confined space. The duties of the attendant are:

- While personnel are inside the confined space, a confined space entry attendant will monitor the activities and provide external assistance to those in the space.
- The confined space attendant shall maintain some form of contact with all personnel in the confined space. Visual contact is preferred, if possible.
- The attendant shall contact the Entry Supervisor in the event of an emergency.
- If irregularities within the space are detected by the observer, personnel within the space will be ordered to exit.
- The rescue of an unconscious person within the confined space shall never be attempted without the use of supplied air respiratory protection and contacting a replacement observer. Removal of personnel should first be attempted from the outside using a lifeline.

Confined Space Entry Supervisor Responsibilities

- Know the hazards
- Verify appropriate entries are made on the permit and procedures are in place
- Terminate the entry (if necessary)
- Verify that rescue services are available
- Remove all unauthorized personnel

Assure that entry procedures are in compliance with the CSEP and are consistent from operation to operation

4.2.5 Vehicular Traffic Hazards

Work sites involving earthmoving operations often experience high traffic flow conditions and limited visibility. This situation presents a significant hazard to site workers. Employees are reminded to maintain a high degree of awareness of

moving vehicles on the site. The following guidelines concerning traffic-warning devices should be followed when working in traffic flow areas:

- Employees shall wear fluorescent orange vests when working around traffic flow areas. Ensure that there is a clear line of sight between approaching traffic and the work area.
- Orange cones, at least 28 inches high, are typically used to direct traffic flow on roadways, but are not always appropriate as a flagging device on construction work sites. Due to the low height, a cone can be easily overlooked, especially when earthmoving equipment is backing up. Cones should be stacked to at least 5-feet high with flags attached at the top to be more visible. Alternatively, a fluorescent orange post and base device with flagging at the top may be used.
- In work areas where there is a high risk of impact from vehicular traffic, a buddy system shall be used. One employee shall act as a lookout for the other employee performing the specific work activity.

4.2.6 Materials Handling

Loading and unloading construction materials present a variety of hazards. These include cuts and abrasions from sharp objects, back injuries from poor lifting techniques, crushing injuries from falling or moving loads, pinch points, and being struck by moving equipment or loads. The following fundamentals address the proper lifting techniques that are essential in preventing back injuries:

- The size, shape, and weight of the object to be lifted must first be considered. No individual employee should lift any object that weighs over 60 pounds. Multiple employees or the use of mechanical lifting devices are required for objects over the 60-pound limit.
- Keep your feet shoulder width apart to get the best footing possible.
- Bend at the knees, not at the waist.
- Tighten stomach muscles to offset the force of the load.
- Grasp the object at opposite corners.

- Lift with the legs instead of the back muscles.
- Keep the back upright and avoid twisting.
- Keep the object as close to the body as possible when lifting or carrying.
- Most importantly, think before lifting.

4.2.7 Control of Hazardous Energy Sources (Lockout/Tagout)

Employees shall not be permitted to work on any part of an electrical power circuit unless the person is protected against electric shock by de-energizing the circuit and grounding it, and it has been locked and tagged out. All electrical work will be performed in accordance with the requirements detailed in Oregon Administrative Rules (OAR) 437, Division 3, 1926.400.

- All electrical wiring and equipment shall be a type listed by Underwriters' Laboratories (UL) or Factory Mutual (FM) for the specific application.
- All installations shall comply with the National Electric Code (NEC) and the National Electric Safety Code (NESC).
- All electrical circuits shall be grounded according to NEC and NESC. Ground fault circuit interrupters shall be used in the absence of properly grounded circuitry or when portable tools must be used around wet areas.
- All live wiring or equipment shall be guarded to protect all persons or objects from harm.
- No work will be permitted during any type of electrical storm.

Lockout/Tagout Guidelines

An overview of a typical lockout/tagout program is as follows:

- Check equipment file for specific lockout/tagout procedures.
- Determine the requirements for lockout. If there is more than one energy source to the equipment, document each source.
- Shut off energy source(s) to affected equipment.
- Affix lock(s) and tag(s) to each energy source-controlling device.

- Blind, blank, disconnect, or double valve and vent all hazardous material lines, including steam, and identify the isolation points with tags.
- Relieve all stored energy from capacitor banks, springs, compressed air, hydraulic, steam, etc.
- Verify isolation of energy has occurred by attempting to activate equipment by using the on/off switch.
- Perform maintenance or repairs.
- Notify all affected employees and site supervisor before re-energizing the equipment.
- Remove lockout/tagout device.
- Re-energize equipment or place back into service.

4.2.8 Adverse Weather Conditions

The SS shall decide on the continuation or discontinuation of work based on current and pending weather conditions. Electrical storms, tornado warnings, and strong winds are examples of conditions that would call for the discontinuation of work and evacuation of site.

4.2.9 Slip/Trip/Hit Hazards

Slip/trip/hit (S/T/H) injuries are one of the most frequent of all injuries to workers. They occur for a wide variety of reasons, but can be minimized by the following prudent practices:

- Spot check the work area to identify hazards.
- Establish and utilize a pathway which is most free of slip and trip hazards.
- Beware of trip hazards such as wet floors, slippery floors, and uneven surfaces or terrain.
- Carry only loads that you can see over.
- Keep work areas clean and free of clutter, especially in storage rooms and walkways.
- Communicate hazards to on-site personnel.

- Secure all loose clothing and ties and remove jewelry while around machinery.
- Report and/or remove hazards.
- Keep a safe buffer zone between workers using equipment and tools.

4.2.10 Fall Protection

Employers shall take measures to protect workers from fall hazards during construction activities. Workers exposed to fall hazards of 6 feet or greater are required to be protected and trained in accordance with the fall protection regulations detailed in OAR 437, Division 3, 1926.500. Employers should submit a fall protection work plan that identifies anticipated fall hazards and defines measures to mitigate them.

4.2.11 Noise

Excessive noise is hazardous not only for its potential to damage hearing, but also its potential to disrupt communications and instructions.

- All employees will have access to disposable ear plugs with a Noise Reduction Rating of not less than 30.
- Ear plugs must be worn in any environment where workers must raise their voices to be heard while standing at a distance of three feet or less.
- Ear plugs must be worn by any personnel operating concrete cutting or sawing equipment.

4.2.12 Heat Stress

Recognition and Symptoms

Temperature stress is one of the most common illnesses at hazardous waste sites. Acclimatization and frequent rest periods must be established for conducting activities where temperature stress may occur. Below are listed signs and symptoms of heat stress. Personnel should follow appropriate guidelines if any personnel exhibit these symptoms:

Heat Rash - Redness of skin. Frequent rest and change of clothing.

Heat Cramps - Painful muscle spasms in hands, feet, and/or abdomen. Administer lightly salted water by mouth, unless there are medical restrictions.

Heat Exhaustion - Clammy, moist, pale skin, along with dizziness, nausea, rapid pulse, fainting. Remove to cooler area and administer fluids.

Heat Stroke - Hot dry skin red, spotted or bluish skin, high body temperature of 104°F, mental confusion, loss of consciousness, convulsions, or coma. Immediately cool victims by immersion in cool water. Wrap with wet sheet while fanning, sponge with cool liquid while fanning; treat for shock. **DO NOT DELAY TREATMENT. COOL BODY WHILE AWAITING AMBULANCE.**

Work Practices

The following procedures will be carried out to reduce heat stress:

- Acclimatization
- Work/rest regimes
- Liquids that replace electrolytes and salty foods available during rest
- Use of buddy system
- Avoid consumption of caffeinated drinks such as coffee or carbonated drinks.

Acclimatization

The level of heat stress at which excessive heat strain will result depends on the heat tolerance capabilities of the worker. Each worker has an upper limit for heat stress beyond which the resulting heat strain can cause the worker to become a heat casualty. In most workers, appropriate repeated exposure to elevated heat stress causes a series of physiologic adaptations called acclimatization, whereby the body becomes more efficient in coping with the heat stress. Work and rest regimes will be partially determined by the degree of acclimatization provided.

Worker Information and Training

All new and current employees who work in areas where there is a reasonable likelihood of heat injury or illness should be kept informed, through continuing education programs of:

- Heat stress hazards.
- Predisposing factors and relevant signs and symptoms of heat injury and illness.
- Potential health effects of excessive heat stress and first aid procedures.
- Proper precautions for work in heat stress areas.
- Worker responsibilities for following proper work practices and control procedures to help protect the health and safety of themselves and their fellow workers, including instruction to immediately report to the employer the development of signs or symptoms of heat stress overexposure.
- The effects of therapeutics drugs and over-the-counter medications may increase the risk of heat injury or illness by reducing heat tolerance.

4.2.13 Cold Stress

Recognition and Symptoms

Ambient air temperatures during site activities may create cold stress for on-site workers. Procedures for recognizing and avoiding cold stress must be followed. Cold stress can range from frostbite to hypothermia. Below are listed the signs and symptoms of cold stress. Personnel should follow the appropriate guidelines if any personnel exhibit these symptoms:

- Frostbite — Pain in the extremities and loss of manual dexterity. "Frostnip" or reddening of the tissue, accompanied by a tingling or loss of sensation in the extremities. Continuous shivering.
- Hypothermia — Pain in the extremities and loss of manual dexterity. Severe, uncontrollable shivering. Inability to maintain level of activity. Excessive fatigue, drowsiness, irritability, or euphoria. Severe

hypothermia: clouded consciousness, low blood pressure, pupil dilation, cease of shivering, unconsciousness, and possible death.

- Remove the patient to a warm, dry place. If clothing is wet, remove and replace with dry clothing. Keep patient warm. Re-warming of patient should be gradual to avoid stroke symptoms. Dehydration or the loss of body fluids may result in cold injury due to a significant change in blood flow to the extremities. If patient is conscious and alert, warm sweet liquids should be provided. Coffee and other caffeinated liquids should be avoided because of diuretic and circulatory effects. Extremities affected by frostbite should be gradually warmed up and returned to normal temperature. Moist compresses should be applied; begin with lukewarm compresses and slowly increase the temperature as changes in skin temperature are detected. Keep patient warm and calm, remove to a medical facility as soon as possible.

Work Practices

The reduction of adverse health effects from cold exposure is achieved by adopting the following work practices:

- Providing adequate insulating dry clothing to maintain core temperature above 98.6°F to workers if work is performed in air temperature below 40°F. Windchill cooling rates and the cooling power of air are critical factors. The higher the wind speed and the lower the temperature in the work area, the greater the insulation value of the protective clothing required.
- If the air temperature is 32°F or less, hands should be protected.
- If only light work is involved and if the clothing on the worker may become wet on the job site, the outer layer of the clothing in use should be impermeable to water. With more severe work under such conditions, the outer layer should be water repellent, and the outer wear should be changed as it becomes wettened. The outer garments should include

provisions for easy ventilation in order to prevent wetting of inner layer by sweat.

- If available clothing does not give adequate protection to prevent cold injury, work should be modified or suspended until adequate clothing is made available, or until weather conditions improve.
- Heated warming shelters should be available nearby (i.e., use of on-site trailer). The workers should be encouraged to use these at regular intervals, the frequency depending on the severity of the environmental exposure. When entering the heated shelter, the outer layer of clothing should be removed and the remainder of the clothing loosened to permit heat evaporation or a change of dry work clothing provided.
- Warm sweet drinks and soups should be provided at the work site to provide caloric intake and fluid volume. The intake of coffee should be limited because of the diuretic and circulatory effect.
- The weight and bulk of clothing should be included in estimating the required work performance and weights to be lifted by the worker.

As with heat stress:

- Implementing a buddy system in which workers are responsible for observing fellow workers for early signs and symptoms of cold stress.
- Unacclimatized employees should not be required to work full-time in cold until they become accustomed to the working conditions and required protective clothing.

Worker Information and Training

The workers should be instructed in safety and health procedures regarding cold work environments. The training program should include, as a minimum, instruction in:

- Proper re-warming procedures and appropriate first aid treatment
- Proper clothing practices
- Proper eating and drinking habits

- Recognition of impending frostbite
- Recognition of signs and symptoms of impending hypothermia or excessive cooling of the body even when shivering does not occur
- Safe work practices

5 ACCIDENT PREVENTION

A vital element of the Site and Health and Safety program is the implementation of an accident prevention program. An accident prevention program, as applicable to this site, includes the following measures:

- Communicate the contents of this HASP to all personnel who work on the site.
- Educate personnel as to the requirements of the HASP.
- Eliminate unsafe conditions. Efforts must be initiated to identify conditions that can contribute to an accident and to remove exposure to these conditions.
- Reduce unsafe acts. Personnel shall make conscious efforts to work safely. A high degree of safety awareness must be maintained so that safety factors involved in a task become an integral part of the task.
- Inspect frequently. Regular safety inspections of the work site, materials, and equipment by competent persons ensures early detection of unsafe conditions. Safety and health deficiencies shall be corrected as soon as possible, or site activities shall be suspended.

The following guidelines describe those specific measures personnel should take to minimize the occurrence of accidents on site, and exposure to hazardous chemicals:

- The discovery of any condition that would suggest the existence of a situation more hazardous than anticipated shall result in the evacuation of site personnel and re-evaluation of the hazard and the level of protection.
- Eating, drinking, chewing gum or tobacco, and smoking are prohibited while working in areas where the potential for chemical and/or explosive hazards may be present. These precautions apply to any area of the site where earthwork is being performed. Personnel must wash thoroughly before initiating any of the aforementioned activities.
- Site activities will not be conducted without adequate lighting, as detailed in OAR 437, Division 3, 1926.56.
- All field employees working with hazardous substances or required to wear a respirator shall be in a medical monitoring program.

6 PERSONAL PROTECTIVE EQUIPMENT

6.1 General

This section covers the applicable PPE requirements under the Personal Protective Equipment Standards OSHA 29 CFR 1910.132-139 which includes eye, face, head, foot, and respiratory protection.

6.1.1 Eye Protection

All employees engaged in or working in areas adjacent to eye-hazardous activities or operations shall wear appropriate eye protection

- Safety glasses are required for impact protection, and shall meet ANSI Standard Z87.1 requirements
- Chemical goggles are required for protection against chemical splash
- Face shields are required for face protection from chemical splash and are not a substitute for eye protection
- Full-face respirators can provide eye and face protection in lieu of safety glasses, goggles, or face shields

6.1.2 Foot Protection

No dedicated boots are required for this project site. Safety boots, meeting ANSI Standard Z41, worn on this site should be washed or brushed (wet) to remove mud or dust prior to being taken home.

6.1.3 Head Protection

Hard hats meeting ANSI Z89.1 shall be provided to protect workers from impact, penetration, falling objects, and/or limited electrical shock and burn, as appropriate for work site hazards.

6.1.4 Body Protection

Protective clothing, gloves, and other protective equipment shall be provided as appropriate for the hazards associated with the tasks being performed.

Contact with the soil presents the highest risk for construction workers on this project site. Workers on this site are required to wear Modified Level D PPE when involved with any earthwork activity. This PPE will involve the use of dust and soil resistant clothing in the form of disposable or washable coveralls. A breathable fabric that shuts out particles is the ideal. Coveralls and any other outer clothing shall not be worn or taken home for laundering. Gloves worn on site shall not be taken home.

The coverall types that would be suitable for this job include washable poly or cotton coveralls, and/or disposable general-purpose coveralls. If disposable coveralls are utilized, they shall be non-bright in color. White, yellow, orange, or blue coveralls should not be used. An example of a suitable type of general-purpose coverall are those produced by Kleenguard®, which are available in gray, brown, or tan.

The level of protection must correspond to the level of hazard known, or suspected, in the specific work area. PPE has been selected with specific considerations to the hazards associated with earthwork activities. The specific PPE to be used for each level of protection is located in Table 6-1. The initial level of protection for each activity is Level D. Action levels for upgrading and downgrading of PPE from initial level are discussed in Section 7.

Table 6-1
Levels of Protection

Level D	Coveralls (work uniform), steel-toed boots (ANSI Z41-1991), hard hat, hearing protection, and safety glasses.
Modified Level D	Level D plus a washable or disposable coverall, disposable gloves for handling soils or contaminated materials.
Level C	Washable or disposable coverall, steel-toed boots, hard hat, hearing protection, full- or half-faced air-purifying respirator equipped with organic vapor, acid gas combination cartridge with attached HEPA filter, and disposable gloves.

6.2 Respiratory Protection Program

If air monitoring results indicate that workers are being exposed to an inhalation hazard that is not being adequately controlled through the use of engineering and administrative controls, then a respiratory protection program meeting the requirements of 29 CFR 1910.134 shall be implemented.

No employee shall be assigned to a task that requires the use of a respirator unless it has been determined that he or she is physically able to perform the work while using the required respirator. The medical evaluation, as discussed in Section 1.4.3.2 of this plan, must be conducted prior to fit testing and work requiring the use of respiratory protection.

All workers who are required to wear respiratory protection shall receive respiratory protective equipment training, as noted in Section 1.4.2 of this plan, by qualified personnel, such as the PHSM.

The air-purifying respirator cartridges selected for use during all Level C work at this site are organic vapor/acid gas cartridges, which have the ability to protect against total organic vapor concentration up to 1,000 PPM. The cartridges also contain an attached High Efficiency Particulate (HEPA) filter which will protect against dust, mist and fumes having a TWA greater than 0.05 mg/m^3.

6.2.1 Respirator Fit Testing

All personnel who may be required to wear a negative-pressure, air-purifying respirator shall be fitted properly and tested. Employees shall have the opportunity to handle the respirators and wear them in normal air for a long familiarity period. Following the familiarity period, employees shall test the piece-to-face seal by use of the positive and negative pressure tests:

- Positive Pressure Test — with the exhaust port(s) blocked, the positive pressure of slight exhalation should remain consistent for several seconds.

- Negative Pressure Test — with the intake ports blocked, the negative pressure of slight inhalation should remain constant for several seconds.

Air-purifying respirators shall not be worn when conditions prevent a seal of the respirator to the wearer. Such conditions may be the growth of a beard, sideburns, a skull cap that projects under the face-piece, or temple pieces on glasses. No employee may wear a beard if it interferes with the fit of the respirator. Also, the absence of one or both dentures can seriously affect the fit of a face-piece, and should be worn at all times that respirators are being used. The worker's diligence in observing these factors shall be evaluated by periodic checks.

6.2.2 Cartridge Changes

All cartridges will be changed a minimum of twice daily. Changes will also be made when personnel begin to experience increased inhalation resistance or breakthrough of a chemical warning property.

6.2.3 Respirator Cleaning, Maintenance, and Inspection

All respirators used on site shall be cleaned and maintained in the following manner:

- Remove filters and cartridges
- Visually inspect face piece and parts, discard faulty items
- Remove all elastic headbands
- Remove exhalation cover and inhalation valves
- Wash, sanitize, and rinse face piece. Wash any parts that were removed separately
- Dry the mask. Wipe face pieces and valves.
- Disassemble and clean the exhalation valve
- Visually inspect face piece and all parts for deterioration, distortion, or other faults that might affect the performance of the respirator
- Replace any questionable or faulty parts

- Reassemble mask and visually inspect completed assembly
- Seal mask in plastic bag

7 AIR SAMPLING EXPOSURE MONITORING

Inhalation hazards are caused from the intake of vapors and contaminated dust. The monitoring that was done in 2000 during Phases 1 and 2 showed that no inhalation health hazard exists at the site. This conclusion assumes that the dust control measures recommended in this HASP are implemented.

Contractors may elect to conduct air monitoring while intrusive activities are taking place to detect the presence and relative level of those air contaminants which are inhalation hazards.

7.1 Exposure Monitoring

If site contractors elect to conduct air monitoring at the site, equipment to be used shall consist of industrial hygiene sampling equipment (i.e., pumps, filter cassettes), a respirable dust meter, and a O_2/LEL meter. Real-time air monitoring data shall be recorded on the Direct Reading Air Monitoring Form located in Appendix B.

7.1.1 Lead and PAH Exposure Monitoring

Initial air monitoring for lead and PAHs was performed during the Phases 1 and 2 earthwork in 2000 in order to provide further assurance that no inhalation health hazard is present at the site. Full shift (at least 7 hours) air monitoring was performed in areas of the site where the soil has been identified as containing elevated concentrations of lead (> 400 mg/kg) and/or total petroleum hydrocarbons (> 700 mg/kg). At least one sample was taken for each shift for each job classification in each work area. Personal air samples were collected in the breathing zone of selected workers engaged in tasks which involve extensive soil handling using a battery powered pump and appropriate collection media.

The results of the Phases 1 and 2 exposure monitoring showed that no inhalation health hazard is present onsite. This conclusion assumes that dust control measures are implemented as required in this HASP.

7.1.2 Respirable Dust Meter

The respirable dust meter measures the concentration of small-sized, airborne particulates. It has the ability to detect particles in the size range from 0.1 to 10 micrometers in diameter momentarily, as a TWA, or 8-hour equivalent shift averages. Concentrations are evaluated by two scales which read from 0.01 to 10 mg/m^3 and 0.1 to 100 mg/m^3, respectively. All respirable dust monitoring will be conducted in the breathing zone. Monitoring frequency and action level information is presented in Table 7-1.

7.1.3 O_2 / LEL Meter

Construction on this project will require excavation/trenching activities that could create a confined space situation. If personnel are required to enter these spaces and if hot work is to be performed, the atmosphere of the space must first be checked for oxygen content and explosive hazard. An O_2 / LEL Meter has the ability to determine the level of explosive vapors and oxygen-deficient environments. The combustible gas indicator scales read from 0 to 100 percent of the LEL. Oxygen meter scales normally read from 0 to 25 percent oxygen. All LEL monitoring shall be conducted in the work area directly above the emission source. All oxygen monitoring will be conducted in the breathing zone.

7.1.4 Health and Safety Action Levels

An action level is a point at which increased protection or cessation of activities is required due to the concentration of contaminants in the work area. All activities shall be initiated in Level D. The appropriate actions to be taken at designated action levels, is described in Table 7-1.

In addition to Table 7-1, an upgrade to Level C is required if:

- Any symptoms occur, as described in Section 4-1
- Requested by an individual performing the task
- Any irritation to eye, nose, throat, or skin occurs

Airborne concentrations that would require a work stoppage and evacuation (cease and desist) at the specific work area being monitored are in Table 7-1.

Table 7-1
Action Levels for Field Activities

Task	Monitoring Instrument	Monitoring Frequency1	Instrument Reading	Level of PPE
Any earthwork activities that are producing visible levels of airborne dust. Also any concrete cutting or grinding activities.	Dust Monitor (respirable fraction	Initially and every 15 minutes.	< 0.5 mg/m^3	Modified Level D
		Continuously	0.5 – 5 mg/m^3	Level C, initiate dust suppression activities
		NA	> 5 mg/m^3	Stop work if levels cannot be maintained < 5 mg/m^3
Any task that could potentially involve an explosive or oxygen deficient atmosphere. Also during any confined space entry activities.	O2 / LEL Meter	Continuously	O_2 < 19.5%	Evacuate, Level B protection[2] required for entry
		Continuously	LEL < 20%	Continue Work
		Continuously	LEL > 20%	Evacuate Area, ventilate or wait for levels to dissipate
Any work involving disturbing the soil in areas which contain soil concentrations in excess of 400 mg/kg of lead and/or 700 mg/kg of TPHs.	Sampling pumps & cassettes	Perform initial exposure monitoring in areas of elevated concentrations of lead and PAHs for a minimum of five working days in order to determine if work activities in these areas is posing an inhalation hazard to the workers.		

[1] Record Air Monitoring Data on the Direct Reading Air Monitoring Form located in Appendix B.
[2] If Level B protection is required, work will stop in the effected work area until an addendum to this plan can be implemented which would include additional training for employees and the use of air-supplied respirators.

8 SITE CONTROL AND WORK ZONES

The purpose of site control is to minimize potential contamination of workers and protect the public from hazards found on site. Site control is especially important in emergency situations.

For the purposes of this project it is not anticipated that specific work zones will be established with the exception of actions to ensure that contaminated soils are not tracked into the project offices or break room. This would involve staging boot washing and PPE disposal containers near the break area that would allow workers to remove their protective clothing and wash-up prior to entering the break room, or leaving the work site. However, if occupational exposure monitoring results show that an airborne hazard due to lead or PAHs exists, the following work zone scenario should be followed.

8.1 Work Zones

If occupational exposure monitoring indicates the potential for an airborne hazard, the following three-zone approach shall be used during site operations in order to contain the potential spread of contamination, and protect site workers. The three zones include the Exclusion Zone (EZ), the Contamination Reduction Zone (CRZ), and the Support Zone (SZ). Delineation of these three zones should be based on sampling and monitoring results, evaluation of potential routes, and the amount of contaminant dispersion in the event of a release. Movement of personnel and equipment among these zones should be minimized and restricted to necessary personnel and equipment.

8.1.1 The Exclusion Zone

The size of the EZ shall contain all excavation/construction activities. If necessary, the size of the EZ may be increased to allow more working area or to incorporate greater area for higher levels of protection due to contaminated dust emissions.

Prior to entering the EZ, the following conditions must be met: personnel shall be suited in the designated level of protection, a decontamination area shall be established, and all personnel leaving the area shall decontaminate and dispose of all disposable garments.

8.1.2 The Contamination Reduction Zone

The CRZ is the transition area between the contaminated area and the clean area. Decontamination is the main focus in the area. This area must also be designated for personnel involved in the work activities or decontamination. One pathway will be established for heavy equipment and one for personnel decontamination. This area will also serve as an access control point for personnel entering the Exclusion Zone.

8.1.3 The Support Zone

The SZ is an uncontaminated zone, which is the location of administrative and other support functions such as the break room, first aid, telephones, equipment supply, and emergency information. The SZ would have negligible potential for exposure to contaminants and is equivalent to that of background.

The support trailer and break room will be located upwind of site operations, if possible, and would be used as a potential evacuation point, if appropriate. No potentially contaminated personnel or materials are allowed in this zone.

8.2 Buddy System

8.2.1 Responsibilities

A buddy system shall be implemented when conducting activities on this site that involve the use of respiratory protection devices. This buddy shall be able to:

- Provide his or her partner with assistance
- Observe his or her partner for signs of chemical exposure or temperature stress

- Periodically check the integrity of his or her partner's protective clothing
- Notify emergency personnel if emergency help is needed

8.3 Sanitation

Eating and drinking increases the probability of hand-to-mouth transfer and ingestion of contaminated soil. There shall be no handling of food in the contaminated work areas of the project site. A modular break room equipped with running water will be provided to the workers as an eating area. Prior to eating, workers should wash their hands. A boot wash and brush shall be located at the entrance to the break room. In order to prevent contaminated soil track-in, workers shall clean their boots prior to entering the break room. The break room will be cleaned twice weekly, or when conditions warrant.

9 DECONTAMINATION

It is the responsibility of the SSO to ensure that all personnel and pieces of equipment coming off site are properly decontaminated according to the procedures outlined below. Documentation of decontamination must be made in the field log notebook that will become part of the permanent project file.

9.1 Contamination Prevention

One of the most important aspects of decontamination is the prevention of the spread of contamination. Good contamination prevention will minimize employee and public exposure. Proper decontamination procedures and the following procedures of contamination avoidance shall reduce the potential spread of contamination and include:

- Fasten all closures on suits, covering with tape if necessary
- Take particular care to protect any skin injuries
- Stay upwind of airborne contaminants, when possible

9.2 Personal Decontamination

All PPE will be disposed of and/or decontaminated at the conclusion of each work day as described below. Decontamination procedures will follow the concept of deconning the most contaminated PPE first.

All disposable equipment shall be doffed before meal breaks and at the conclusion of the work day and replaced with new equipment prior to commencing work.

If in use, respiratory equipment and other non-disposables will be fully decontaminated and then placed in a clean storage area. Respirator decontamination will be conducted daily. Taken from the drop area, the face pieces will be disassembled, the cartridges set aside, and all other parts placed in a cleansing solution. After an appropriate time in the solution, the parts will be removed and re-seated with tap water. Face pieces will be allowed to air dry before placing in sanitized bags. Personnel will inspect their respirator on a daily basis to ensure its

proper operation. In addition, respirator cartridges will be changed twice daily, as directed by the SSO.

9.2.1 Level D Decontamination

Level D decontamination procedures are as follows:

1. Step 1 — Remove all visible contamination and loose debris by washing with clean, de-ionized water.
2. Step 2 — Remove any gloves or soiled outer work clothing.
3. Step 3 — Wash and rinse hands and face.

9.2.2 Modified Level D Decontamination

Modified Level D decontamination procedures are as follows:

1. Step 1 — Remove all visible contamination and loose debris by washing with clean, de-ionized water.
2. Step 2 — Remove all outer clothing that came in contact with the contamination (i.e., tyvek or cotton coverall, and gloves) and either dispose of in disposable container or wash in detergent solution and rinse.
3. Step 3 — Wash and rinse hands and face.

9.2.3 Level C Decontamination

Level C decontamination procedures to be utilized as follows:

1. Step 1 — Remove all visible contamination and loose debris by washing with clean de-ionized water.
2. Step 2 — Remove all outer clothing that came in contact with the contamination (i.e., tyvek or cotton coveralls, and gloves) and either dispose of in disposable container or wash in detergent solution and rinse.
3. Step 3 —Remove respirator, sanitize prior to reuse.
4. Step 4 — Remove inner gloves (if any); dispose of in disposable container.
5. Step 5 — Wash and rinse hands and face.

9.3 Equipment Decontamination

9.3.1 Heavy Equipment

Heavy equipment used in earthwork activities (e.g., backhoe, bulldozer) will be decontaminated prior to leaving the project site, at a minimum, visible soils shall be removed. The following actions should be taken to minimize equipment contamination:

- When possible, vehicles should be parked off site or in a non-contaminated area of the site to minimize contamination and thus, avoid the need to decontaminate.
- If the vehicle is potentially contaminated, appropriate deconning procedures must be used before leaving the site. Deconning includes flushing visible dirt from the tires and high-pressure steam cleaning all heavy equipment that has visible contaminated soil.

10 EMERGENCY RESPONSE CONTINGENCY PROCEDURES

10.1 On-Site Emergencies

An Emergency Information Sheet, containing emergency phone numbers and directions to the closest hospital, is located in Appendix A. A copy of this sheet shall be posted in the support area next to the telephone.

If an emergency necessitating a response occurs on site, the Site Supervisor shall be immediately alerted to the incident. This notification shall be an audible alarm, by use of an air horn, or by telephone. Personnel should reassemble at a pre-designated location to take a head count. The Site Supervisor shall direct personnel to either evacuate, or make other assignments as necessary to mitigate the emergency.

10.1.1 Emergency Procedures for Contaminated Personnel

Whenever possible, personnel should be decontaminated before administering first aid:

- Skin Contact — Remove contaminated clothing, wash immediately with water, use soap, if available.
- Inhalation — Remove victim from contaminated atmosphere. Remove any respiratory protection equipment. Initiate artificial respiration, if necessary. Transport to the hospital.
- Ingestion — Remove from contaminated atmosphere. Do not induce vomiting if victim is unconscious. Also, never induce vomiting when acids, alkalis, or petroleum products are suspected. Transport to the hospital, if necessary.

If site personnel have unexplainably collapsed while in a confined space, all personnel must evacuate the work area. Contact local emergency response personnel for rescue services. Rescues should only be attempted from outside the confined space using retrieval lines unless rescue personnel are equipped with supplied-air respiratory protection.

10.1.2 Emergency Equipment/First Aid

Basic first aid supplies (bandages, gauze, tape) will be located in the first aid box. Other on-site emergency equipment includes an emergency alarm (i.e., air horn), emergency eyewash, fire extinguisher, potable water and drinking cups, anti-bacterial soap, and telephone.

10.1.3 Fire Reporting Procedures

In the event that a fire occurs or is identified, the Site Supervisor shall be immediately contacted. If the fire cannot be controlled by trained personnel with the appropriate extinguishing equipment, the fire department shall be notified.

10.2 Site Evacuation

In the event of an emergency situation such as fire, explosion, significant release of toxic gases, etc., an air horn or other appropriate device will be sounded indicating the initiation of evacuation procedures. All personnel shall meet in the pre-designated site refuge location as discussed during the initial site meeting.

APPENDIX A

EMERGENCY CONTACT INFORMATION

EMERGENCY CONTACT INFORMATION

Key Project Personnel

Project Manager:	TBD
Project Health and Safety Manager:	TBD
Project Superintendent:	TBD
Site Safety Officer:	TBD

Oregon OSHA Central (Salem):	(503) 378-3272
National Response Center:	1-800-424-8802
EPA Environmental Response Team:	(201) 321-6600
Utility Notification Center:	(800) 332-2344

Emergency Services

Paramedic Service	911
Police Department	911
Fire Department	911

Hospital

Good Samaritan Hospital (Portland), 1015 NW 22nd Avenue, Portland, Oregon.

Emergency Room: (503) 229-7260

Information Number: (503) 229-7711

Directions to the Good Samaritan Hospital from Marshall Street:

From the site go west on Marshall Street 10 blocks to the hospital at the corner of NW 22nd and Marshall.

Refer to the Hospital Route Map Located on the following page.

MAPQUEST.

< Back

SEND TO

FROM:

Nw 12th Ave At Nw Lovejoy St
Portland, OR
US

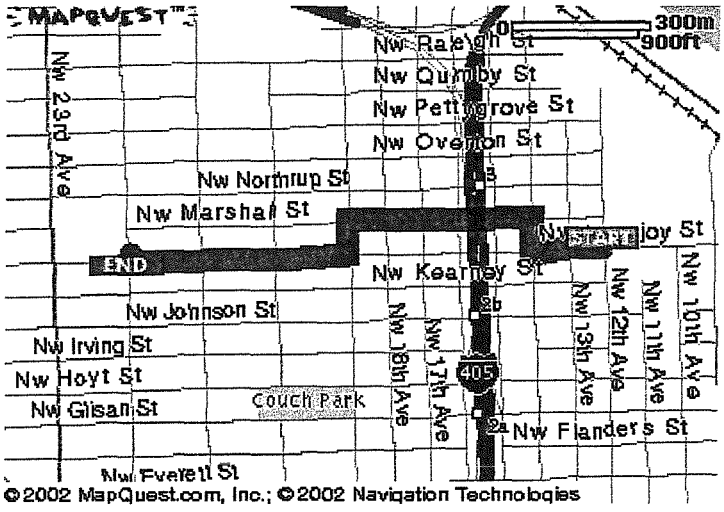
TO:

Good Samaritan Hospital & Med
1015 Nw 22nd Ave
Portland, OR
97210-3099 US

Total Distance: 0.73 miles

Total Estimated Time: 3 minutes

DIRECTIONS	DISTANCE
1: Start out going West on NW LOVEJOY ST towards NW 13TH AVE.	0.09 miles
2: Turn RIGHT onto NW 14TH AVE.	0.05 miles
3: Turn LEFT onto NW MARSHALL ST.	0.24 miles
4: Turn LEFT onto NW 19TH AVE.	0.05 miles
5: Turn RIGHT onto NW LOVEJOY ST.	0.29 miles
6: Turn RIGHT onto NW 22ND AVE.	0.01 miles
Total Estimated Time: **3 minutes**	**Total Distance:** **0.73 miles**

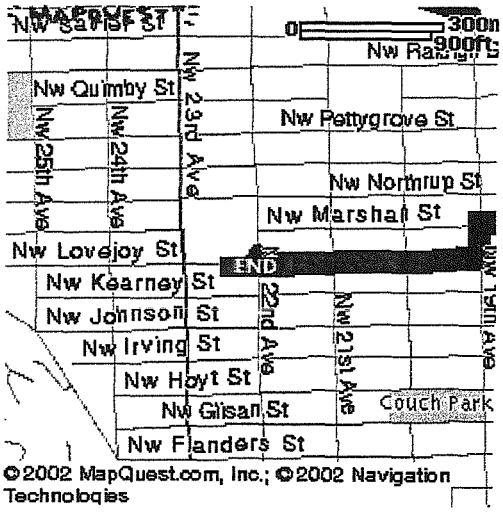


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NAVTECH ON BOARD

DESTINATION:

Good Samaritan Hospital & Med
1015 Nw 22nd Ave
Portland, OR
97210-3099 US



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APPENDIX B

FORMS

Site Health and Safety Plan Acknowledgment Form

I understand and agree to abide by the provisions as detailed in this Site Health and Safety Plan (HASP) for the activities described in the Project Work Plans. Failure to comply with these provisions may lead to disciplinary action, which may include dismissal from the work site, termination of employment or, for subcontractors, termination of the work contract.

Printed Name	Company	Signature	Date

HAZARD COMMUNICATION TRAINING RECORD FOR THE HOYT STREET YARDS DEVELOPMENT PROJECT

The undersigned personnel have received training concerning the types and concentrations of hazardous substances onsite as well as the health effects of exposure to these hazards. Instructions were given concerning the methods that will be used to minimize exposure to these substances, including work practices and the use of personal protective equipment (PPE).

Instructor's Name: _____ Date: _____

Instructor's Signature: _____

Printed Name	Signature	Company Name

RESPIRATORY PROTECTION TRAINING RECORD FOR THE HOYT STREET YARDS DEVELOPMENT PROJECT

The undersigned personnel have received training concerning the use of respiratory protection devices that included the following topics: Limitations, and capabilities of respirators; proper use; how to inspect, put on and remove the respirator; how to perform seal checks; maintenance and storage requirements; and how to recognize medical signs and symptoms that may limit or prevent the effective use of respirators.

Instructor's Name: _____ Date: _____

Instructor's Signature: _____

Printed Name	Signature	Company Name

TAILGATE SAFETY MEETING FORM

Project Name:_____ Date:_____ Time:_____

Safety Topics Presented

Chemical Hazards:_____

_____

_____

Physical Hazards:_____

_____

_____

Other Safety Topic(s):_____

_____

_____

_____

_____

_____

_____

Attendees

PRINTED NAME	SIGNATURE

Meeting conducted by:

_____ _____

DIRECT READING AIR MONITORING FORM

HOYT STREET YARDS PROJECT

DATE: _____ USER: _____

CALIBRATION: (date)_____ CALIBRATED BY: _____

		INSTRUMENT READINGS				
ACTIVITY	DATE/TIME	O_2	LEL	H_2S	Dust	COMMENTS

EXCAVATION AND TRENCHING CHECK-OFF LIST

Site Name: _____ **Date:** _____ **Time:** _____
Site Location: _____
Weather: _____

I. Pre-Dig Checks

1. Have underground utilities been located, marked, and cleared?	YES___	NO___
2. Have underground and/or overhead utilities been made (non-hazardous)	YES___	NO___
3. Have all surface encumbrances been removed?	YES___	NO___
4. Are employees protected from vehicular traffic?	YES___	NO___

II. Access and Egress

1. Are ladders being used in the trench?	YES___	NO___
2. Less than 25 feet lateral travel between ladders?	YES___	NO___
3. Do the ladders extend 3 feet above the excavation top?	YES___	NO___
4. Is the work area properly barricaded to limit access?	YES___	NO___

III. Protection From Hazards

1. Were atmospheric readings taken and recorded for oxygen (deficient and hazardous) atmospheres?	YES___	NO___
2. Is water accumulating in the excavation?	YES___	NO___
3. Are pumps being used to discharge water from the excavation?	YES___	NO___
4. Will the excavation undermine the stability of buildings?	YES___	NO___
5. Are hard hats being worn by all employees on site?	YES___	NO___
6. Are all rocks and spoils located 2 feet or more from the excavation edge?	YES___	NO___

IV. Protective Systems

1. Excavation/Trench Dimensions: L _____ W _____ H _____
2. What is the excavated soil type? A _____ B _____ C _____
3. What is the sloping ratio being used: ¾ 1__ 1:1 __ 1½:1__
4. Is shoring being used? YES___ NO___
5. Are trench boxes being used? YES___ NO___
   (If yes, are the trench box specs on site?)

Inspector Signature _____
(Competent Person)

CONFINED SPACE ENTRY PERMIT

Location and Description of Confined Space:

Purpose of Entry:

Permit is valid for one eight-hour shift:

From:
Date Time

To:
Date Time

Potential Hazard (check all identified or suspected hazards):

- ☐ Low oxygen concentration
- ☐ Flammable atmosphere
- ☐ Toxic atmosphere
- ☐ Atmospheric irritants
- ☐ Asbestos pipes/insulation
- ☐ Excessive heat
- ☐ Moisture
- ☐ Excessive noise
- ☐ Poor lighting/visibility
- ☐ High temp steam lines/leaks
- ☐ High pressure steam lines/leaks
- ☐ High temp condensate lines/leaks
- ☐ High surface and ambient temps
- ☐ Live electrical circuits/cables
- ☐ Electro-mechanical hazards
- ☐ Collapse of grating/support
- ☐ Collapse of space
- ☐ Falling off access ladder
- ☐ Falling through opening
- ☐ Overhead objects falling
- ☐ Unsecured ladder
- ☐ Slippery surfaces
- ☐ Liquid engulfment
- ☐ Standing sludge/debris
- ☐ Low overhead
- ☐ Entrapment
- ☐ Cramped space
- ☐ Standing water
- ☐ Hot liquids
- ☐ Other: _____

Appropriate Personal Protective/Safety Equipment (check box if required)

Safety glasses/goggles	☐	Rubber gloves	☐	SCBA	☐
Face shield	☐	Gloves, other: _____	☐	Ventilation fan	☐
Hard hat	☐	Tyvek suit	☐	Escape harness	☐
Hearing protection	☐	PVC/Splash suit	☐	Tripod escape unit/hoist	☐
Steel toe shoes	☐	Air-purifying respirator	☐	Other: _____	☐
Rubber boots	☐	Airline/5 minute escape	☐	Other: _____	☐

On-site security and Communication (check box if required)

Off-site ERT notified	☐	Intrinsically safe radio	☐	Barricade erected	☐
Attendant posted	☐	Area roped off	☐	Warning flags or cones	☐
Telephone available	☐	Warning signs posted	☐	Other:	☐

Hazard Isolation, Elimination, and Control Procedures (check box if required)

Pump out any standing water	☐	Verify intrinsically safe tools/equipment	☐
LOTO electric/mechanical deactivation	☐	Ventilate space with portable fan	☐
LOTO lines broken, capped, or blanked	☐	Inert and purge flammable atmosphere	☐
Verify adequate explosion-proof lighting	☐	Visually inspect space for physical hazards	☐

Hot Work: Circle

(requires prior approval of SSO) Is permit required? Yes/No Is permit attached? Circle Yes/No

CONFINED SPACE ENTRY PERMIT (PAGE 2)

Direct Reading Air Monitoring:

Test(s) Required	Instrument/Model & Serial Number	Permissible Entry Level	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:
% O_2		>19.5% and <23.5%					
% LEL		<10%					
ppm CO		<35 PPM					
ppm H_2S		<10 PPM					
ppm VOC		See HASP					
		Tester's Initials:					

Instruments **must** be calibrated daily, within a one 8-hour shift, according to manufacturer's requirements.

Authorized Entrants within Permit Space:

Entrant's Name	Time in	Time out	Authorized site attendants

Permit Authorization:

	Printed Name	Signature	Date
Attendant in charge of			
Supervisor authorizing			

A signature in this section certifies that the employee is familiar with the contents and requirements of the HASP and that the information provided on front and back of this form is complete and accurate.

Attendant's General Emergency Rescue Procedures:

1. Immediately call for help (or notify appropriate emergency rescue team by radio).
2. Clearly state NAME, LOCATION, PROBLEM, and request immediate EMERGENCY ACTION.
3. Maintain communication and DO NOT ENTER SPACE.
4. Display permit and advise rescue team of problem.
5. Assist rescue team as necessary. Again, DO NOT ENTER SPACE.

Remember, qualified emergency response personnel, including fire departments, police departments, ambulance services, emergency medical technicians, and hospitals have been provided in the health and safety plan.

APPENDIX C

CHEMICAL INVENTORY AND MATERIAL SAFETY DATA SHEETS

CHEMICAL INVENTORY LOG

HOYT STREET YARDS PROJECT

Date last revised: _____

Chemical/Product Name	Manufacturer		Storage Information		MSDS
	Address	Telephone No.	Quantity*	Location	Date Revised

*Maximum quantity stored (pounds, gallons or ounces) at this location.

APPENDIX B
QUALITY ASSURANCE PROJECT PLAN
SOIL RDRA WORKPLAN

HOYT STREET YARDS
PORTLAND, OREGON

Prepared for

Hoyt Street Properties, LLC

809 NW 11th Ave

Portland, Oregon 97209

Prepared by

Anchor Environmental, L.L.C.

6650 SW Redwood Lane, Suite 110

Portland, Oregon 97224

Quality Assurance Project Plan
Soil RDRA Workplan
Hoyt Street Yards
Portland, Oregon

The material and data in this report were prepared under the supervision and direction of the undersigned.

Anchor Environmental

John E. Edwards, RG, CEG

Date

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Table B-5. Documentation Requirements for Independent QA/QC Review of Organic Substances Data

1 INTRODUCTION

This quality assurance project plan (QAPP) includes information for soil characterization activities under the Soil Remedial Design Remedial Action (RDRA) Workplan at the Hoyt Street Yards, Portland, Oregon. Work implemented under the Workplan and sampling and analysis plan (SAP, Section 3 of RDRA Workplan) will be consistent with this version of the QAPP.

The purpose of the QAPP is to describe the procedures that will be used during the investigation process to satisfy the following items:

- Data collected are high-quality, representative, and verifiable
- Use of resources is cost-effective
- Data are usable by Hoyt Street Yards and the regulatory agency, to support objectives stated in the Soil RDRA Workplan

The document includes quality assurance (QA) procedures for field activities, sampling quality assurance/quality control (QA/QC) procedures, and data validation and data entry QA/QC for laboratory data. Functionally, the QAPP provides a consistent set of QA/QC procedures that will be used throughout the tasks identified in the Soil RDRA Workplan. The QAPP supports other documents (e.g., Workplan or SAP) by forming the basis for data acquisition and analysis. Through workplans or other documents, the scopes of work for the various activities will reference relevant parts of the QAPP for specifics. For instance, the RDRA Workplan will specify sampling soil at a specific boring site, and analyzing for a chemical, or suite of chemicals, by a certain analytical method. By referring to the QAPP, the reviewer will be able to determine which constituent(s) are analyzed by the analytical method specified in the Workplan, the quantitation limit goals, and the objectives for measurements. He or she will also be able to check for other related information, such as the type of bottle used for sample collection, preservative, etc. Routine tasks such as data validation and reporting are also described in the QAPP.

2 PROJECT ORGANIZATION AND RESPONSIBILITIES

The Anchor Environmental, L.L.C. (Anchor) project manager will be responsible for seeing that the procedures and guidelines described in the QAPP are followed. Project related communication between HSP and Anchor will be through the HSP project director or his designated staff. Communications from Anchor to third parties will be made only with the knowledge and consent of the project coordinators. HSP and Anchor will regularly review project status.

3 QA OBJECTIVES FOR MEASUREMENT

The overall QA objective is to collect an acceptable amount of data of known and usable quality. This objective will be achieved and documented using the procedures and criteria set forth in the QAPP. For each measurement made to obtain quantitative data, a set of quality objectives will be used to aid in collecting usable data.

Typically, quality objectives are categorized under precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters. Routine analytical procedures to be used for measuring precision and accuracy include use of replicate analyses, standard reference materials (SRMs), surrogate spikes, matrix spikes, and method blanks. Surrogate spikes, matrix spikes, replicate matrix spikes, and method blanks will be analyzed by the selected laboratory at the minimum frequencies specified below. Additional spikes and replicate analyses may be performed. For the purposes of laboratory analysis, a sample "batch" is considered to be 20 or fewer samples of a single matrix that are extracted or prepared together or are received in the same shipment.

- Surrogate spikes: every sample analyzed for organic compounds will be spiked with selected nontarget analytes and analyzed to evaluate laboratory performance on individual samples.
- Matrix spikes and matrix spike duplicates: one of every 20 samples will be spiked with selected target analytes and analyzed. Matrix spikes will be analyzed for inorganic analytes, and both matrix spikes and matrix spike duplicates will be analyzed for organic analytes. If fewer than 20 samples are analyzed, at least one sample per phase will be spiked.
- Method blank: a method blank will be analyzed at a frequency of 5 percent of the total number of samples (i.e., 1 of every 20 samples), 1 per batch of samples, or 1 per day, whichever is greater.

PARCC parameters can be applied to both field measurements and laboratory analytical measurements. Measured media can include soil, water, air, or other media. The

precision, accuracy, and completeness criteria to be used for analytical data are summarized in Table B-1. Method reporting limit (MRL) goals are listed in Table B-2. PARCC parameters used for field measurements are not generally well defined in the guidelines and literature. These parameters have been defined using the best available guidelines to establish field measurement QA objectives, and will be followed as closely as possible.

3.1 Precision

Precision is the degree of agreement between replicate measurements of the same source or sample. Replicate measurements can be made on the same sample or on two samples from the same source. Precision is generally assessed by duplicate measurements of a subset of samples (laboratory or field duplicate samples). The chemical analysis methods define the proportion of the samples being analyzed for which precision must be assessed. This proportion is defined in the laboratory quality assurance manual (QAM). The precision of physical measurements, such as water level measurements, and of field measurements, such as pH and specific conductance, will be based on the general body of data for the instruments and methods, but will not be calculated specifically.

When detected concentrations in either a sample or a duplicate are less than five times the MRL or method detection limit (MDL), data quality objectives for precision suggest that sample and duplicate results should be within plus or minus the MRL of each other. When detected concentrations in the sample and duplicate are both greater than five times the MRL, data quality objectives for precision suggest that the relative percent differences (RPD) between the results should be less than or equal to 20 percent.

The RPD can be calculated as follows:

$$RPD = \frac{(c_1 - c_2) \times 100}{c}$$

where

c_1 = concentration for replicate 1.

c_2 = concentration for replicate 2.

c = mean concentration.

Acceptable precision limits are based on historical databases, as defined by the USEPA. Laboratory duplicate measurements will be obtained for each set of samples submitted, and will be tested for inorganic analytes only. Field duplicates will be evaluated similarly.

3.2 Accuracy

Accuracy measures the level of bias exhibited by an analytical method or measurement. To measure accuracy, a substance with a known value is analyzed or measured, and the result is compared with the known value.

The accuracy of laboratory analysis is assessed by measuring standard reference materials (instrument calibration) and spiked samples (surrogate recoveries and matrix spikes). Standard reference materials are used to calibrate laboratory instruments. The analytical method specifies the frequency and accuracy required for a spiked sample analysis.

Spike recovery is determined by splitting a sample into two portions, spiking one portion with a known quantity of a constituent of interest, and analyzing both portions. Spike recovery is expressed as percent recovery:

$$\text{Percent recovery} = \frac{\Delta c \times 100}{\Delta c_s}$$

where

Δc = measured concentration increase.

Δc_s = known concentration increase.

Acceptable matrix spike recovery limits are based on historical data sets, as defined by the USEPA. Acceptable surrogate recoveries for organic analyses are based on limits calculated by the laboratory, as described in the analytical method.

The accuracy of field measurements is inherent in the instrument and procedure used. Instrumentation and procedures are described in Appendix A and will meet or exceed current industry standards.

3.3 Representativeness

Representativeness is the degree to which data accurately and precisely represent a characteristic of the population, the natural variation at a sampling point, or an environmental condition. There is no standard method or formula to evaluate representativeness. Specific sampling and analysis plans are designed to allow collection of representative samples. Representativeness is achieved by selecting sampling locations that are appropriate for the objective of the specific sampling task, and by collecting an adequate number of samples. The representativeness of the data will be evaluated and used to identify data gaps that can be addressed during or following completion of the specific investigation.

3.4 Completeness

Completeness is commonly expressed as a percentage of measurements that are valid and usable relative to the total number of related measurements. Completeness criteria between 80 to 85 percent are identified in the guidance (USEPA, 1987) and will be used to determine the adequacy of the results. The percent completeness is defined as the number of samples analyzed that meet the data quality goals, divided by the total number of samples analyzed and multiplied by 100.

4 SAMPLING PROCEDURES

This section describes how samples will be documented, handled, preserved, and shipped, and also discusses equipment decontamination. Any alterations to the sampling procedures described below will be described on the soil and water field sampling data sheets (FSDSs) and in field sampling memorandum written to the project file.

For each phase of work, specific information as to how many samples will be collected and measured, the frequency of sampling, the target compounds to be analyzed, and analytical methods will be specified in a workplan or SAP. The current SAP (Section 3 of the RDRA Workplan) describes standard operating procedures for sampling the media of interest for a particular phase of work. If deviations from the SAP are necessary, they will be discussed ahead of time in the appropriate workplan, or in the case of a field modification, will be documented in field notes. Reference to the QAPP will provide field personnel and data reviewers with quantitation goals or other relevant parameters needed for data evaluation.

4.1 Sample Preservation and Handling

Sample containers and methods of preservation for constituents to be tested are listed in the laboratory QAM. A summary is provided in Table B-3. Sample bottles supplied by the laboratory for each sampling event will include the appropriate preservatives. Samples will be preserved and shipped in chilled shipping containers, as required by the analytical method preservation standards. The laboratory will retain documentation on bottle preparation and handling. Bottle storage, preservation, and handling in the field will be documented on FSDSs (Appendix A).

4.2 Sampling Documentation

The documentation to be followed during soil or water sampling is described below. The following information will be recorded on the soil FSDS for each soil or sediment sample collected:

- Facility name
- Sample number
- Sampler's name
- Sample location (well, boring, or sample number)
- Sampling depth
- Sampling date and time
- Sampling method
- Composite or discrete sample
- Sample container size and material
- Sample preservative
- Climatic or other noteworthy conditions (e.g., nearby activities)
- Problems encountered with equipment or methods
- Decontamination methods
- Number of sample bottles filled
- Laboratory used

The sampler will record the following information on the FSDS for each water sample collected:

- Facility name
- Sampler's name
- Blind sample number (blind sample numbers are only necessary for groundwater or surface water samples from established monitoring stations)
- Well/boring/surface site number and location
- Well/boring condition, well depth, depth to water, and date and time of measurement
- Well/boring purging method, volume, depth, date, and time
- Sampling method, depth, date, and time
- Type of sample container and preservative
- Climatic or other noteworthy conditions (e.g., nearby activities)
- Problems encountered with equipment or methods
- Decontamination methods

- Field measurements (pH, specific conductance, temperature, etc.)
- Number of sample bottles filled
- Laboratory used

Each sample label will contain the following information:

- Blind sample number (not necessary for soil samples)
- Sampler identification (person's initials)
- Date and time of sampling
- Place of collection

Sample numbers and actual sample locations will be recorded on the FSDSs. The FSDSs will not be sent to the laboratory.

4.3 Decontamination Procedures

All downhole drilling and sampling equipment will be decontaminated between boreholes. The purpose is to prevent cross contamination between borings and between samples. This applies to any equipment that comes in contact with the soil to be sampled. Push probe soil samplers, such as split spoons or split tubes, should be cleaned between boreholes and after every sample interval. Soil adhering to the drilling equipment should be removed with a brush or shovel. The equipment should then be washed with a non-phosphate detergent, rinsed with tap water, and final rinsed with distilled or deionized water. If residual free petroleum product (i.e. oil) is on the equipment, additional wash and rinse steps may be required.

If groundwater sampling is required during earthwork activities, the sampler should follow the procedures outlined in the Groundwater RDRA Workplan.

All steel trowels, shovel, and other hand operated soil sampling equipment will be decontaminated between sample sites, using the same washing sequence. Soil adhering to samplers will be removed with a brush.

4.4 Field QA Sample Collection

Field QA soil samples are not required for the pre-excavation soil sampling or the soil grab sampling procedures. Split soil samples are required to be taken from the pre-excavation composite borehole samples. However, these split samples are not required for QA purposes, but are to be held as a contingency for further testing, as a possible check against the soil quality data obtained from the primary composite sample.

Field QA samples would only be required if groundwater sampling from wells were done as part of the earthwork activities. No groundwater sampling from wells is currently planned as part of the earthwork activities. If groundwater sampling from wells occurs as part of the earthwork activities, the sampling and QA procedures described in the Groundwater RDRA Workplan should be followed.

Groundwater may have to be removed from excavations during earthwork activities. The groundwater would be temporarily stored onsite in an above ground tank until it is removed for offsite treatment and disposal. The groundwater in the storage tank would be sampled prior to offsite treatment and disposal. Field QA samples of the stored groundwater are not required, since the tank could be resampled if the testing results were questioned prior to treatment and disposal.

4.5 Sample Custody

Sample custody will be tracked from point of origin through final analysis and disposal using chain-of-custody (COC) forms (Appendix A), which will be filled out with the appropriate sample/analytical information as soon as possible after samples are collected. The following items will be recorded on the COC form:

- Project name
- Project number
- Anchor project manager
- Sampler's name
- Sample number, date and time collected, media, number of bottles submitted

- Requested analyses for each sample
- Shipment method
- Type of data package required (Tier II½ in most cases)
- Turnaround requirements
- Signature, printed name, organization name, date, and time of transfer of all persons having custody of samples
- Additional instructions or considerations that would affect analysis (nonaqueous layers, archiving, etc.)

Persons in possession of the samples will be required to sign and date the COC form whenever samples are transferred between individuals or organizations. The laboratory will implement its in-house custody procedures, which begin when custody transfers to laboratory personnel.

If samples are shipped via air or ground transportation (by a third party), the following custody procedures will be followed. Samples will be packed in shipping containers, and a custody seal will be placed on the container to reduce the potential for tampering. Proper shipping insurance will be requested and the top two copies of the COC form will accompany the samples. The person shipping the samples will retain the third copy of the COC and shipping forms to allow sample tracking. The COC form will accompany the samples from point of origin in the field to the laboratory.

5 FIELD CALIBRATION PROCEDURES

5.1 Field Instrumentation

Several field instruments will be used during the investigations. Field instrument calibration will follow the manufacturers' guidelines, and any deviation from the established guidelines will be documented. All calibration activities will be recorded on field calibration logs that accompany each day of a sampling event. Generally, field instruments will be calibrated daily before work begins. Field personnel may decide to calibrate more than once daily if inconsistent or unusual readings occur, or if conditions warrant more frequent calibration.

5.1.1 Calibration Procedures and Frequency

Calibration procedures, calibration frequency, and standards for measurement variables and systems will be according to method requirements. To assure that field instruments are properly calibrated and remain operable, the following procedures will be used, at a minimum:

- Operation, maintenance, and calibration will be performed in accordance with the instrument manufacturers' specifications.
- All standards used to calibrate field instruments will meet the minimum requirements for source and purity recommended in the equipment operation manual.
- Acceptable criteria for calibration will be based on the limits set in the operations manual.
- All users of the equipment will be trained in the proper calibration and operation of the instrument.
- Operation and maintenance manuals for each instrument will be brought to the site.
- Field instruments will be inspected before they are taken to the site.
- If used, PID and FID field instruments will be calibrated at the start and end of each work period. Meters will be recalibrated, as necessary, during the work period.

- Specific conductivity and pH meters will be calibrated at the start of each work period. Meters will be recalibrated, as necessary, during the work period.
- Calibration procedures (including time, standards used, and calibration results) will be recorded in a field log book or on FSDSs. Although not reviewed during routine QA/QC, the data will be available if problems are encountered.
-

5.1.2 *Preventive Maintenance*

A schedule of preventive maintenance activities will be followed to minimize downtime and ensure the accuracy of measurement systems and the availability of critical spare parts and backup systems and equipment. The preventive maintenance approach for specific pieces of equipment used in sampling, monitoring, and documentation will follow the manufacturers' specifications and good field practices. Maintenance will be documented in the field logbook.

6 ANALYTICAL PROCEDURES

The testing laboratory's QA/QC plans and standard operation procedures provide data quality procedures according to the protocols for the analytical method and cleanup steps. The data quality procedures are at a level sufficient to meet the sampling program's data quality objectives. Anchor will determine that any laboratory used to analyze samples from the site has a QA program, facilities, equipment, and trained staff that meet the data quality objectives specified in the Soil RDRA Workplan and the project QAPP. The laboratory will perform, document, and report laboratory procedures as described in their QAM. Laboratory QA/QC plans and standard operating procedures will be provided on request.

The analytical methods and references for analyses to be used during project implementation are summarized in Table B-2. Procedural details not specified in this QAPP should follow the protocols described in SW-846 (USEPA, 1986a).

6.1 Internal QA/QC Checks

The laboratory will demonstrate its ability to produce acceptable results using the recommended methods, or their equivalent. The following criteria will be used internally by the laboratory to evaluate the data (as appropriate for inorganic or organic chemical analyses):

- Performance on method tests
  - Matrix spike
  - Gas chromatograph (tailing factors)
  - Blanks
  - Precision of calibration and samples
- Percentage recovery of surrogates (organics)
- Adequacy of detection limits
- Precision of replicate sample analyses
- Comparison of percentage of missing or undetected substances between replicate samples

Laboratory records of standard calibration curves and all other pertinent data will be held for possible inspection at the laboratory, and will be made available on request.

6.2 Preventive Maintenance

Preventive maintenance of equipment is essential if project resources are to be used cost-effectively. Preventive maintenance consists of a schedule of maintenance activities to minimize downtime and ensure the accuracy of measurement systems and the availability of critical spare parts and backup systems and equipment. The preventive maintenance approach for specific pieces of equipment will follow the manufacturers' specifications and good laboratory practices. Maintenance will be documented in the instrument logbooks.

6.3 Laboratory Instrumentation

Specific laboratory instrument calibration procedures, frequency of calibration, and preparation of calibration standards will be according to the method requirements as developed by the USEPA, following procedures recorded in SW-846 (USEPA, 1986a). Copies of laboratory QA/QC plans and standard operating procedures are available on request.

6.4 Data Deliverables

Laboratory data deliverables required for inorganic compound analyses are listed in Table B-4. Data deliverables for organic analyses are listed in Table B-5. Data will be recorded on standard data sheets or in an electronic data deliverable (EDD) format for importing into the site database.

7 DATA REDUCTION, VALIDATION, AND REPORTING

The laboratory performing sample analyses will be required to submit analytical data supported by sufficient QA information to permit independent and conclusive determination of data quality. Data quality will be determined using the data validation procedures described here. The results of the data validation will be used to determine if the data quality objectives are met for the Hoyt Street Yards project.

7.1 Reduction

Following validation and assignment of qualifiers, the analytical data will be tabulated in a spreadsheet or database. The tabulation of analytical and field data, with the appropriate data qualifiers, will be stored on computer disk for archival purposes. Data may be further reduced and managed using the following computer software applications:

- Excel (spreadsheet)
- Access (database)
- Word (word processing)
- Surfer (geostatistical contouring)
- Statistical applications using appropriate methods

As an extension of the data evaluation program, data will be reduced to summarize particular data sets. In addition, statistical techniques may be applied to test results. These techniques will help determine the representativeness, comparability, precision, and completeness of the data sets. Reduced data sets will be used in reporting the overall accuracy of the assessment.

7.2 Validation

All laboratory data will be validated. Anchor will examine the data for precision, completeness, accuracy, and adherence to standard operating procedures. The laboratory will perform internal QC checks and Anchor will validate laboratory analytical data, as described in the following sections. QC checks will be performed on laboratory information using the sample log-in reports faxed to Anchor after

samples are entered into the laboratory information management system. The reports will be checked early in the process, which will allow QC checks to begin before sample holding times have expired or before errors are incorporated in the laboratory reports.

7.2.1 Validation Procedures

Laboratory analytical data will be reported in a Tier II½ format to facilitate data validation. The items reported by the laboratory in a Tier II½ package include those listed in Tables B-4 and B-5. Anchor will review data and assign data qualifiers to sample results, following portions of the USEPA procedures for inorganic (USEPA, 1994a) and organic data (USEPA, 1994b). QC criteria not defined in the guidelines for evaluating analytical data are adopted, where appropriate, from the analytical method.

For inorganic and organic analyses, the following information will be reviewed during data validation:

- Sampling locations and blind sample numbers
- Sampling dates
- Requested analysis
- Laboratory service request number(s)
- COC documentation
- Sample preservation
- Holding times
- Method blanks
- Surrogate recoveries (organic analyses only)
- Matrix spike results (inorganics analyses only)
- Matrix spikes/duplicate matrix spike (MS/DMS) analyses (organic analyses only)
- Laboratory duplicates (inorganic analyses only)
- Field duplicates (if submitted)
- Laboratory control samples (organic analyses only)

- MRLs above requested levels
- Any additional comments or difficulties reported by the laboratory
- Overall assessment

The results of the data validation review will be summarized for each batch of samples. Data qualifiers will be assigned to sample results on the basis of USEPA guidelines. The data validation reports will summarize the precision and accuracy for the samples. The quality of the analytical data, as defined by precision and accuracy, will be assessed and compared to data quality objectives for the Hoyt Street Yards project.

The laboratories will routinely archive raw laboratory data, including initial and continuing calibration data, chromatograms, quantitation reports, blank sheets, and sampling logs, and will provide these data in addition to the deliverables listed above, if requested.

7.3 Reporting

After completion of data collection, validation, and reduction, the data will be used in reports. Copies of the reports will be kept in the main project file, submitted to HSP for review, then submitted to the regulatory agency as part of reporting requirements specified in the Workplan. The original copy of any document that Anchor produces will remain in the main project file.

8 INTERNAL QUALITY CONTROL

8.1 Laboratory Checks

The laboratory will document the completion and evaluation of internal QC checks and any corrective actions or reanalyses that result.

8.2 Field Checks

Internal QC checks will be performed for field activities. Checks will consist of documentation review of field notes and field activity memoranda to determine whether the specified measurements, calibrations, and procedures are being followed. The need for and content of corrective action will be determined on an ongoing basis, in consultation with the project manager.

8.3 Data Reduction Checks

Data reduction QC checks will be performed on all entered, calculated, and graphic data produced by The IT Group. Data entry will be compared with data generated during field activities and recorded in notebooks or on field data forms. Analytical data entry will be checked against laboratory reports.

9 PERFORMANCE SYSTEM AUDITS

Proper communication between field staff, project management, and the laboratories will be maintained so that consistent and appropriate methods and techniques are used throughout the project. The laboratories will audit internal performance and systems under their in-house QA/QC guidelines. Such audits will be made available for review on request. Any irregularities found in the performance and systems audits will be dealt with appropriately, as soon as practical.

10 PREVENTIVE MAINTENANCE

Equipment used in the field will be periodically checked to detect any abnormalities. Steps will be taken to repair or replace any piece of equipment that appears unreliable. Repairs will be made according to the manufacturers' guidelines, or by qualified repair technicians. Equipment will also be periodically serviced, according to the manufacturers' recommendations.

Preventive maintenance of analytical equipment is outlined in the laboratory QAM.

11 DATA ASSESSMENT PROCEDURES

Procedures to assess data precision, accuracy, and completeness will be completed routinely, through data validation reports. Precision and accuracy will be based on laboratory documentation. Completeness will be based on the usability of the data collected, relative to the data needs of an investigative task or the amount of data scheduled for collection. Completeness will be quantified when appropriate, but will be qualitatively evaluated with respect to the representativeness of the data when detection, or lack thereof, is the objective. The criteria to be used for analytical data are summarized in Tables B-1 and B-2.

The QAM outlines the precision and accuracy limits for laboratory analytical methods and parameters. The laboratory is responsible for assuring that these precision limits are consistently met or exceeded.

12 CORRECTIVE ACTION

The need for corrective action will be evaluated on an ongoing basis, depending on the results of internal and laboratory QC checks.

Corrective action measures will generally result from either instrument failure or nonconformance or noncompliance with QA requirements by laboratories or field personnel. The Anchor project manager will be notified as soon as practical if a field or laboratory QA problem arises that could jeopardize the use of collected data. All project personnel are responsible for reporting lapses in QA procedures.

During field operation and sampling procedures, field personnel will be responsible for reporting any changes to specified sampling procedures. A description of any such change will be entered in the daily field logbook, or on FSDSs.

Corrective action will be taken by the Anchor project manager when analytical data are found to be outside the predetermined limits of acceptability. Corrective actions could include a procedural change, additional performance and system audits, meeting with laboratory personnel, resampling, or in extreme cases, obtaining a new subcontractor. The regulatory agencies will be notified if a substantive deviation from the Workplan results in a corrective action.

All fixed laboratories will be required to meet USEPA data validation guidelines and to provide full documentation and annotation of data submitted. Raw data will be made available on request for data-proofing procedures.

After review and evaluation of each analytical data package, data validation problems and corrective actions will be listed and summarized, with a determination of their impact on the data. It is impractical to specify specific responses in this plan, since data errors are indeterminate. If data do not conform to the guidelines and cannot be validated, they will be either annotated or discarded before the overall project is evaluated.

13 QA REPORTS TO MANAGEMENT

Reporting on the quality of data gathering will include regularly transmitting field and laboratory documentation to the project manager, and summarizing the information. These reports will consist of field activity memoranda and reports, and data validation reports, and will provide a means for management to evaluate accomplishment of the established QA/QC objectives. The reports will be maintained in the project files and will include results of performance and system audits; periodic assessment of measurement data accuracy, precision, and completeness; significant QA/QC problems and recommended solutions; and resolutions of previously identified problems.

14 REFERENCES

USEPA. 1980. Interim guidelines and specifications for preparing quality assurance project plans. U.S. Environmental Protection Agency, Office of Research and Development, Office of Monitoring Systems and Quality Assurance. QAMS-005/80.

USEPA. 1983. Methods for chemical analysis of water and wastes. U.S. Environmental Protection Agency. EPA-600/4-79-020. March.

USEPA. 1986a. Test methods for evaluating solid waste. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. SW-846. September (update 1, July 1992; update 2a, August 1993; update 2, September 1994; update 2b, January 1995).

USEPA. 1986b. RCRA ground-water monitoring technical enforcement guidance document (TEGD). U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Office of Waste Programs Enforcement.

USEPA. 1987. Data quality objectives for remedial response activities, development process. U.S. Environmental Protection Agency.

USEPA. 1988. Guidance for conducting remedial investigations and feasibility studies under CERCLA. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response.

USEPA. 1989. Interim final RCRA facility investigation (RI) guidance. Vols. 1-4. U.S. Environmental Protection Agency, Office of Solid Waste, Waste Management Division.

USEPA. 1990. Preparing perfect project plans: a pocket guide for the preparation of quality assurance project plans. U.S. Environmental Protection Agency, Risk Reduction Engineering Laboratory. Cincinnati, Ohio.

USEPA. 1994a. USEPA contract laboratory program national functional guidelines for inorganics data review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. EPA 540/R-94/013. February.

USEPA. 1994b. USEPA contract laboratory program national functional guidelines for organics data review. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. EPA 540/R-94/012. February.

TABLES

Table B-1
Objectives for Measurement
Quality Assurance Project Plan
Hoyt Street Yards

Analysis	Matrix	Units	Limit of Detection[a]	Accuracy (%REC)	Precision (RPD)	Completeness	Method[b]	Reference[c]	Maximum Holding Time
PAHs									
Method 8270M-SIM	Water	µg/L	0.002 – 0.007	—[d]	30	85%	Extraction - GC/MS-SIM	SW-846	7 days until extraction, 40 days after extraction
Method 8270M-SIM	Soils	mg/kg[e]	0.3 - 2	—[d]	60	85%	Extraction - GC/MS-SIM	SW-846	14 days until extraction, 40 days after extraction
Lead									
Method 6010/6020	Water	µg/L	0.02-0.5	80-120	20	85%	Digestion – ICP	SW-846	6 months
Method 6010/6020	Soils	mg/kg[e]	10	75-125	40	85%	Digestion – ICP	SW-846	6 months
TPH									
Method NWTPH-Dx	Water	mg/L	0.25-0.50	50-150	50	85%	GC-FID	SW-846[f]	14 days
Method NWTPH-Dx	Soils	mg/kg[e]	25-100	50-150	50	85%	GC-FID	SW-846[f]	14 days

NOTE:

[a] Detection limits will be elevated if sample requires dilution or matrix interferences are a problem.

[b] GC = gas chromatograph; MS = mass spectrometer; ICP = inductively coupled plasma (ICPAES = ICP atomic emission spectrometry); SIM = selective ion monitoring; FID = flame ionization detector.

[c] SW-846 (USEPA, 1986a) provides routine analyses for these substances (updates: I [1992], II[1994]).

[d] QA/QC limits for accuracy (%REC) vary for each organic analyte and are specified in SW-846 for each analytical method (i.e., 8260B, 8270B).

[e] Dry weight basis.

[f] NWTPH-Dx adapts Oregon's TPH, Washington's WTPH, and EPA SW-846 Methods 3510, 3540/3550, and 8000.

Table B-2
Method Reporting Limit Goals

Analysis (Method)	Quantitation Limits[a,b]	
	Soil/Sediment	Water
Analyte	(units)	(units)
PAHs (Method 8270M/GC/MS-SIM)	(µg/kg)	(µg/L)
Acenaphthene	5	0.02
Acenaphthylene	5	0.02
Anthracene	5	0.02
Benz(a)anthracene	5	0.02
Benzo(a)pyrene	5	0.02
Benzo(b)fluoranthene	5	0.02
Benzo(k)fluoranthene	5	0.02
Benzo(g,h,i)perylene	5	0.02
Chrysene	5	0.02
Dibenzo(a,h)anthracene	5	0.02
Dibenzofuran	5	0.02
Fluoranthene	5	0.02
Fluorene	5	0.02
Indeno(1,2,3-cd)pyrene	5	0.02
2-Methylnaphthalene	5	0.02
Napthalene	5	0.02
Phenanthrene	5	0.02
Pyrene	5	0.02
Total Petroleum Hydrocarbons (Method NWTPH-Dx)	(mg/kg)	(mg/L)
TPH-diesel range hydrocarbons	25	0.25
TPH-heavy oil-range hydrocarbons	100	0.5
Metals (Method 6010/6020 ICP-MS)	(mg/kg)	(µg/L)
Lead	0.05	0.02

NOTE:

[a] Quantitation limits derived from "Test Methods for Evaluating Solid Waste," SW-846 (USEPA, 1986a).

[b] Specific quantitation limits are matrix-dependent. Quantitation limits listed are provided for guidance and may not always be achievable.

Table B-3
Sample Analyses, Containers, Preservation, and Holding Times
Quality Assurance Project Plan
Hoyt Street Yards

Matrix	Parameter	Container Type	Preservation and Handling	HoldingTime
Soil	PAHs	8-oz glass jar; PTFE-lined lids	Cool to 4°C	14 days sampling to extraction; 40 days extraction to analysis
	TPH	8-oz glass jar; PTFE-lined lids	Cool to 4°C	14 days
	Total Lead	8-oz glass	Cool to 4°C	6 months
Water	VOCs	Three 40 ml glass vials; PTFE-lined silicon septum caps	Fill, leaving no air space; store in dark; cool to 4°C, HCl to pH<2	14 days
	PAHs	1-liter amber glass; PTFE-lined cap	Cool to 4°C	7 days sampling to extraction; 40 days extraction to analysis
	TPH	1-liter amber glass; PTFE-lined cap	Cool to 4°C, HC1 to pH<2	7 days
	Dissolved or Total Metals	500 ml poly	Field filter (if dissolved); HNO_3 to pH<2; cool to 4°C	6 months

[a] Polytetrafluoroethylene (Teflon).

Table B-4
Documentation Requirements for Independent QA/QC Review
of Inorganic Substances Data
Quality Assurance Project Plan
Hoyt Street Yards

Analysis of the requested inorganic analytes should be reported as follows:

- Dates samples were collected, received by the laboratory, and analyzed.
- On each laboratory sample data sheet: method of detection (e.g., AA, ICP).
- On each laboratory sample data sheet: a tabulation of method detection limits (MDLs) or method reporting limits (MRLs), or a master sheet of MDLs or MRLs with detection limit multiplication factors (due to dilutions or dry weights) specified.
- Constituent concentrations reported in µg/L or mg/kg for water and µg/kg or mg/kg for soil (dry-weight basis) for each sample analyzed.
- Volumes analyzed and dilution factors, if any.
- Ancillary information, including percent moisture in soil samples.
- Method blank data associated with each sample.
- Results for matrix spike analyses, concentrations added, and percent recovery from samples.
- Results of laboratory duplicate or laboratory control sample analyses for each constituent, as applicable to the method.
- A statement in the cover letter describing how standard calibration curves were generated and applied to the samples for quantitation (and access to laboratory records of standard calibration curves and all other pertinent data for possible inspection), if this varies from the method specified in SW-846 (USEPA, 1986a).
- A statement in the cover letter describing any significant problems in any aspect of sample analysis, deviation from prescribed QA/QC criteria, or other relevant information. A statement in the cover letter describing any changes or deviations from the required methods, the reason for the change(s), and a description of the deviations that were used for sample analysis.
- A copy of the chain-of-custody form for each sample reported.

Table B-5
Documentation Requirements for Independent
QA/QC Review of Organic Substances Data
Quality Assurance Project Plan
Hoyt Street Yards

Analytical laboratory reports for organic substances, including volatile organic compounds, semivolatile organic compounds, and chemically similar compounds, should be reported as follows:

- Dates samples were collected, received by the laboratory, and analyzed.
- On each laboratory sample data sheet: method of detection (e.g., GC, HPLC).
- On each laboratory sample data sheet: a tabulation of method detection limits (MDLs) or method reporting limits (MRLs), or a master sheet of MDLs or MRLs with detection limit multiplication factors (due to dilutions or dry weights) specified.
- Constituent concentrations reported in milligrams per liter (mg/L) or micrograms per liter (μg/L) for water, and milligrams per kilogram (mg/kg) or micrograms per kilogram (μg/kg) for soil (dry-weight basis) for each sample analyzed.
- Volumes analyzed and dilution factors, if any.
- Ancillary information, including percent moisture in soil samples.
- With each sample, complete data for associated method blanks.
- Surrogate recoveries for analyses reported as percent recoveries.
- Results for matrix spike and matrix spike duplicate analyses, concentrations added, percent recovery, and relative percent difference.
- A statement in the cover letter describing how standard calibration curves were generated and applied to the samples for quantitation (and access to laboratory records of standard calibration curves and all other pertinent data for possible inspection), if this varies from the method specified in SW-846 (USEPA, 1986a).
- A statement in the cover letter describing any significant problems in any aspect of sample analysis, deviation from prescribed QA/QC criteria, or other relevant information. A statement in the cover letter describing any changes or deviations from the required methods, the reason for the change(s), and a description of the deviations that were used for sample analysis.
- A copy of the chain-of-custody form for each sample analyzed.

APPENDIX A

FORMS

Chain of Custody Record & Laboratory Analysis Request

Page ___ of ___ Turnaround Requested: _____

Anchor Contact: _____

ANCHOR ENVIRONMENTAL, L.L.C.
1411 4th Avenue, Suite 1210
Seattle, WA 98101
Ph: (206) 287-9130 Fax: (206) 287-9131

Lab Contact:	Proj. Name:	Analyses Requested	Notes/ Comments:
Lab:	Proj. Number:		
Address:	Sampler:		
Phone:	Shipping Method:		
Fax:	AirBill:		

Sample ID	Sample Date	Sample Time	Sample Martix	# Con-tainers										

Relinquished: (Signature)	Relinquished: (Signature)	Relinquished: (Signature)	Special Instructions/Notes	
Printed Name:	Printed Name:	Printed Name:		
Company:	Company:	Company:		
Date/Time:	Date/Time:	Date/Time:		
Received By:	Received By:	Received By:		
Printed Name:	Printed Name:	Printed Name:		
Company:	Company:	Company:	# of Coolers:	Cooler Temp(s):
Date/Time:	Date/Time:	Date/Time:	COC Seals Intact?	Bottles Intact?

Boring Location:

Elevation: Datum:

Obs. Well Install. Yes No

Boring _____ Date _____ Sheet _____ of _____

Job _____ Job No. _____

Logged By _____ Weather _____

Drilled By _____

Drill Type/ Method _____

Sampling Method

Bottom of Boring _____ ATD Water Level Depth _____

SIZE (%)			PID or other	DEPTH		SAMPLE		SAMPLE RECOVERY	Penetration Resistance	DESCRIPTION: Den., moist., color, minor, MAJOR CONSTITUENT, NON-SOIL SUBSTANCES: Odor, staining, sheen, scrag, slag, etc.	REMARKS: Drill action, drill and sample procedures, water conditions, heave, etc.	SUMMARY LOG (Water & Date)
G	S	F										
Max.	Range	Att. Limits		From	To	Type	Number					
								0				
								1				
								2				
								3				
								4				
								5				
								6				
								7				
								8				
								9				
								0				
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								6				
								7				
								8				
								9				
								0				

ANCHOR ENVIRONMENTAL, L.L.C.

LICENSE AND DECLARATION OF RESTRICTIONS

This License and Declaration of Restrictions is made _____ __, 2002 between Hoyt Street Properties, L.L.C., an Oregon limited liability company ("Grantor"), the Oregon Department of Environmental Quality ("DEQ") and The Burlington Northern and Santa Fe Railway Company ("BNSF"), a Delaware corporation doing business in Oregon.

RECITALS

A. Grantor is the owner of certain real property (the "Property") located in Multnomah County, Oregon, which is more particularly described in Attachment A, attached hereto and by this reference made a part hereof.

B. Grantor intends to convey the Property to the City of Portland to be developed as a public park.

C. In conjunction with the development of the Property, Grantor prepared and DEQ approved the "Phases 1 and 2 Interim Remedial Action Plan." Grantor is required to conduct its development activities on the Property in accordance with that Interim Remedial Action Plan.

D. Environmental investigations at the Property have determined that hazardous substances, as defined in ORS Chapter 465, are present in soils and groundwater at the Property, including petroleum hydrocarbons, polynuclear aromatic hydrocarbons, and lead. To address these hazardous substances and to protect human health and the environment, the Director of the DEQ selected the remedial action for the Property in a Record of Decision for the Property dated December 15, 2000 ("ROD"). Grantor, BNSF and DEQ entered into a Consent Decree to implement the ROD in *State of Oregon v. The Burlington Northern and Santa Fe Railway Company and Hoyt Street Properties, L.L.C.*, Multnomah County Circuit Court Case No. 0202-01268 ("Consent Decree"). The Consent Decree requires that Grantor and its successors implement certain institutional controls and ensure ongoing access for DEQ and BNSF to any portions of the Property, except as otherwise provided herein. The Consent Decree also requires that Grantor record this License and Declaration of Restrictions in the real property records of Multnomah County prior to Grantor's sale or transfer of any right to or any interest in any part of the Property.

E. The provisions of this License and Declaration of Restrictions are intended to protect human health and the environment.

NOW THEREFORE, in consideration for the foregoing, which is incorporated by reference, and the promises and obligations herein, the parties agree as follows:

GENERAL DECLARATION

Grantor declares that the Property is and shall be conveyed, transferred, leased, encumbered, occupied, built upon, or otherwise used or improved, in whole or in part, subject to this License and Declaration of Restrictions. Each condition and restriction set forth in this License and Declaration of Restrictions and the licenses granted in Section 4 shall run with the land for all purposes, shall be binding upon all Owners as set forth in this License and Declaration of Restrictions, and shall inure to the benefit of the State of Oregon. Grantor further conveys to DEQ the perpetual right to enforce the conditions and restrictions set forth in this License and Declaration of Restrictions.

DEFINITIONS

"DEQ" means the Oregon Department of Environmental Quality, and its employees, agents, and authorized representatives acting on its behalf. "DEQ" also means any successor or assign of DEQ under the laws of Oregon, including but not limited to any entity or instrumentality of the State of Oregon authorized to perform any of the functions or to exercise any of the powers currently performed or exercised by DEQ.

"Owner" means any person or entity, including Grantor, who is the record owner of fee simple title or a vendee's interest of record to any portion of the Property, including any successor or holder of fee simple title or a vendee's interest of record to any portion of the Property, excluding any entity or person who holds such interest solely for the security for the payment of an obligation.

"BNSF" means The Burlington Northern and Santa Fe Railway Company, and its employees, agents and authorized representatives acting on its behalf. BNSF also means any successor or assign of BNSF.

RESTRICTIONS ON USE

No groundwater use. No use shall be made of groundwater at the Property, by extraction through wells or by other means, which use involves consumption or other beneficial use of the groundwater. This prohibition shall not apply to extraction of groundwater associated with temporary dewatering activities related to construction, development, or the installation of sewer or utilities at the Property.

Maintenance of cap. Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Prohibited uses. The following operations and uses are prohibited on the Property:

- Detached single-family residential development; and
- Agricultural use of any type at or below the ground level of the Property, except that landscaping consistent with Section 3.2 and the use of self-contained planters and pots shall be allowed.

LICENSE (RIGHT OF ENTRY).

During reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, DEQ shall have a non-exclusive license to enter upon and inspect any portion of the Property to determine whether the requirements of this License and Declaration of Restrictions have been or are being complied with.

DEQ shall provide the Owner with written notice of any violation of the requirements of this License and Declaration of Restrictions. Such notice shall describe what is necessary to correct the violation and shall specify the date by which the Owner must cure the violation; provided that if the violation is not capable of cure within the time period provided therefore by DEQ, the Owner shall not be deemed in default hereunder if the Owner commences to cure within the

requisite time period provided by DEQ and Owner thereafter diligently pursues the cure to completion.

If after DEQ has provided written notice pursuant to Section 4.2 the Owner fails to timely cure the violation, DEQ shall have the right, privilege, and license to enter upon the portion of the Property where such violation exists and to abate, mitigate, or cure such violation at the expense of the Owner. Any such entry by DEQ shall not be deemed a trespass, and DEQ shall not be subject to liability to the Owner of the Property for such entry or for any action taken to abate, mitigate, or cure a violation; provided, that DEQ shall indemnify and hold Owner harmless for, from and against damages, costs (including, without limitation, attorneys' fees and costs), expenses, claims and liabilities arising out of the gross negligence or willful misconduct of DEQ or its employees, agents, officials and contractors, to the extent permitted by Article XI, Section 7 of the Oregon Constitution and by the Oregon Tort Claims Act. During reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, BNSF shall have a non-exclusive license to enter upon the Property to the extent required by DEQ so that BNSF may implement the ROD and BNSF's obligations under the Consent Decree.

Grantor reserves for itself, upon sale or other transfer of any interest in the Property, a non-exclusive license to enter upon the Property during reasonable hours and subject to reasonable security requirements and reasonable advance written notice to Owner, to the extent required by DEQ so that Grantor may implement the ROD and Grantor's obligations under the Consent Decree.

GENERAL PROVISIONS.

Grantor shall record this License and Declaration of Restrictions in the records of deeds of real property in Multnomah County, such recordation being expressly authorized by statute including, without limitation, ORS 93.710.

By executing this License and Declaration of Restrictions, DEQ approves this instrument in accordance with ORS 93.808.

All conditions and restrictions contained in this License and Declaration of Restrictions shall run with the land, until such time as any condition or restriction is removed by written certification from DEQ that the condition or restriction is no longer required in order to protect human health or the environment.

Any person or entity who at any time owns, occupies, or acquires any right, title, or interest in or to any portion of the Property is and shall be conclusively deemed to have consented and agreed to every condition and restriction contained in this License and Declaration of Restrictions, whether or not any reference to this License and Declaration of Restrictions is contained in the instrument by which such person or entity acquired an interest in the Property.

The Owner of the Property shall notify DEQ within thirty (30) days following Owner's petitioning for or filing of any document initiating a rezoning of the Property that would change the base zone of the Property under the City of Portland zoning code or any successor code.

Upon any violation of any condition or restriction contained in this License and Declaration of Restrictions, DEQ may enforce this License and Declaration of Restrictions through the remedies described in Section 4.3 as well as through any other remedy available at law or in equity.

IN WITNESS WHEREOF Grantor, DEQ and BNSF have executed this License and Declaration of Restrictions as of the date and year first set forth above.

GRANTOR: Hoyt Street Properties, L.L.C.

By: _____

Its: Managing Member

GRANTEE: State of Oregon Department of Environmental Quality

By: _____

Its: _____

GRANTEE: The Burlington Northern and Santa Fe Railway Company

By: _____

Its: _____

STATE OF OREGON)

) ss.

County of Multnomah)

The foregoing instrument is acknowledged before me this ___ day of _____, 2002, by _____, the managing member of Hoyt Street Properties, L.L.C., on its behalf.

_____

NOTARY PUBLIC FOR OREGON

STATE OF OREGON)
) ss.
County of _____)

The foregoing instrument is acknowledged before me this ___ day of _____, 2002, by _____ of the Department of Environmental Quality of the State of Oregon, on its behalf.

_____
NOTARY PUBLIC FOR OREGON

STATE OF TEXAS)
) ss.
County of _____)

The foregoing instrument is acknowledged before me this _____ day of _____, 2002, by _____, the _____ of The Burlington Northern and Santa Fe Railway Company, on its behalf.

_____
NOTARY PUBLIC FOR TEXAS

EXHIBIT A

Legal Description of the Property

Tract A, HOYT STREET YARDS, in the City of Portland, County of Multnomah and State of Oregon.

September 5, 2000
Project 793737

Dwayne Nelson
Copenhagen Utilities & Construction Company
13600 SE Ambler Road
Clackamas, Oregon 97015

Re: Hoyt Street Railyards Development Project Air Monitoring Results

Dear Mr. Nelson:

This letter report summarizes the sampling methods and analysis results for the airborne lead and polynuclear aromatic hydrocarbon (PAH) samples that were taken on May 17 and 18, 2000 at the Hoyt Street Railyards Development Project Site (Site). (Additional exposure sampling was performed on June 6, 2000. Information on this sampling activity will be forthcoming as soon as analysis results are obtained.)

Employees of the Copenhagen Utilities & Construction Company (Copenhagen) were monitored during construction activities at the Site in regards to their exposure to airborne concentrations of lead and PAHs.

SAMPLING METHODS

Full shift eight-hour personal sampling for lead and PAHs was performed in accordance with industry accepted methods as detailed in the OR-OSHA *Technical Manual, Section 1, Chapter 1 Personal Sampling for Air Contaminant;* and the Gilian *Gilair-3 & Gilair-5 Air Sampling Systems Operation & Service Manual, December 1996.*

An attempt was made to place the air sampling pumps on personnel that were expected to be exposed to the highest concentrations of dust on the project site. The Copenhagen personnel involved with this two-day sampling event were engaged in trenching/excavation activities in the southwest corner of the project site.

Gilian GILAIR-3 personal air sampling pumps were used to gather the lead and PAH samples. Lead samples were collected using two-piece cassettes and preweighed 0.8-micron mixed cellulose ester 37-mm diameter filters. PAH samples were collected using preweighed 2-micron Teflon filters and supporting three-piece cassettes. Both types of samples were collected using sampling pumps calibrated for a flow rate of 2.0 liters per minute (LPM).

Each sampling pump was pre- and post-calibrated using a Gilian Primary Standard Airflow Calibrator (serial number 11605-B) equipped with a standard (20 cc/min. to 6 LPM) flow cell assembly (serial number 19038-S).

SAMPLE ANALYSIS

The filter cassettes from the two-day sampling event were submitted on May 24, 2000 to the Kemper/NATLSCO Industrial Hygiene Laboratory located in Long Grove, Illinois, for analysis. Kemper/NATLSCO is one of the leading environmental sciences laboratories in the country, and it is accredited by the American Industrial Hygiene Associated (AIHA).

Airborne samples for PAHs were analyzed using NIOSH Method 5506 high pressure liquid chromatography (HPLC). The PAH analysis involved measurement of the concentrations of 16 individual PAHs and a measurement of total coal tar pitch volatiles. Lead samples were analyzed using NIOSH Method 7082 by flame atomic absorption spectroscopy (AAS).

EXPOSURE LIMITS

The OR-OSHA permissible exposure limit (PEL) for lead is 50 micrograms per cubic meter ($\mu g/m^3$) of air averaged over an eight-hour period. Lead also has a regulatory action level of 30 $\mu g/m^3$ as calculated as an eight-hour time-weighted average (TWA).

The PAHs of concern are those that fall under the category of what are called coal tar pitch volatiles, which are either known or suspected to be carcinogenic to humans. The OR-OSHA PEL for these materials is 0.2 milligrams per cubic meter (mg/m^3).

SAMPLE RESULTS SUMMARY

A total of seven personal samples were taken for lead analysis during the two-day sampling event. Six of the seven samples had results that were less than the lower detection limit of the lead analysis (<1 $\mu g/m^3$). The seventh sample had a result of 1.5 $\mu g/m^3$.

Three personal samples were taken for PAHs over the two-day sampling event. All individual PAHs were below the laboratory's lower limit of detection (<0.0001 mg/m^3). The maximum total coal tar pitch volatiles concentration detected was 0.063 mg/m^3.

DISCUSSION

The highest concentration of lead detected was 1.5 $\mu g/m^3$, which is a factor of 20 below the action level for lead (30 $\mu g/m^3$), and a factor of 33 below the PEL (50 $\mu g/m^3$). The one lead sample that had a detectable concentration was worn by a pipefitter who spent the majority of his time in the excavation in close proximity with site soils and in an area of minimal ventilation.

The highest concentration of PAHs detected involved total coal tar pitch volatiles with a concentration of 0.063 mg/m^3, which is a factor of 3.17 below the PEL.

Based on these analytical results, our current use of protective work practices and personal protective equipment at the Hoyt Street Railyards Development Project site appears to be adequate to prevent worker exposure to concentrations of lead and PAHs near or above their respective action level or PELs.

I recommend that we continue to use the current level of personal protective equipment and dust control work practices at this project site while conditions exist for personnel contact with potentially contaminated soils.

If you have any questions about the finding of this report, please contact Patrick Moore at (425) 485-5000.

Sincerely,

IT CORPORATION

Patrick Moore
Project Health and Safety Manager

Jeff Lower, P.E.
Client Program Manager/Engineer

Attachments: Limitations
Laboratory Analysis Reports
Air Monitoring Data Sheets

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in occupational health standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Block 24 - Former Hoyt Street Railyard
NW 12th Avenue and NW Quimby Street
Portland, OR 97209

Inquiry Number: 6942616.2s
April 15, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

COORDINATES

Latitude (North):	45.5340940 - 45ˆ 32' 2.73''
Longitude (West):	122.6831030 - 122ˆ 40' 59.17''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	524743.9
UTM Y (Meters):	5042115.5
Elevation:	36 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14878142 PORTLAND, OR
Version Date:	2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140630
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	RIVIERA MOTORS INC	1605 SW FRONT ST	OR LUST, OR UST	Lower	86, 0.016, NNE
A2	WESTERN STATIONS CO	1466 NW FRONT AVE	EDR Hist Auto	Lower	122, 0.023, ENE
B3	THE ABIGAIL	1650 NW 13TH AVE.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Lower	182, 0.034, NW
B4	GANNON GEO T	1733 SW FRONT AVE	EDR Hist Cleaner	Lower	188, 0.036, NNW
C5	HOYT STREET RAILYARD	1150 NW QUIMBY ST.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	227, 0.043, SSE
6	FREMONT PLACE	1650 NW NAITO PARKWA	OR ECSI, OR VCP	Lower	232, 0.044, NNW
D7	HOYT STREET RAILYARD	1540 NW 13TH AVE.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	237, 0.045, WSW
B8	ADAMSON MARK	1667 NW 13TH ST	EDR Hist Auto	Higher	245, 0.046, NW
B9	GERLING FRED C	1312 NW RALEIGH	EDR Hist Auto	Higher	260, 0.049, West
D10	SPEARS PROPERTY	1350 NW RALEIGH STRE	OR LUST, US BROWNFIELDS, RCRA NonGen / NLR	Higher	359, 0.068, West
C11	HEATING OIL TANK	NW CORNER OF NW 12TH	OR LUST	Higher	365, 0.069, SSE
E12	HEATING OIL TANK	1811 NW FRONT	OR LUST	Lower	397, 0.075, NW
E13	HOYT STREET RAILYARD	NORTHEAST OF NW SAVI	OR ECSI, OR VCP	Higher	423, 0.080, NW
14	HOYT STREET RAILYARD	1620 NW 14TH AVE.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	442, 0.084, WNW
C15	HOYT STREET RAILYARD	1315 NW 11TH AVE.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	467, 0.088, South
F16	HEATING OIL TANK	1428 NW 14TH	OR LUST	Higher	513, 0.097, WSW
17	HOYT ST. RAIL YARD -	EAST OF NW 11TH AVE.	OR CRL, OR ECSI, OR ENG CONTROLS, OR INST CONTROL,	Lower	518, 0.098, SE
G18	NORTHWEST LAUNDRY MA	1301 NW 12TH AVE	EDR Hist Cleaner	Higher	541, 0.102, South
F19	BARNEY S REPAIR	1420 NW PETTYGROVE S	EDR Hist Auto	Higher	551, 0.104, SW
20	HEATING OIL TANK	1705 NW 14TH AVE	OR LUST	Higher	564, 0.107, NW
H21	CENTENNIAL MILLS DIV	1362 NW NAITO PKWY	OR ECSI, OR LUST, OR UST, OR VCP	Lower	572, 0.108, ESE
H22	HEATING OIL TANK	1362 NW FRONT AVE	OR LUST	Lower	572, 0.108, ESE
F23	HAMILTON TEST SYSTEM	1421 NW 14TH AVE	EDR Hist Auto	Higher	577, 0.109, WSW
F24	DIRECT MAIL/MAIL MAR	1421 NW 14TH	OR LUST, OR UST	Higher	577, 0.109, WSW
F25	PENSKE TRUCK LEASING	1325 NW 14TH AVE	OR LUST, OR UST	Higher	655, 0.124, SW
G26	VXCHNGE-FACILITIES,	1233 NW 12TH AVE	OR AST	Higher	681, 0.129, South
27	HEATING OIL TANK	1433 NW QUIMBY ST	OR LUST	Higher	697, 0.132, West
G28	HEATING OIL TANK	1223 NW 12TH	OR LUST	Higher	704, 0.133, South
29	HOYT STREET RAILYARD	1075 NW NORTHRUP ST.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	789, 0.149, South
30	STATION PLACE - LOT	1250 NW 9TH AVE.	OR ECSI, OR VCP	Lower	816, 0.155, SE
31	GENERAL DISTRIBUTOR	1509 NW SAVIER	OR LUST, OR UST	Higher	907, 0.172, WNW
I32	VERIZON BUSINESS -OR	1335 NW NORTHRUP ST	OR ECSI, OR CRL, OR AST, OR ENG CONTROLS, OR INST...	Higher	951, 0.180, SSW
J33	HEATING OIL TANK	1205 NW MARSHALL	OR LUST	Higher	1023, 0.194, South
K34	ODA LABORATORY SERVI	1207 NW NAITO PKY ST	RCRA-VSQG	Lower	1086, 0.206, SE
K35	UNION STATION PARCEL	1207 NW NAITO PKWY.	OR CRL, OR ECSI, OR ENG CONTROLS, OR VCP, OR...	Lower	1086, 0.206, SE
J36	MARSHALL	1220 NW MARSHALL ST	SEMS-ARCHIVE, RCRA NonGen / NLR	Higher	1130, 0.214, South
J37	HEATING OIL TANK	1220 NW MARSHALL ST	OR ECSI, OR LUST, OR VCP	Higher	1130, 0.214, South
38	STARK & NORRIS CO	1703 NW 16TH AVE	OR LUST, OR UST	Higher	1130, 0.214, WNW
L39	NW 16TH STORAGE, LLC	1323 NW 16TH AVE.	OR ECSI, OR VCP	Higher	1149, 0.218, WSW

MAPPED SITES SUMMARY

Target Property Address:
NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L40	1323 NW 16TH AVE	1323 NW 16TH AVE	OR UST	Higher	1149, 0.218, WSW
I41	HEATING OIL TANK	1107 NW 14TH AVENUE	OR LUST	Higher	1165, 0.221, SSW
42	HEATING OIL TANK	1631 NW THURMAN	OR LUST	Higher	1179, 0.223, WNW
M43	BURLINGTON NORTHERN	1105 NW 9TH AVE	OR UST	Higher	1202, 0.228, SSE
N44	HOYT STREET RAILYARD	NORTH OF LOVEJOY BTW	OR CRL, OR ECSI, OR ENG CONTROLS, OR INST CONTROL,	Lower	1215, 0.230, SE
O45	SAFEWAY STORE NO 279	1303 NW LOVEJOY ST	RCRA-VSQG	Higher	1216, 0.230, SSW
P46	IERULLI	1520 NW 17TH AVE	OR LUST, OR UST	Higher	1223, 0.232, West
L47	FLOOR FACTORS INC	1320 NW 17TH AVE	OR LUST	Higher	1299, 0.246, WSW
N48	9TH & LOVEJOY INFRAS	800 NW MARSHALL	OR LUST, OR UST	Lower	1313, 0.249, SE
L49	HEATING OIL TANK	1638 NW OVERTON ST	OR LUST	Higher	1319, 0.250, WSW
M50	PORTLAND DEVELOPMENT	1036 NW 9TH	OR LUST	Higher	1320, 0.250, SSE
Q51	RAPID TRANSFER CO. (	2030 NW 17TH AVE.	OR ECSI, OR VCP	Lower	1337, 0.253, NW
Q52	RAPID TRANSFER CO. -	2030 NW 17TH AVE	OR LUST	Lower	1337, 0.253, NW
O53	HEATING OIL TANK	1035 NW 14TH AVE	OR LUST	Higher	1340, 0.254, SSW
R54	PREMIER GEAR	1715 NW 17TH AVE.	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Higher	1359, 0.257, WNW
S55	LONG BUILDING	1602 NW NORTHRUP	OR LUST	Higher	1388, 0.263, SW
T56	WATERFRONT PEARL CON	1118 NW FRONT AVE.	OR ECSI, OR VCP	Lower	1417, 0.268, ESE
S57	HEATING OIL TANK	1121 NW 16TH AVE	OR LUST	Higher	1432, 0.271, SW
58	STATION PLACE REDEVE	1020 & 1150 NW 9TH A	OR CRL, OR ECSI, OR ENG CONTROLS, OR INST CONTROL,	Lower	1434, 0.272, SE
P59	S & H LEASING CO	1725 NW QUIMBY ST	OR LUST, OR UST	Higher	1439, 0.273, West
60	HUTCHESON, DON	1732 NW QUIMBY ST	OR LUST, OR UST	Higher	1479, 0.280, West
S61	HEATING OIL TANK	1111 NW 16TH AVE	OR LUST	Higher	1480, 0.280, SW
U62	HEATING OIL TANK	930 NW 14TH (INTERSE	OR LUST	Higher	1481, 0.280, SSW
U63	MCCLASKEY'S WINE DIS	930 NW 14TH AVE	OR LUST, OR UST	Higher	1481, 0.280, SSW
T64	ALBERS MILL PROPERTY	1200 NW NAITO PKWY.	OR ECSI	Lower	1502, 0.284, ESE
R65	HEATING OIL TANK	1700 NW THURMAN ST	OR LUST	Higher	1517, 0.287, WNW
S66	MOVING SPACES LLC	1211 NW 17TH AVE	OR LUST	Higher	1522, 0.288, SW
V67	HOYT STREET RAILYARD	900 NW LOVEJOY ST.	OR CRL, OR ECSI, OR ENG CONTROLS, OR INST CONTROL,	Higher	1528, 0.289, SSE
T68	ALBER'S MILL PROPERT	1060 NW FRONT	OR LUST	Lower	1562, 0.296, ESE
69	RIVERTEC PROPERTY	1233 NW KEARNEY ST.	OR ECSI	Higher	1567, 0.297, South
W70	HEATING OIL TANK	1033-1039 NW 16TH AV	OR LUST	Higher	1610, 0.305, SW
X71	PRO TRUCK LINES	1721 NW NORTHRUP	OR LUST, OR UST	Higher	1611, 0.305, WSW
72	HEATING OIL TANK	1900 NW 18TH AVE	OR LUST	Higher	1626, 0.308, WNW
X73	HEATING OIL TANK	1714 NW NORTHROP	OR LUST	Higher	1629, 0.309, SW
W74	CHECKMASTER, INC. DB	1020 NW 17TH	OR LUST, OR UST	Higher	1683, 0.319, SW
V75	HOYT STREET RAILYARD	920 NW KEARNEY ST.	OR ECSI, OR VCP, OR BROWNFIELDS	Higher	1687, 0.320, SSE
Y76	MKC ENTERPRISES II	1832 NW RALEIGH ST	OR LUST	Higher	1689, 0.320, West
Y77	M K C ENTERPRISES IN	1832 NW RALEIGH ST	OR LUST	Higher	1689, 0.320, West
Z78	PACIFICORP ALBINA RI	LOTS NEAR BASE OF TH	OR ECSI, OR VCP	Lower	1699, 0.322, NNE

MAPPED SITES SUMMARY

Target Property Address:
NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
X79	HEATING OIL TANK	1715 NW MARSHALL ST	OR LUST	Higher	1700, 0.322, SW
80	ABANDONED TANNER CRE	NW 9TH AVE. FROM NW	OR ECSI, OR VCP	Higher	1712, 0.324, SSE
X81	NORTH 18 APARTMENTS	1784 NW NORTHRUP STR	OR ECSI, OR VCP	Higher	1717, 0.325, WSW
V82	HEATING OIL TANK	845 NW 9TH STREET	OR LUST	Higher	1718, 0.325, SSE
Y83	HEATING OIL TANK	1526 NW 19TH	OR LUST	Higher	1729, 0.327, West
Y84	HEATING OIL TANK	1502 NW 19TH AVE	OR LUST	Higher	1737, 0.329, West
AA85	TFA, INC.	2090 NW FRONT	OR LUST	Lower	1744, 0.330, NW
AA86	RIVERNORTH	2100 NW FRONT AVE	OR ECSI, OR CRL, OR INST CONTROL, OR VCP, OR UIC	Lower	1766, 0.334, NW
87	RIVER MILE 11E STUDY	EAST BANK OF WILLAME	OR ECSI	Lower	1822, 0.345, NE
Z88	ROSS ISLAND SAND & G	1208 N RIVER ST.	OR ECSI	Lower	1827, 0.346, NNE
Z89	K.F. JACOBSEN & CO.,	1208 N RIVER ST	OR LUST, OR UST	Lower	1827, 0.346, NNE
90	ARMORED TRANSPORT NW	1015 NW 17TH AVE	OR LUST, OR UST	Higher	1829, 0.346, SW
AB91	K T GALV INC	820 NW 15TH AVE	SEMS-ARCHIVE, RCRA NonGen / NLR	Higher	1830, 0.347, SSW
AC92	OREGON STATE HWY PRO	NW 19TH & THURMAN	OR LUST	Higher	1832, 0.347, WNW
AB93	PACIFIC STATES GALVA	820 NW 15TH AVE.	OR ECSI, OR CRL, OR VCP	Higher	1851, 0.351, SSW
AD94	GLACIER NORTHWEST IN	1050 N RIVER ST	OR ECSI, OR AST, OR VCP	Lower	1859, 0.352, NNE
AD95	LONESTAR NORTHWEST-R	1050 NORTH RIVER STR	OR LUST	Lower	1859, 0.352, NNE
AE96	RADIO CAB CO	1613 NW KEARNEY ST	OR LUST, OR UST, OR AST	Higher	1913, 0.362, SW
AC97	1825 NW 19TH AVENUE	1825 NW 19TH AVE	OR LUST	Higher	1928, 0.365, WNW
AF98	HEATING OIL TANK	1313 NW 19TH	OR LUST	Higher	1940, 0.367, WSW
AF99	NORTH COAST CANVAS P	1235 NW 19TH AVE	OR LUST, OR UST	Higher	1952, 0.370, WSW
100	HYDRAULIC & AIR EQUI	1925 NW QUIMBY ST	OR LUST, OR UST	Higher	1962, 0.372, West
AE101	HEATING OIL TANK	833 NW 16TH AVENUE	OR LUST	Higher	1967, 0.373, SSW
AG102	A-BOY ELECTRIC	1919 NW 19TH AVE	OR LUST, OR UST	Higher	1969, 0.373, WNW
AH103	HEATING OIL TANK	1935 NW RALEIGH ST	OR LUST	Higher	1998, 0.378, West
AI104	TUCKER BUILDING	2110 N LEWIS AVE	OR CRL, OR ECSI, OR ENG CONTROLS, OR INST CONTROL,	Higher	2006, 0.380, NE
105	HEATING OIL TANK	1112 NW 19TH AVE	OR LUST	Higher	2009, 0.380, WSW
AJ106	HEATING OIL TANK	1901 NW NORTHRUP ST	OR LUST	Higher	2013, 0.381, WSW
AK107	RIVER STREET WAREHOU	1300 NORTH RIVER STR	SEMS	Lower	2017, 0.382, North
AK108	RIVER STREET WAREHOU	1300 N RIVER ST.	OR ECSI	Lower	2017, 0.382, North
109	CARGILL INCORPORATED	800 N RIVER ST.	OR ECSI, OR AST, OR VCP	Lower	2020, 0.383, East
AG110	HEATING OIL TANK	2001 NW 19TH	OR LUST	Higher	2025, 0.384, WNW
AJ111	HEATING OIL TANK	1905 NW NORTHRUP ST	OR LUST	Higher	2037, 0.386, WSW
112	HEATING OIL TANK	2200 NW FRONT	OR LUST	Lower	2044, 0.387, NW
AH113	CONSOLIDATED FREIGHT	1947 NW SAVIER ST	OR LUST, OR UST	Higher	2073, 0.393, West
AL114	RAPID TRANSFER	907 NW IRVING	OR LUST	Higher	2079, 0.394, SSE
AM115	NW PORTLAND MGP	715 NW HOYT ST	EDR MGP	Higher	2091, 0.396, SSE
AM116	HEATING OIL TANK	715 NW HOYT STREET	OR CRL, OR ECSI, OR LUST, OR ENG CONTROLS, OR INST..	Higher	2091, 0.396, SSE
AN117	UNOCAL 0738	930 NW 18TH	OR ECSI, OR LUST, OR UST, OR VCP	Higher	2095, 0.397, SW

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PORTLAND, OR 97209

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AF118	INDUSTRIAL CATERING,	1940 NW OVERTON ST.	OR LUST, OR UST	Higher	2097, 0.397, WSW
AF119	HEINDRICKS MOTOR CO.	1947 NW OVERTON	OR LUST, OR UST	Higher	2105, 0.399, WSW
AH120	HEATING OIL TANK	1955 NW RALEIGH	OR LUST	Higher	2106, 0.399, West
121	BSS ALBINA	2100 N. ALBINA STREE	OR ECSI, OR VCP	Higher	2116, 0.401, ENE
AI122	ALBINA OPERATIONS CE	2126 N LEWIS AVE	OR LUST, OR UST	Higher	2118, 0.401, NE
123	SAKRETE OF PACIFIC N	1402 N RIVER ST	OR LUST, OR UST	Lower	2124, 0.402, North
AO124	VERMICULITE NORTHWES	2303 N HARDING AVE.	OR ECSI	Higher	2144, 0.406, NNE
AO125	VERMICULITE NORTHWES	2303 N. HARDING AVE.	SEMS-ARCHIVE	Higher	2144, 0.406, NNE
AH126	HEATING OIL TANK	1965 NW RALEIGH ST	OR LUST	Higher	2156, 0.408, West
127	MATERIALS TEST LAB,	1405 N RIVER ST	OR LUST, OR UST	Lower	2230, 0.422, North
AL128	HEATING OIL TANK	630 NW 10TH	OR LUST	Higher	2244, 0.425, SSE
129	ENGINE-3	1715 NW JOHNSON ST	OR LUST, OR UST	Higher	2250, 0.426, SW
AN130	HEATING OIL TANK	1815 NW KEARNEY	OR LUST	Higher	2253, 0.427, SW
131	UNION STATION - PTLD	800 NW 6TH AVE	OR ECSI, OR LUST, OR UST, OR VCP	Lower	2290, 0.434, SE
AN132	HEATING OIL TANK	1812 NW KEARNEY ST	OR LUST	Higher	2293, 0.434, SW
133	BONNIES HAMBURGERS	932 NW 19TH	OR LUST	Higher	2294, 0.434, SW
134	HEATING OIL TANK	1995 NW UPSHUR	OR LUST	Higher	2317, 0.439, WNW
AP135	HEATING OIL TANK	600 NW 14TH	OR LUST	Higher	2363, 0.448, SSW
136	FLEET MANAGEMENT REP	1850 N INTERSTATE AV	OR LUST, OR UST	Higher	2374, 0.450, ENE
137	HEATING OIL TANK	1204 NW 20TH	OR LUST	Higher	2386, 0.452, WSW
138	HEATING OIL TANK	535 NW 11TH AVENUE	OR LUST	Higher	2446, 0.463, South
AP139	HEATING OIL TANK	1440 NW HOYT ST	OR ECSI, OR LUST, OR VCP, OR UIC	Higher	2466, 0.467, SSW
AQ140	HEATING OIL TANK	1640 NW IRVING ST	OR LUST	Higher	2489, 0.471, SSW
141	VALVOLINE	2308 N CLARK AVE.	OR ECSI, OR VCP, OR BROWNFIELDS	Higher	2494, 0.472, NE
142	HEATING OIL TANK	829 NW 19TH AVE	OR LUST	Higher	2514, 0.476, SW
143	PREMIER PRESS	510 NW 15TH	RCRA-VSQG, OR LUST, OR UST	Higher	2549, 0.483, SSW
AR144	BUILDERS APPLIANCE S	2012 NW VAUGHN	OR LUST, OR UST	Higher	2554, 0.484, WNW
AR145	HEATING OIL TANK	2012 NW VAUGHN ST	OR LUST	Higher	2554, 0.484, WNW
AS146	HEATING OIL TANK	2025 NW OVERTON ST	OR LUST	Higher	2562, 0.485, WSW
147	PAC WEST GLASS, INC	723 N TILLAMOOK	OR LUST, OR UST	Higher	2570, 0.487, ENE
148	CONSOLIDATED FREIGHT	2050 NW RALEIGH STRE	OR LUST	Higher	2576, 0.488, West
AT149	CITY OF PORTLAND WAT	1900 N INTERSTATE AV	OR LUST	Higher	2577, 0.488, ENE
AT150	PORTLAND, CITY OF WA	1900 N INTERSTATE AV	OR LUST	Higher	2577, 0.488, ENE
151	IRON MOUNTAIN	2116 NW 20TH AVE	WA SWF/LF	Higher	2582, 0.489, WNW
152	TECHNI-GLASS	2221 N ALBINA	OR LUST	Higher	2585, 0.490, NE
153	RIVER DISTRICT BLOCK	BLOCK BOUNDED BY NW	OR ECSI, OR ENG CONTROLS, OR INST CONTROL, OR VCP	Lower	2596, 0.492, SE
AU154	HEATING OIL TANK	732 NW 19TH AVE	OR LUST	Higher	2603, 0.493, SW
AS155	HEATING OIL TANK	2034 NW OVERTON	OR LUST	Higher	2607, 0.494, WSW
AU156	C.G. CONSTRUCTION	1801 NW IRVING ST	OR LUST	Higher	2616, 0.495, SW

MAPPED SITES SUMMARY

Target Property Address:
NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AQ157	HEATING OIL TANK	617 NW 17TH AVE	OR LUST	Higher	2633, 0.499, SSW
158	PORTLAND GAS CO	NW DAVIS STREET	EDR MGP	Higher	3529, 0.668, South
159	PORTLAND GAS MANUFAC	NW EVERETT,GLISAN,2N	EDR MGP	Lower	3800, 0.720, SE
160	PORTLAND GAS CO	1ST ST N,EVERETT,FRO	EDR MGP	Lower	4200, 0.795, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

OR SWF/LF ---------- Solid Waste Facilities List

Lists of state and tribal leaking storage tanks

INDIAN LUST Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST Underground Storage Tank Listing
INDIAN UST Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

OR AQUEOUS FOAM AFFF Contamination Site Listing

Other Ascertainable Records

SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
OR DRYCLEANERS Drycleaning Facilities
MINES MRDS Mineral Resources Data System

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on

the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RIVER STREET WAREHOU	1300 NORTH RIVER STR	N 1/4 - 1/2 (0.382 mi.)	AK107	518

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/25/2022 has revealed that there are 3 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARSHALL Site ID: 1000400 EPA Id: ORD027764349	***1220 NW MARSHALL ST***	***S 1/8 - 1/4 (0.214 mi.)***	***J36***	***224***
K T GALV INC Site ID: 1000487 EPA Id: ORD980665350	***820 NW 15TH AVE***	***SSW 1/4 - 1/2 (0.347 mi.)***	***AB91***	***457***
VERMICULITE NORTHWES Site ID: 1002676 EPA Id: ORSFN1002216	2303 N. HARDING AVE.	NNE 1/4 - 1/2 (0.406 mi.)	AO125	582

Lists of Federal RCRA generators

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 02/28/2022 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFEWAY STORE NO 279	1303 NW LOVEJOY ST	SSW 1/8 - 1/4 (0.230 mi.)	O45	276

EPA ID:: ORQ000034108

Lower Elevation	Address	Direction / Distance	Map ID	Page
ODA LABORATORY SERVI EPA ID:: ORQ000012104	1207 NW NAITO PKY ST	SE 1/8 - 1/4 (0.206 mi.)	K34	200

Lists of state- and tribal hazardous waste facilities

OR CRL: Sites that are or may be contaminated and may require cleanup.

A review of the OR CRL list, as provided by EDR, and dated 11/01/2021 has revealed that there are 10 OR CRL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERIZON BUSINESS -OR Facility Status: No Further Action (Conditional) Facility Id: 2313	***1335 NW NORTHRUP ST***	***SSW 1/8 - 1/4 (0.180 mi.)***	***I32***	***181***
HOYT STREET RAILYARD Facility Status: No Further Action (Conditional) Facility Id: 4960	***900 NW LOVEJOY ST.***	***SSE 1/4 - 1/2 (0.289 mi.)***	***V67***	***390***
PACIFIC STATES GALVA Facility Status: RISK ASSESSMENT Facility Id: 1024	***820 NW 15TH AVE.***	***SSW 1/4 - 1/2 (0.351 mi.)***	***AB93***	***470***
TUCKER BUILDING Facility Status: No Further Action (Conditional) Facility Id: 3036	***2110 N LEWIS AVE***	***NE 1/4 - 1/2 (0.380 mi.)***	***AI104***	***506***
HEATING OIL TANK Facility Status: REMEDIAL ACTION Facility Id: 2183	***715 NW HOYT STREET***	***SSE 1/4 - 1/2 (0.396 mi.)***	***AM116***	***530***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOYT ST. RAIL YARD - Facility Status: No Further Action (Conditional) Facility Id: 5443	***EAST OF NW 11TH AVE.***	***SE 0 - 1/8 (0.098 mi.)***	***17***	***126***
UNION STATION PARCEL Facility Status: Partial No Further Action Facility Id: 1962	***1207 NW NAITO PKWY.***	***SE 1/8 - 1/4 (0.206 mi.)***	***K35***	***205***
HOYT STREET RAILYARD Facility Status: REMEDIAL ACTION Facility Id: 1080	***NORTH OF LOVEJOY BTW***	***SE 1/8 - 1/4 (0.230 mi.)***	***N44***	***243***
STATION PLACE REDEVE Facility Status: No Further Action (Conditional) Facility Id: 2407	***1020 & 1150 NW 9TH A***	***SE 1/4 - 1/2 (0.272 mi.)***	***58***	***331***
RIVERNORTH Facility Status: Partial No Further Action Facility Id: 2642	***2100 NW FRONT AVE***	***NW 1/4 - 1/2 (0.334 mi.)***	***AA86***	***429***

EXECUTIVE SUMMARY

OR ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the OR ECSI list, as provided by EDR, and dated 12/01/2021 has revealed that there are 43 OR ECSI sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOYT STREET RAILYARD Size: 0.92 acres Investigation: Suspect State ID Number: 6116	***1150 NW QUIMBY ST.***	***SSE 0 - 1/8 (0.043 mi.)***	***C5***	***26***
HOYT STREET RAILYARD Size: 1.32 acres Investigation: Suspect State ID Number: 6352	***1540 NW 13TH AVE.***	***WSW 0 - 1/8 (0.045 mi.)***	***D7***	***52***
HOYT STREET RAILYARD Investigation: Suspect State ID Number: 6162	***NORTHEAST OF NW SAVI***	***NW 0 - 1/8 (0.080 mi.)***	***E13***	***80***
HOYT STREET RAILYARD Size: 0.23 acres Investigation: Suspect State ID Number: 6103	***1620 NW 14TH AVE.***	***WNW 0 - 1/8 (0.084 mi.)***	***14***	***87***
HOYT STREET RAILYARD Size: 0.92 acres Investigation: No Further Action State ID Number: 5867	***1315 NW 11TH AVE.***	***S 0 - 1/8 (0.088 mi.)***	***C15***	***109***
HOYT STREET RAILYARD Size: 0.92 acres Investigation: No Further Action State ID Number: 5894	***1075 NW NORTHRUP ST.***	***S 1/8 - 1/4 (0.149 mi.)***	***29***	***163***
VERIZON BUSINESS -OR Size: 0.92 acres Investigation: Listed on the CRL/Inventory State ID Number: 2313	***1335 NW NORTHRUP ST***	***SSW 1/8 - 1/4 (0.180 mi.)***	***I32***	***181***
HEATING OIL TANK Size: 0.92 acres Investigation: No Further Action State ID Number: 1331	***1220 NW MARSHALL ST***	***S 1/8 - 1/4 (0.214 mi.)***	***J37***	***229***
NW 16TH STORAGE, LLC Investigation: No Further Action State ID Number: 5120	***1323 NW 16TH AVE.***	***WSW 1/8 - 1/4 (0.218 mi.)***	***L39***	***238***
PREMIER GEAR Size: 0.91 acres Investigation: Suspect State ID Number: 6329	***1715 NW 17TH AVE.***	***WNW 1/4 - 1/2 (0.257 mi.)***	***R54***	***288***
HOYT STREET RAILYARD Size: 1.17 acres Investigation: Listed on the CRL/Inventory State ID Number: 4960	***900 NW LOVEJOY ST.***	***SSE 1/4 - 1/2 (0.289 mi.)***	***V67***	***390***
RIVERTEC PROPERTY Size: 0.92 acre	1233 NW KEARNEY ST.	S 1/4 - 1/2 (0.297 mi.)	69	397

Investigation: Suspect
State ID Number: 3067
Decode For Further Action: Low

HOYT STREET RAILYARD	***920 NW KEARNEY ST.***	***SSE 1/4 - 1/2 (0.320 mi.)***	***V75***	***403***
Size: 0.94 acres Investigation: No Further Action State ID Number: 1624				
ABANDONED TANNER CRE	***NW 9TH AVE. FROM NW***	***SSE 1/4 - 1/2 (0.324 mi.)***	***80***	***421***
Investigation: Suspect State ID Number: 5328 Decode For Further Action: High				
NORTH 18 APARTMENTS	***1784 NW NORTHRUP STR***	***WSW 1/4 - 1/2 (0.325 mi.)***	***X81***	***426***
Size: 0.46 Investigation: Suspect State ID Number: 6488				
PACIFIC STATES GALVA	***820 NW 15TH AVE.***	***SSW 1/4 - 1/2 (0.351 mi.)***	***AB93***	***470***
Size: 0.94 acres Investigation: Listed on the CRL/Inventory State ID Number: 1024				
TUCKER BUILDING	***2110 N LEWIS AVE***	***NE 1/4 - 1/2 (0.380 mi.)***	***AI104***	***506***
Size: 0.92 acre Investigation: Listed on the CRL/Inventory State ID Number: 3036				
HEATING OIL TANK	***715 NW HOYT STREET***	***SSE 1/4 - 1/2 (0.396 mi.)***	***AM116***	***530***
Size: 13.37 acres Investigation: Listed on the CRL/Inventory State ID Number: 2183				
UNOCAL 0738	***930 NW 18TH***	***SW 1/4 - 1/2 (0.397 mi.)***	***AN117***	***567***
Investigation: No Further Action State ID Number: 1396				
BSS ALBINA	***2100 N. ALBINA STREE***	***ENE 1/4 - 1/2 (0.401 mi.)***	***121***	***574***
Size: 1.78 acres Investigation: Suspect State ID Number: 6287				
VERMICULITE NORTHWES	2303 N HARDING AVE.	NNE 1/4 - 1/2 (0.406 mi.)	AO124	578
Size: 0.46 acre Investigation: Suspect State ID Number: 2761				
HEATING OIL TANK	***1440 NW HOYT ST***	***SSW 1/4 - 1/2 (0.467 mi.)***	***AP139***	***590***
Size: 0.80 acres Investigation: No Further Action State ID Number: 6224				
VALVOLINE	***2308 N CLARK AVE.***	***NE 1/4 - 1/2 (0.472 mi.)***	***141***	***612***
Size: 0.66 acre Investigation: No Further Action State ID Number: 3215				

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE ABIGAIL	***1650 NW 13TH AVE.***	***NW 0 - 1/8 (0.034 mi.)***	***B3***	***6***
Size: 0.92 acres				

Investigation: No Further Action State ID Number: 5856				
FREMONT PLACE Investigation: Suspect State ID Number: 6403	***1650 NW NAITO PARKWA***	***NNW 0 - 1/8 (0.044 mi.)***	***6***	***51***
HOYT ST. RAIL YARD - Size: 3.3 acres Investigation: Listed on the CRL/Inventory State ID Number: 5443 Decode For Further Action: Medium	***EAST OF NW 11TH AVE.***	***SE 0 - 1/8 (0.098 mi.)***	***17***	***126***
CENTENNIAL MILLS DIV Size: 4.75 acres Investigation: Suspect State ID Number: 5136	***1362 NW NAITO PKWY***	***ESE 0 - 1/8 (0.108 mi.)***	***H21***	***140***
STATION PLACE - LOT Size: 0.80 acres Investigation: Suspect State ID Number: 6455	***1250 NW 9TH AVE.***	***SE 1/8 - 1/4 (0.155 mi.)***	***30***	***179***
UNION STATION PARCEL Investigation: Listed on the CRL/Inventory State ID Number: 1962 Decode For Further Action: Low	***1207 NW NAITO PKWY.***	***SE 1/8 - 1/4 (0.206 mi.)***	***K35***	***205***
HOYT STREET RAILYARD Size: 26 acres Investigation: Listed on the CRL/Inventory State ID Number: 1080	***NORTH OF LOVEJOY BTW***	***SE 1/8 - 1/4 (0.230 mi.)***	***N44***	***243***
RAPID TRANSFER CO. (Size: 2.10 acres Investigation: No Further Action State ID Number: 5870	***2030 NW 17TH AVE.***	***NW 1/4 - 1/2 (0.253 mi.)***	***Q51***	***281***
WATERFRONT PEARL CON Size: 2.4 acres Investigation: No Further Action State ID Number: 4535	***1118 NW FRONT AVE.***	***ESE 1/4 - 1/2 (0.268 mi.)***	***T56***	***307***
STATION PLACE REDEVE Size: 6.3 acres Investigation: Listed on the CRL/Inventory State ID Number: 2407	***1020 & 1150 NW 9TH A***	***SE 1/4 - 1/2 (0.272 mi.)***	***58***	***331***
ALBERS MILL PROPERTY Size: 3.22 acres Investigation: Suspect State ID Number: 4590 Decode For Further Action: Medium	1200 NW NAITO PKWY.	ESE 1/4 - 1/2 (0.284 mi.)	T64	376
PACIFICORP ALBINA RI Investigation: Suspect State ID Number: 5117	***LOTS NEAR BASE OF TH***	***NNE 1/4 - 1/2 (0.322 mi.)***	***Z78***	***414***
RIVERNORTH Size: Approx. 15.6 acres Investigation: Listed on the CRL/Inventory State ID Number: 2642	***2100 NW FRONT AVE***	***NW 1/4 - 1/2 (0.334 mi.)***	***AA86***	***429***
RIVER MILE 11E STUDY	EAST BANK OF WILLAME	NE 1/4 - 1/2 (0.345 mi.)	87	451

Investigation: Suspect State ID Number: 5860				
ROSS ISLAND SAND & G Investigation: Suspect State ID Number: 5577 Decode For Further Action: Low	1208 N RIVER ST.	NNE 1/4 - 1/2 (0.346 mi.)	Z88	453
GLACIER NORTHWEST IN Size: Approx. 5.1 acres Investigation: Suspect State ID Number: 5449	***1050 N RIVER ST***	***NNE 1/4 - 1/2 (0.352 mi.)***	***AD94***	***495***
RIVER STREET WAREHOU Investigation: Suspect State ID Number: 6225	1300 N RIVER ST.	N 1/4 - 1/2 (0.382 mi.)	AK108	518
CARGILL INCORPORATED Investigation: Suspect State ID Number: 5561	***800 N RIVER ST.***	***E 1/4 - 1/2 (0.383 mi.)***	***109***	***522***
UNION STATION - PTLD Size: 8.42 acres Investigation: Suspect State ID Number: 5915	***800 NW 6TH AVE***	***SE 1/4 - 1/2 (0.434 mi.)***	***131***	***586***
RIVER DISTRICT BLOCK Investigation: Suspect State ID Number: 3102	***BLOCK BOUNDED BY NW***	***SE 1/4 - 1/2 (0.492 mi.)***	***153***	***646***

Lists of state and tribal landfills and solid waste disposal facilities

WA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Ecology's Solid Waste Facilities Handbook.

A review of the WA SWF/LF list, as provided by EDR, has revealed that there is 1 WA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IRON MOUNTAIN Database: SWF/LF, Date of Government Version: 12/15/2021 Facility Type: Recycling (non-regulated) Facility ID: 1704 Permit Status: Recycle Survey	2116 NW 20TH AVE	WNW 1/4 - 1/2 (0.489 mi.)	151	645

Lists of state and tribal leaking storage tanks

OR LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST Database List.

A review of the OR LUST list, as provided by EDR, and dated 10/01/2021 has revealed that there are

EXECUTIVE SUMMARY

102 OR LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPEARS PROPERTY	***1350 NW RALEIGH STRE***	***W 0 - 1/8 (0.068 mi.)***	***D10***	***66***
Facility ID: 26-09-1214				
HEATING OIL TANK	NW CORNER OF NW 12TH	SSE 0 - 1/8 (0.069 mi.)	C11	79
Facility ID: 26-94-0076				
Cleanup Complete: 12/10/1996				
HEATING OIL TANK	1428 NW 14TH	WSW 0 - 1/8 (0.097 mi.)	F16	126
Facility ID: 26-90-0213				
Cleanup Complete: 10/23/1990				
HEATING OIL TANK	1705 NW 14TH AVE	NW 0 - 1/8 (0.107 mi.)	20	140
Facility ID: 26-90-0067				
Cleanup Complete: 02/27/1990				
DIRECT MAIL/MAIL MAR	***1421 NW 14TH***	***WSW 0 - 1/8 (0.109 mi.)***	***F24***	***161***
Facility ID: 26-90-0407				
Cleanup Complete: 04/04/2002				
PENSKE TRUCK LEASING	***1325 NW 14TH AVE***	***SW 0 - 1/8 (0.124 mi.)***	***F25***	***161***
Facility ID: 26-07-1680				
Cleanup Complete: 05/29/2008				
HEATING OIL TANK	1433 NW QUIMBY ST	W 1/8 - 1/4 (0.132 mi.)	27	163
Facility ID: 26-02-0302				
Cleanup Complete: 09/10/2002				
HEATING OIL TANK	1223 NW 12TH	S 1/8 - 1/4 (0.133 mi.)	G28	163
Facility ID: 26-90-0289				
Cleanup Complete: 08/20/1990				
GENERAL DISTRIBUTOR	***1509 NW SAVIER***	***WNW 1/8 - 1/4 (0.172 mi.)***	***31***	***181***
Facility ID: 26-89-0003				
Cleanup Complete: 01/30/1989				
HEATING OIL TANK	1205 NW MARSHALL	S 1/8 - 1/4 (0.194 mi.)	J33	200
Facility ID: 26-99-0331				
Cleanup Complete: 02/09/2004				
HEATING OIL TANK	***1220 NW MARSHALL ST***	***S 1/8 - 1/4 (0.214 mi.)***	***J37***	***229***
Facility ID: 26-02-0322				
Cleanup Complete: 08/12/2002				
STARK & NORRIS CO	***1703 NW 16TH AVE***	***WNW 1/8 - 1/4 (0.214 mi.)***	***38***	***237***
Facility ID: 26-00-0877				
Facility ID: 26-00-5613				
Cleanup Complete: 04/04/2001				
Cleanup Complete: 09/27/2000				
HEATING OIL TANK	1107 NW 14TH AVENUE	SSW 1/8 - 1/4 (0.221 mi.)	I41	242
Facility ID: 26-03-0328				
Cleanup Complete: 04/22/2003				
HEATING OIL TANK	1631 NW THURMAN	WNW 1/8 - 1/4 (0.223 mi.)	42	243
Facility ID: 26-95-0278				
Cleanup Complete: 01/18/1996				
IERULLI	***1520 NW 17TH AVE***	***W 1/8 - 1/4 (0.232 mi.)***	***P46***	***279***
Facility ID: 26-04-1500				
Cleanup Complete: 12/06/2004				
FLOOR FACTORS INC	1320 NW 17TH AVE	WSW 1/8 - 1/4 (0.246 mi.)	L47	280

Facility ID: 26-07-0006 Cleanup Complete: 07/30/2008				
HEATING OIL TANK Facility ID: 26-14-1236 Cleanup Complete: 10/28/2014	1638 NW OVERTON ST	WSW 1/8 - 1/4 (0.250 mi.)	L49	281
PORTLAND DEVELOPMENT Facility ID: 26-02-1284 Cleanup Complete: 05/15/2003	1036 NW 9TH	SSE 1/8 - 1/4 (0.250 mi.)	M50	281
HEATING OIL TANK Facility ID: 26-06-1331 Cleanup Complete: 12/01/2006	1035 NW 14TH AVE	SSW 1/4 - 1/2 (0.254 mi.)	O53	287
LONG BUILDING Facility ID: 26-98-0968 Cleanup Complete: 03/23/2000	1602 NW NORTHRUP	SW 1/4 - 1/2 (0.263 mi.)	S55	306
HEATING OIL TANK Facility ID: 26-08-0097 Cleanup Complete: 02/25/2008	1121 NW 16TH AVE	SW 1/4 - 1/2 (0.271 mi.)	S57	330
S & H LEASING CO Facility ID: 26-99-1356 Cleanup Complete: 01/21/2000	***1725 NW QUIMBY ST***	***W 1/4 - 1/2 (0.273 mi.)***	***P59***	***374***
HUTCHESON, DON Facility ID: 26-90-0226 Cleanup Complete: 10/11/1990	***1732 NW QUIMBY ST***	***W 1/4 - 1/2 (0.280 mi.)***	***60***	***374***
HEATING OIL TANK Facility ID: 26-18-1270 Cleanup Complete: 12/04/2018	1111 NW 16TH AVE	SW 1/4 - 1/2 (0.280 mi.)	S61	375
HEATING OIL TANK Facility ID: 26-00-6445 Cleanup Complete: 04/03/2001	930 NW 14TH (INTERSE	SSW 1/4 - 1/2 (0.280 mi.)	U62	375
MCCLASKEY'S WINE DIS Facility ID: 26-91-0027 Cleanup Complete: 02/28/1991	***930 NW 14TH AVE***	***SSW 1/4 - 1/2 (0.280 mi.)***	***U63***	***375***
HEATING OIL TANK Facility ID: 26-95-0261 Cleanup Complete: 06/05/1996	1700 NW THURMAN ST	WNW 1/4 - 1/2 (0.287 mi.)	R65	389
MOVING SPACES LLC Facility ID: 26-08-0732 Cleanup Complete: 10/25/2010	1211 NW 17TH AVE	SW 1/4 - 1/2 (0.288 mi.)	S66	389
HEATING OIL TANK Facility ID: 26-15-0865 Cleanup Complete: 09/09/2015	1033-1039 NW 16TH AV	SW 1/4 - 1/2 (0.305 mi.)	W70	401
PRO TRUCK LINES Facility ID: 26-93-0140 Facility ID: 26-13-0214 Cleanup Complete: 07/23/2013 Cleanup Complete: 03/08/2013	***1721 NW NORTHRUP***	***WSW 1/4 - 1/2 (0.305 mi.)***	***X71***	***401***
HEATING OIL TANK Facility ID: 26-91-0163 Cleanup Complete: 04/27/1991	1900 NW 18TH AVE	WNW 1/4 - 1/2 (0.308 mi.)	72	402
HEATING OIL TANK	1714 NW NORTHROP	SW 1/4 - 1/2 (0.309 mi.)	X73	402

Facility ID: 26-97-0888 Cleanup Complete: 06/25/2015				
CHECKMASTER, INC. DB Facility ID: 26-91-0440 Cleanup Complete: 11/13/1996	***1020 NW 17TH***	***SW 1/4 - 1/2 (0.319 mi.)***	***W74***	***403***
MKC ENTERPRISES II Facility ID: 26-04-0514 Cleanup Complete: 01/18/2011	1832 NW RALEIGH ST	W 1/4 - 1/2 (0.320 mi.)	Y76	413
M K C ENTERPRISES IN Facility ID: 26-99-0155 Cleanup Complete: 04/09/2001	1832 NW RALEIGH ST	W 1/4 - 1/2 (0.320 mi.)	Y77	414
HEATING OIL TANK Facility ID: 26-05-1322 Cleanup Complete: 02/27/2006	1715 NW MARSHALL ST	SW 1/4 - 1/2 (0.322 mi.)	X79	421
HEATING OIL TANK Facility ID: 26-97-0006 Cleanup Complete: 03/18/1997	845 NW 9TH STREET	SSE 1/4 - 1/2 (0.325 mi.)	V82	428
HEATING OIL TANK Facility ID: 26-03-0277 Cleanup Complete: 06/02/2003	1526 NW 19TH	W 1/4 - 1/2 (0.327 mi.)	Y83	428
HEATING OIL TANK Facility ID: 26-16-1561 Cleanup Complete: 12/30/2016	1502 NW 19TH AVE	W 1/4 - 1/2 (0.329 mi.)	Y84	428
ARMORED TRANSPORT NW Facility ID: 26-88-0035 Cleanup Complete: 06/10/2002	***1015 NW 17TH AVE***	***SW 1/4 - 1/2 (0.346 mi.)***	***90***	***457***
OREGON STATE HWY PRO Facility ID: 26-88-0066 Cleanup Complete: 12/12/1988	NW 19TH & THURMAN	WNW 1/4 - 1/2 (0.347 mi.)	AC92	470
RADIO CAB CO Facility ID: 26-97-0661 Cleanup Complete: 12/15/2003	***1613 NW KEARNEY ST***	***SW 1/4 - 1/2 (0.362 mi.)***	***AE96***	***501***
1825 NW 19TH AVENUE Facility ID: 26-14-0255 Cleanup Complete: 08/20/2014	1825 NW 19TH AVE	WNW 1/4 - 1/2 (0.365 mi.)	AC97	503
HEATING OIL TANK Facility ID: 26-91-0243 Cleanup Complete: 05/28/2014	1313 NW 19TH	WSW 1/4 - 1/2 (0.367 mi.)	AF98	503
NORTH COAST CANVAS P Facility ID: 26-01-0040 Facility ID: 26-91-0217 Cleanup Complete: 12/02/2011 Cleanup Complete: 10/18/2000	***1235 NW 19TH AVE***	***WSW 1/4 - 1/2 (0.370 mi.)***	***AF99***	***503***
HYDRAULIC & AIR EQUI Facility ID: 26-91-0065 Cleanup Complete: 01/14/2002	***1925 NW QUIMBY ST***	***W 1/4 - 1/2 (0.372 mi.)***	***100***	***504***
HEATING OIL TANK Facility ID: 26-95-0279 Cleanup Complete: 10/09/1996	833 NW 16TH AVENUE	SSW 1/4 - 1/2 (0.373 mi.)	AE101	504
A-BOY ELECTRIC	***1919 NW 19TH AVE***	***WNW 1/4 - 1/2 (0.373 mi.)***	***AG102***	***505***

Facility ID: 26-96-0640 Cleanup Complete: 05/03/2002				
HEATING OIL TANK Facility ID: 26-01-8035 Cleanup Complete: 12/18/2001	1935 NW RALEIGH ST	W 1/4 - 1/2 (0.378 mi.)	AH103	505
HEATING OIL TANK Facility ID: 26-97-0147 Cleanup Complete: 07/16/1997	1112 NW 19TH AVE	WSW 1/4 - 1/2 (0.380 mi.)	105	517
HEATING OIL TANK Facility ID: 26-12-0799 Cleanup Complete: 02/11/2013	1901 NW NORTHRUP ST	WSW 1/4 - 1/2 (0.381 mi.)	AJ106	517
HEATING OIL TANK Facility ID: 26-97-0676 Facility ID: 26-87-0012 Cleanup Complete: 02/16/2006 Cleanup Complete: 08/17/1987	2001 NW 19TH	WNW 1/4 - 1/2 (0.384 mi.)	AG110	528
HEATING OIL TANK Facility ID: 26-07-1213 Cleanup Complete: 10/08/2007	1905 NW NORTHRUP ST	WSW 1/4 - 1/2 (0.386 mi.)	AJ111	529
CONSOLIDATED FREIGHT Facility ID: 26-00-5364 Facility ID: 26-92-0329 Cleanup Complete: 11/13/2003 Cleanup Complete: 06/24/1996	***1947 NW SAVIER ST***	***W 1/4 - 1/2 (0.393 mi.)***	***AH113***	***529***
RAPID TRANSFER Facility ID: 26-96-0635 Cleanup Complete: 01/29/1997	907 NW IRVING	SSE 1/4 - 1/2 (0.394 mi.)	AL114	530
HEATING OIL TANK Facility ID: 26-92-0068 Cleanup Complete: 11/29/1995	***715 NW HOYT STREET***	***SSE 1/4 - 1/2 (0.396 mi.)***	***AM116***	***530***
UNOCAL 0738 Facility ID: 26-88-0061 Cleanup Complete: 05/19/1993	***930 NW 18TH***	***SW 1/4 - 1/2 (0.397 mi.)***	***AN117***	***567***
INDUSTRIAL CATERING, Facility ID: 26-02-0006 Cleanup Complete: 08/28/2002	***1940 NW OVERTON ST.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***AF118***	***572***
HEINDRICKS MOTOR CO. Facility ID: 26-89-0095 Cleanup Complete: 08/04/1989	***1947 NW OVERTON***	***WSW 1/4 - 1/2 (0.399 mi.)***	***AF119***	***573***
HEATING OIL TANK Facility ID: 26-01-8034 Cleanup Complete: 12/18/2001	1955 NW RALEIGH	W 1/4 - 1/2 (0.399 mi.)	AH120	573
ALBINA OPERATIONS CE Facility ID: 26-91-0218 Cleanup Complete: 09/10/1993	***2126 N LEWIS AVE***	***NE 1/4 - 1/2 (0.401 mi.)***	***AI122***	***577***
HEATING OIL TANK Facility ID: 26-01-8036 Cleanup Complete: 04/01/2002	1965 NW RALEIGH ST	W 1/4 - 1/2 (0.408 mi.)	AH126	584
HEATING OIL TANK	630 NW 10TH	SSE 1/4 - 1/2 (0.425 mi.)	AL128	584

Facility ID: 26-00-5030 Cleanup Complete: 02/26/2004				
ENGINE-3 Facility ID: 26-92-0341 Cleanup Complete: 06/09/1995	***1715 NW JOHNSON ST***	***SW 1/4 - 1/2 (0.426 mi.)***	***129***	***585***
HEATING OIL TANK Facility ID: 26-89-0224 Cleanup Complete: 10/30/1989	1815 NW KEARNEY	SW 1/4 - 1/2 (0.427 mi.)	AN130	585
HEATING OIL TANK Facility ID: 26-01-6277 Cleanup Complete: 12/07/2001	1812 NW KEARNEY ST	SW 1/4 - 1/2 (0.434 mi.)	AN132	588
BONNIES HAMBURGERS Facility ID: 26-89-0112 Cleanup Complete: 06/15/1989	932 NW 19TH	SW 1/4 - 1/2 (0.434 mi.)	133	588
HEATING OIL TANK Facility ID: 26-94-0073 Cleanup Complete: 11/28/1994	1995 NW UPSHUR	WNW 1/4 - 1/2 (0.439 mi.)	134	589
HEATING OIL TANK Facility ID: 26-92-6009 Cleanup Complete: 05/03/1995	600 NW 14TH	SSW 1/4 - 1/2 (0.448 mi.)	AP135	589
FLEET MANAGEMENT REP Facility ID: 26-95-0298 Cleanup Complete: 10/02/1996	***1850 N INTERSTATE AV***	***ENE 1/4 - 1/2 (0.450 mi.)***	***136***	***589***
HEATING OIL TANK Facility ID: 26-92-0076	1204 NW 20TH	WSW 1/4 - 1/2 (0.452 mi.)	137	590
HEATING OIL TANK Facility ID: 26-03-2423 Cleanup Complete: 03/03/2004	535 NW 11TH AVENUE	S 1/4 - 1/2 (0.463 mi.)	138	590
HEATING OIL TANK Facility ID: 26-18-0100 Cleanup Complete: 04/10/2019	***1440 NW HOYT ST***	***SSW 1/4 - 1/2 (0.467 mi.)***	***AP139***	***590***
HEATING OIL TANK Facility ID: 26-20-0266 Cleanup Complete: 04/27/2020	1640 NW IRVING ST	SSW 1/4 - 1/2 (0.471 mi.)	AQ140	611
HEATING OIL TANK Facility ID: 26-14-1731 Cleanup Complete: 06/08/2015	829 NW 19TH AVE	SW 1/4 - 1/2 (0.476 mi.)	142	616
PREMIER PRESS Facility ID: 26-90-0180 Cleanup Complete: 08/11/1990	***510 NW 15TH***	***SSW 1/4 - 1/2 (0.483 mi.)***	***143***	***616***
BUILDERS APPLIANCE S Facility ID: 26-92-0342 Cleanup Complete: 02/05/1993	***2012 NW VAUGHN***	***WNW 1/4 - 1/2 (0.484 mi.)***	***AR144***	***642***
HEATING OIL TANK Facility ID: 26-17-0939 Cleanup Complete: 09/22/2017	2012 NW VAUGHN ST	WNW 1/4 - 1/2 (0.484 mi.)	AR145	643
HEATING OIL TANK Facility ID: 26-02-5706 Cleanup Complete: 05/20/2002	2025 NW OVERTON ST	WSW 1/4 - 1/2 (0.485 mi.)	AS146	643
PAC WEST GLASS, INC	***723 N TILLAMOOK***	***ENE 1/4 - 1/2 (0.487 mi.)***	***147***	***643***

Facility ID: 26-89-0080				
CONSOLIDATED FREIGHT Facility ID: 26-19-1116 Cleanup Complete: 05/20/2021	2050 NW RALEIGH STRE	W 1/4 - 1/2 (0.488 mi.)	148	644
CITY OF PORTLAND WAT Facility ID: 26-15-1541 Cleanup Complete: 09/08/2016	1900 N INTERSTATE AV	ENE 1/4 - 1/2 (0.488 mi.)	AT149	644
PORTLAND, CITY OF WA Facility ID: 26-92-0123 Cleanup Complete: 03/04/1997	1900 N INTERSTATE AV	ENE 1/4 - 1/2 (0.488 mi.)	AT150	644
TECHNI-GLASS Facility ID: 26-92-0349 Cleanup Complete: 07/20/1994	2221 N ALBINA	NE 1/4 - 1/2 (0.490 mi.)	152	645
HEATING OIL TANK Facility ID: 26-16-1366 Cleanup Complete: 06/27/2017	732 NW 19TH AVE	SW 1/4 - 1/2 (0.493 mi.)	AU154	664
HEATING OIL TANK Facility ID: 26-02-6043 Cleanup Complete: 06/27/2002	2034 NW OVERTON	WSW 1/4 - 1/2 (0.494 mi.)	AS155	664
C.G. CONSTRUCTION Facility ID: 26-13-1163	1801 NW IRVING ST	SW 1/4 - 1/2 (0.495 mi.)	AU156	665
HEATING OIL TANK Facility ID: 26-12-1545 Cleanup Complete: 09/30/2013	617 NW 17TH AVE	SSW 1/4 - 1/2 (0.499 mi.)	AQ157	665

Lower Elevation	Address	Direction / Distance	Map ID	Page
RIVIERA MOTORS INC Facility ID: 26-91-0423 Cleanup Complete: 08/29/2000	***1605 SW FRONT ST***	***NNE 0 - 1/8 (0.016 mi.)***	***A1***	***6***
HEATING OIL TANK Facility ID: 26-88-0099 Cleanup Complete: 12/01/1988	1811 NW FRONT	NW 0 - 1/8 (0.075 mi.)	E12	79
CENTENNIAL MILLS DIV Facility ID: 26-01-5648 Facility ID: 26-09-0689 Cleanup Complete: 11/20/2001 Cleanup Complete: 02/08/2010	***1362 NW NAITO PKWY***	***ESE 0 - 1/8 (0.108 mi.)***	***H21***	***140***
HEATING OIL TANK Facility ID: 26-90-0337 Cleanup Complete: 07/08/1991	1362 NW FRONT AVE	ESE 0 - 1/8 (0.108 mi.)	H22	160
9TH & LOVEJOY INFRAS Facility ID: 26-02-1285 Cleanup Complete: 05/15/2003	***800 NW MARSHALL***	***SE 1/8 - 1/4 (0.249 mi.)***	***N48***	***280***
RAPID TRANSFER CO. - Facility ID: 26-91-0269 Cleanup Complete: 08/26/1991	2030 NW 17TH AVE	NW 1/4 - 1/2 (0.253 mi.)	Q52	287
ALBER'S MILL PROPERT Facility ID: 26-88-0110 Cleanup Complete: 12/28/1988	1060 NW FRONT	ESE 1/4 - 1/2 (0.296 mi.)	T68	397
TFA, INC.	2090 NW FRONT	NW 1/4 - 1/2 (0.330 mi.)	AA85	429

Facility ID: 26-88-0082 Cleanup Complete: 11/01/1990				
K.F. JACOBSEN & CO., Facility ID: 26-98-1133	***1208 N RIVER ST***	***NNE 1/4 - 1/2 (0.346 mi.)***	***Z89***	***456***
LONESTAR NORTHWEST-R Facility ID: 26-89-0285 Cleanup Complete: 07/27/1999	1050 NORTH RIVER STR	NNE 1/4 - 1/2 (0.352 mi.)	AD95	501
HEATING OIL TANK Facility ID: 26-97-0931 Cleanup Complete: 03/19/1998	2200 NW FRONT	NW 1/4 - 1/2 (0.387 mi.)	112	529
SAKRETE OF PACIFIC N Facility ID: 26-90-0500 Cleanup Complete: 03/18/1992	***1402 N RIVER ST***	***N 1/4 - 1/2 (0.402 mi.)***	***123***	***577***
MATERIALS TEST LAB, Facility ID: 26-00-0469 Cleanup Complete: 07/12/2007	***1405 N RIVER ST***	***N 1/4 - 1/2 (0.422 mi.)***	***127***	***584***
UNION STATION - PTLD Facility ID: 26-00-0196 Facility ID: 26-90-0360 Cleanup Complete: 05/20/1992	***800 NW 6TH AVE***	***SE 1/4 - 1/2 (0.434 mi.)***	***131***	***586***

Lists of state and tribal registered storage tanks

OR UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's UST List on Disk.

A review of the OR UST list, as provided by EDR, and dated 10/01/2021 has revealed that there are 10 OR UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIRECT MAIL/MAIL MAR Facility ID: 5581	***1421 NW 14TH***	***WSW 0 - 1/8 (0.109 mi.)***	***F24***	***161***
PENSKE TRUCK LEASING Facility ID: 4719	***1325 NW 14TH AVE***	***SW 0 - 1/8 (0.124 mi.)***	***F25***	***161***
GENERAL DISTRIBUTOR Facility ID: 9398	***1509 NW SAVIER***	***WNW 1/8 - 1/4 (0.172 mi.)***	***31***	***181***
STARK & NORRIS CO Facility ID: 3880	***1703 NW 16TH AVE***	***WNW 1/8 - 1/4 (0.214 mi.)***	***38***	***237***
1323 NW 16TH AVE Facility ID: 12337	1323 NW 16TH AVE	WSW 1/8 - 1/4 (0.218 mi.)	L40	242
BURLINGTON NORTHERN Facility ID: 11506	1105 NW 9TH AVE	SSE 1/8 - 1/4 (0.228 mi.)	M43	243
IERULLI Facility ID: 9562	***1520 NW 17TH AVE***	***W 1/8 - 1/4 (0.232 mi.)***	***P46***	***279***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RIVIERA MOTORS INC	***1605 SW FRONT ST***	***NNE 0 - 1/8 (0.016 mi.)***	***A1***	***6***

Facility ID: 7636				
CENTENNIAL MILLS DIV Facility ID: 2855	***1362 NW NAITO PKWY***	***ESE 0 - 1/8 (0.108 mi.)***	***H21***	***140***
9TH & LOVEJOY INFRAS Facility ID: 12166	***800 NW MARSHALL***	***SE 1/8 - 1/4 (0.249 mi.)***	***N48***	***280***

OR AST: The Aboveground Storage Tank database contains registered ASTs. The data comes from the list of ASTs reported to the Office of State Fire Marshal.

A review of the OR AST list, as provided by EDR, and dated 10/25/2021 has revealed that there are 2 OR AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VXCHNGE-FACILITIES, Facility Id: 84582	1233 NW 12TH AVE	S 1/8 - 1/4 (0.129 mi.)	G26	162
VERIZON BUSINESS -OR Facility Id: 99520	***1335 NW NORTHRUP ST***	***SSW 1/8 - 1/4 (0.180 mi.)***	***I32***	***181***

State and tribal institutional control / engineering control registries

OR ENG CONTROLS: Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances.Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

A review of the OR ENG CONTROLS list, as provided by EDR, and dated 12/01/2021 has revealed that there are 10 OR ENG CONTROLS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOYT STREET RAILYARD Site Id: 6116	***1150 NW QUIMBY ST.***	***SSE 0 - 1/8 (0.043 mi.)***	***C5***	***26***
HOYT STREET RAILYARD Site Id: 6352	***1540 NW 13TH AVE.***	***WSW 0 - 1/8 (0.045 mi.)***	***D7***	***52***
HOYT STREET RAILYARD Site Id: 6103	***1620 NW 14TH AVE.***	***WNW 0 - 1/8 (0.084 mi.)***	***14***	***87***
HOYT STREET RAILYARD Site Id: 5867	***1315 NW 11TH AVE.***	***S 0 - 1/8 (0.088 mi.)***	***C15***	***109***
HOYT STREET RAILYARD Site Id: 5894	***1075 NW NORTHRUP ST.***	***S 1/8 - 1/4 (0.149 mi.)***	***29***	***163***
VERIZON BUSINESS -OR Site Id: 2313	***1335 NW NORTHRUP ST***	***SSW 1/8 - 1/4 (0.180 mi.)***	***I32***	***181***

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE ABIGAIL Site Id: 5856	***1650 NW 13TH AVE.***	***NW 0 - 1/8 (0.034 mi.)***	***B3***	***6***
HOYT ST. RAIL YARD -	***EAST OF NW 11TH AVE.***	***SE 0 - 1/8 (0.098 mi.)***	***17***	***126***

Site Id: 5443

UNION STATION PARCEL Site Id: 1962	***1207 NW NAITO PKWY.***	***SE 1/8 - 1/4 (0.206 mi.)***	***K35***	***205***
HOYT STREET RAILYARD Site Id: 1080	***NORTH OF LOVEJOY BTW***	***SE 1/8 - 1/4 (0.230 mi.)***	***N44***	***243***

OR INST CONTROL: Sites with Engineering or Institutional Controls.

A review of the OR INST CONTROL list, as provided by EDR, and dated 12/01/2021 has revealed that there are 9 OR INST CONTROL sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOYT STREET RAILYARD Site Id: 6116	***1150 NW QUIMBY ST.***	***SSE 0 - 1/8 (0.043 mi.)***	***C5***	***26***
HOYT STREET RAILYARD Site Id: 6352	***1540 NW 13TH AVE.***	***WSW 0 - 1/8 (0.045 mi.)***	***D7***	***52***
HOYT STREET RAILYARD Site Id: 6103	***1620 NW 14TH AVE.***	***WNW 0 - 1/8 (0.084 mi.)***	***14***	***87***
HOYT STREET RAILYARD Site Id: 5867	***1315 NW 11TH AVE.***	***S 0 - 1/8 (0.088 mi.)***	***C15***	***109***
HOYT STREET RAILYARD Site Id: 5894	***1075 NW NORTHRUP ST.***	***S 1/8 - 1/4 (0.149 mi.)***	***29***	***163***
VERIZON BUSINESS -OR Site Id: 2313	***1335 NW NORTHRUP ST***	***SSW 1/8 - 1/4 (0.180 mi.)***	***I32***	***181***

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE ABIGAIL Site Id: 5856	***1650 NW 13TH AVE.***	***NW 0 - 1/8 (0.034 mi.)***	***B3***	***6***
HOYT ST. RAIL YARD - Site Id: 5443	***EAST OF NW 11TH AVE.***	***SE 0 - 1/8 (0.098 mi.)***	***17***	***126***
HOYT STREET RAILYARD Site Id: 1080	***NORTH OF LOVEJOY BTW***	***SE 1/8 - 1/4 (0.230 mi.)***	***N44***	***243***

Lists of state and tribal voluntary cleanup sites

OR VCP: Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

A review of the OR VCP list, as provided by EDR, and dated 01/05/2022 has revealed that there are 37 OR VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOYT STREET RAILYARD Action: Institutional Control Action: No Further Action (Conditional)	***1150 NW QUIMBY ST.***	***SSE 0 - 1/8 (0.043 mi.)***	***C5***	***26***

Action: SITE EVALUATION
Action: Engineering Control
Action: REMOVAL
**Additional key fields are available in the Map Findings section*
ECS Site ID: 6116
Facility Size: 0.92 acres

HOYT STREET RAILYARD ***1540 NW 13TH AVE.*** ***WSW 0 - 1/8 (0.045 mi.)*** ***D7*** ***52***
Action: SITE INVESTIGATION
Action: PRELIMINARY ASSESSMENT EQUIVALENT
ECS Site ID: 6352
Facility Size: 1.32 acres

HOYT STREET RAILYARD ***NORTHEAST OF NW SAVI*** ***NW 0 - 1/8 (0.080 mi.)*** ***E13*** ***80***
Action: SITE EVALUATION
ECS Site ID: 6162

HOYT STREET RAILYARD ***1620 NW 14TH AVE.*** ***WNW 0 - 1/8 (0.084 mi.)*** ***14*** ***87***
Action: REMOVAL ASSESSMENT
Action: No Further Action (Conditional)
Action: REMOVAL
Action: NEGOTIATIONS
Action: Institutional Control
**Additional key fields are available in the Map Findings section*
ECS Site ID: 6103
Facility Size: 0.23 acres

HOYT STREET RAILYARD ***1315 NW 11TH AVE.*** ***S 0 - 1/8 (0.088 mi.)*** ***C15*** ***109***
Action: No Further Action (Conditional)
Action: Institutional Control
Action: INDEPENDENT CLEANUP
ECS Site ID: 5867
Facility Size: 0.92 acres

HOYT STREET RAILYARD ***1075 NW NORTHRUP ST.*** ***S 1/8 - 1/4 (0.149 mi.)*** ***29*** ***163***
Action: INDEPENDENT CLEANUP
Action: No Further Action (Conditional)
ECS Site ID: 5894
Facility Size: 0.92 acres

VERIZON BUSINESS -OR ***1335 NW NORTHRUP ST*** ***SSW 1/8 - 1/4 (0.180 mi.)*** ***I32*** ***181***
Action: Institutional Control
Action: Site added to database
Action: RECORD OF DECISION
Action: No Further Action (Conditional)
Action: Site Screening recommended (EV)
**Additional key fields are available in the Map Findings section*
ECS Site ID: 2313
Facility Size: 0.92 acres

HEATING OIL TANK ***1220 NW MARSHALL ST*** ***S 1/8 - 1/4 (0.214 mi.)*** ***J37*** ***229***
Action: Independent Cleanup Program
Action: VCS Waiting List
Action: NO FURTHER STATE ACTION REQUIRED
ECS Site ID: 1331
Facility Size: 0.92 acres

NW 16TH STORAGE, LLC ***1323 NW 16TH AVE.*** ***WSW 1/8 - 1/4 (0.218 mi.)*** ***L39*** ***238***
Action: REMEDIAL INVESTIGATION
Action: NO FURTHER STATE ACTION REQUIRED

ECS Site ID: 5120

PREMIER GEAR ***1715 NW 17TH AVE.*** ***WNW 1/4 - 1/2 (0.257 mi.)*** ***R54*** ***288***
Action: SITE INVESTIGATION
Action: No Further Action (Conditional)
Action: VCS Waiting List
Action: REMOVAL
Action: Institutional Control
ECS Site ID: 6329
Facility Size: 0.91 acres

HOYT STREET RAILYARD ***900 NW LOVEJOY ST.*** ***SSE 1/4 - 1/2 (0.289 mi.)*** ***V67*** ***390***
Action: No Further Action (Conditional)
Action: Facility placed on Confirmed Release List
Action: Facility proposed for Confirmed Release List
Action: Facility proposed for Inventory
Action: Facility placed on Inventory
ECS Site ID: 4960
Facility Size: 1.17 acres

HOYT STREET RAILYARD ***920 NW KEARNEY ST.*** ***SSE 1/4 - 1/2 (0.320 mi.)*** ***V75*** ***403***
Action: Closeout activities on completed project
Action: Certification of Completion
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Action: NO FURTHER STATE ACTION REQUIRED
ECS Site ID: 1624
Facility Size: 0.94 acres

ABANDONED TANNER CRE ***NW 9TH AVE. FROM NW*** ***SSE 1/4 - 1/2 (0.324 mi.)*** ***80*** ***421***
Action: SITE INVESTIGATION
Action: Site Investigation recommended (SI)
Action: REMEDIAL DESIGN
ECS Site ID: 5328

NORTH 18 APARTMENTS ***1784 NW NORTHRUP STR*** ***WSW 1/4 - 1/2 (0.325 mi.)*** ***X81*** ***426***
Action: SITE EVALUATION
Action: BASIC PRELIMINARY ASSESSEMENT
ECS Site ID: 6488
Facility Size: 0.46

PACIFIC STATES GALVA ***820 NW 15TH AVE.*** ***SSW 1/4 - 1/2 (0.351 mi.)*** ***AB93*** ***470***
Action: Proposal for Inventory recommended
Action: VCS Waiting List
Action: Listing Review completed
Action: Facility proposed for Inventory
Action: Facility proposed for Confirmed Release List
**Additional key fields are available in the Map Findings section*
ECS Site ID: 1024
Facility Size: 0.94 acres

TUCKER BUILDING ***2110 N LEWIS AVE*** ***NE 1/4 - 1/2 (0.380 mi.)*** ***AI104*** ***506***
Action: Site Screening recommended (EV)
Action: REMEDIAL INVESTIGATION
Action: FEASIBILITY STUDY
Action: Engineering Control
Action: Letter Agreement
**Additional key fields are available in the Map Findings section*
ECS Site ID: 3036
Facility Size: 0.92 acre

HEATING OIL TANK ***715 NW HOYT STREET*** ***SSE 1/4 - 1/2 (0.396 mi.)*** ***AM116*** ***530***

Action: FEASIBILITY STUDY
Action: Prospective Purchaser Agreement
Action: Engineering Control
Action: REMEDIAL DESIGN
Action: Institutional Control
Additional key fields are available in the Map Findings section
ECS Site ID: 2183
Facility Size: 13.37 acres

UNOCAL 0738 | ***930 NW 18TH*** | ***SW 1/4 - 1/2 (0.397 mi.)*** | ***AN117*** | ***567***
Action: Letter Agreement
Action: NO FURTHER STATE ACTION REQUIRED
ECS Site ID: 1396

BSS ALBINA | ***2100 N. ALBINA STREE*** | ***ENE 1/4 - 1/2 (0.401 mi.)*** | ***121*** | ***574***
Action: SITE INVESTIGATION
Action: Source Control Evaluation
ECS Site ID: 6287
Facility Size: 1.78 acres

HEATING OIL TANK | ***1440 NW HOYT ST*** | ***SSW 1/4 - 1/2 (0.467 mi.)*** | ***AP139*** | ***590***
Action: REMOVAL
Action: NO FURTHER STATE ACTION REQUIRED
Action: VCS Waiting List
Action: SITE INVESTIGATION
Action: Insufficient information to list
Additional key fields are available in the Map Findings section
ECS Site ID: 6224
Facility Size: 0.80 acres

VALVOLINE | ***2308 N CLARK AVE.*** | ***NE 1/4 - 1/2 (0.472 mi.)*** | ***141*** | ***612***
Action: Letter Agreement
Action: NO FURTHER STATE ACTION REQUIRED
Action: SITE INVESTIGATION
ECS Site ID: 3215
Facility Size: 0.66 acre

Lower Elevation	Address	Direction / Distance	Map ID	Page

THE ABIGAIL | ***1650 NW 13TH AVE.*** | ***NW 0 - 1/8 (0.034 mi.)*** | ***B3*** | ***6***
Action: No Further Action (Conditional)
Action: Institutional Control
Action: Engineering Control
Action: OPERATION & MAINTENANCE
Action: INDEPENDENT CLEANUP
ECS Site ID: 5856
Facility Size: 0.92 acres

FREMONT PLACE | ***1650 NW NAITO PARKWA*** | ***NNW 0 - 1/8 (0.044 mi.)*** | ***6*** | ***51***
Action: SITE INVESTIGATION
ECS Site ID: 6403

HOYT ST. RAIL YARD - | ***EAST OF NW 11TH AVE.*** | ***SE 0 - 1/8 (0.098 mi.)*** | ***17*** | ***126***
Action: No Further Action (Conditional)
Action: Periodic Review
Action: Institutional Control
Action: REMEDIAL ACTION
ECS Site ID: 5443
Facility Size: 3.3 acres

CENTENNIAL MILLS DIV | ***1362 NW NAITO PKWY*** | ***ESE 0 - 1/8 (0.108 mi.)*** | ***H21*** | ***140***

Action: RECORD OF DECISION
Action: Source Control Evaluation
Action: REMEDIAL DESIGN
Action: FEASIBILITY STUDY
Action: Source Control Decision
**Additional key fields are available in the Map Findings section*
ECS Site ID: 5136
Facility Size: 4.75 acres

STATION PLACE - LOT ***1250 NW 9TH AVE.*** ***SE 1/8 - 1/4 (0.155 mi.)*** ***30*** ***179***
Action: Remedial Action recommended (RA)
ECS Site ID: 6455
Facility Size: 0.80 acres

UNION STATION PARCEL ***1207 NW NAITO PKWY.*** ***SE 1/8 - 1/4 (0.206 mi.)*** ***K35*** ***205***
Action: Facility proposed for Inventory
Action: REMEDIAL INVESTIGATION
Action: Engineering Control
Action: VCS Waiting List
Action: Institutional Control
**Additional key fields are available in the Map Findings section*
ECS Site ID: 1962

HOYT STREET RAILYARD ***NORTH OF LOVEJOY BTW*** ***SE 1/8 - 1/4 (0.230 mi.)*** ***N44*** ***243***
Action: NEGOTIATIONS
Action: VCS Waiting List
ECS Site ID: 1080
Facility Size: 26 acres

RAPID TRANSFER CO. (***2030 NW 17TH AVE.*** ***NW 1/4 - 1/2 (0.253 mi.)*** ***Q51*** ***281***
Action: VCS Waiting List
Action: NO FURTHER STATE ACTION REQUIRED
Action: Source Control Evaluation
Action: REMOVAL
Action: SITE EVALUATION
ECS Site ID: 5870
Facility Size: 2.10 acres

WATERFRONT PEARL CON ***1118 NW FRONT AVE.*** ***ESE 1/4 - 1/2 (0.268 mi.)*** ***T56*** ***307***
Action: NO FURTHER STATE ACTION REQUIRED
ECS Site ID: 4535
Facility Size: 2.4 acres

STATION PLACE REDEVE ***1020 & 1150 NW 9TH A*** ***SE 1/4 - 1/2 (0.272 mi.)*** ***58*** ***331***
Action: FEASIBILITY STUDY
Action: Facility proposed for Confirmed Release List
Action: No Further Action (Conditional)
Action: Partial No Further Action
Action: Beneficial Water Use Assessment
**Additional key fields are available in the Map Findings section*
ECS Site ID: 2407
Facility Size: 6.3 acres

PACIFICORP ALBINA RI ***LOTS NEAR BASE OF TH*** ***NNE 1/4 - 1/2 (0.322 mi.)*** ***Z78*** ***414***
Action: REMOVAL
Action: BASIC PRELIMINARY ASSESSEMENT
Action: SITE EVALUATION
Action: Source Control Evaluation
Action: Source Control Decision
ECS Site ID: 5117

RIVERNORTH ***2100 NW FRONT AVE*** ***NW 1/4 - 1/2 (0.334 mi.)*** ***AA86*** ***429***

Action: Institutional Control
Action: Facility proposed for Inventory
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Action: REMEDIAL INVESTIGATION
Action: Proposal for Inventory recommended
**Additional key fields are available in the Map Findings section*
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres

GLACIER NORTHWEST IN	***1050 N RIVER ST***	***NNE 1/4 - 1/2 (0.352 mi.)***	***AD94***	***495***

Action: Source Control Evaluation
ECS Site ID: 5449
Facility Size: Approx. 5.1 acres

CARGILL INCORPORATED	***800 N RIVER ST.***	***E 1/4 - 1/2 (0.383 mi.)***	***109***	***522***

Action: Source Control Decision
Action: SITE INVESTIGATION
Action: Source Control Evaluation
ECS Site ID: 5561

UNION STATION - PTLD	***800 NW 6TH AVE***	***SE 1/4 - 1/2 (0.434 mi.)***	***131***	***586***

Action: SITE INVESTIGATION
ECS Site ID: 5915
Facility Size: 8.42 acres

RIVER DISTRICT BLOCK	***BLOCK BOUNDED BY NW***	***SE 1/4 - 1/2 (0.492 mi.)***	***153***	***646***

Action: Independent Cleanup Program
Action: VCS Waiting List
Action: INDEPENDENT CLEANUP
Action: Institutional Control
Action: No Further Action (Conditional)
**Additional key fields are available in the Map Findings section*
ECS Site ID: 3102

Lists of state and tribal brownfield sites

Brownfields investigations and/or cleanups that have been conducted in Oregon.

A review of the OR BROWNFIELDS list, as provided by EDR, and dated 11/01/2021 has revealed that there are 8 OR BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOYT STREET RAILYARD	***1620 NW 14TH AVE.***	***WNW 0 - 1/8 (0.084 mi.)***	***14***	***87***

Status: No Further Action (Conditional)
envid: 6103

HOYT STREET RAILYARD	***920 NW KEARNEY ST.***	***SSE 1/4 - 1/2 (0.320 mi.)***	***V75***	***403***

Status: NO FURTHER STATE ACTION REQUIRED
envid: 1624

HEATING OIL TANK	***715 NW HOYT STREET***	***SSE 1/4 - 1/2 (0.396 mi.)***	***AM116***	***530***

Status: REMEDIAL ACTION
envid: 2183

VALVOLINE	***2308 N CLARK AVE.***	***NE 1/4 - 1/2 (0.472 mi.)***	***141***	***612***

Status: NO FURTHER STATE ACTION REQUIRED

envid: 3215

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOYT ST. RAIL YARD - Status: No Further Action (Conditional) envid: 5443	***EAST OF NW 11TH AVE.***	***SE 0 - 1/8 (0.098 mi.)***	***17***	***126***
UNION STATION PARCEL Status: Partial No Further Action envid: 1962	***1207 NW NAITO PKWY.***	***SE 1/8 - 1/4 (0.206 mi.)***	***K35***	***205***
HOYT STREET RAILYARD Status: REMEDIAL ACTION envid: 1080	***NORTH OF LOVEJOY BTW***	***SE 1/8 - 1/4 (0.230 mi.)***	***N44***	***243***
STATION PLACE REDEVE Status: No Further Action (Conditional) envid: 2407	***1020 & 1150 NW 9TH A***	***SE 1/4 - 1/2 (0.272 mi.)***	***58***	***331***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 4 EDR MGP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NW PORTLAND MGP	715 NW HOYT ST	SSE 1/4 - 1/2 (0.396 mi.)	AM115	530
PORTLAND GAS CO	NW DAVIS STREET	S 1/2 - 1 (0.668 mi.)	158	665

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORTLAND GAS MANUFAC	NW EVERETT,GLISAN,2N	SE 1/2 - 1 (0.720 mi.)	159	666
PORTLAND GAS CO	1ST ST N,EVERETT,FRO	SE 1/2 - 1 (0.795 mi.)	160	666

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk

Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 5 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ADAMSON MARK	1667 NW 13TH ST	NW 0 - 1/8 (0.046 mi.)	B8	66
GERLING FRED C	1312 NW RALEIGH	W 0 - 1/8 (0.049 mi.)	B9	66
BARNEY S REPAIR	1420 NW PETTYGROVE S	SW 0 - 1/8 (0.104 mi.)	F19	140
HAMILTON TEST SYSTEM	1421 NW 14TH AVE	WSW 0 - 1/8 (0.109 mi.)	F23	160
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WESTERN STATIONS CO	1466 NW FRONT AVE	ENE 0 - 1/8 (0.023 mi.)	A2	6

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

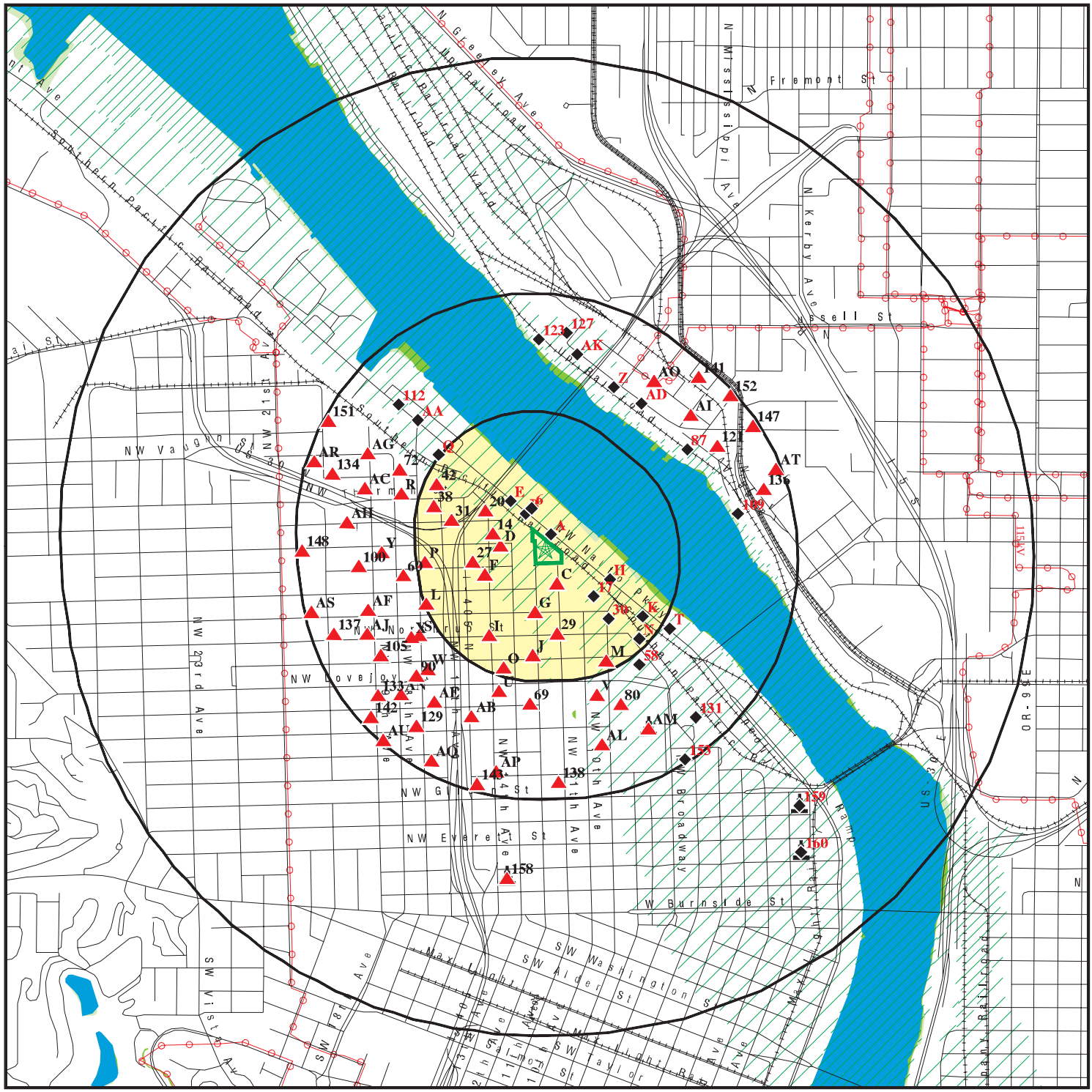
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTHWEST LAUNDRY MA	1301 NW 12TH AVE	S 0 - 1/8 (0.102 mi.)	G18	140
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
GANNON GEO T	1733 SW FRONT AVE	NNW 0 - 1/8 (0.036 mi.)	B4	26

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 18 records.

Site Name	Database(s)
TRI-MET SOUTH CORRIDOR EXTENSION	OR ECSI, OR VCP
BLOCK 25	OR ECSI, OR VCP
COLUMBIA SLOUGH	OR ECSI, OR CRL, OR ENG CONTROLS
EAST SIDE CSO	OR ECSI, OR VCP
V.A.- COLUMBIA SOUTH SHORE WELLFIE	OR ECSI
WILLAMETTE RIVER DOWNTOWN REACH	OR ECSI
ODOT - RIVER STREET (PORTLAND)	OR ECSI
BLOCK 294 WEST	OR ECSI
WILLAMETTE RIVER WESTSIDE CSO CONS	OR ECSI, OR VCP
WILLAMETTE SEDIMENT SAMPLING PROJE	SEMS
HEATING OIL TANK	OR LUST
PARK BLOCK #5	OR LUST
HEATING OIL TANK	OR LUST
KANDELL KNITTING MILLS	OR LUST
HEATING OIL TANK	OR LUST
HEATING OIL TANK	OR LUST
GREYHOUND TANKS	OR LUST
HEATING OIL TANK	OR LUST

OVERVIEW MAP - 6942616.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

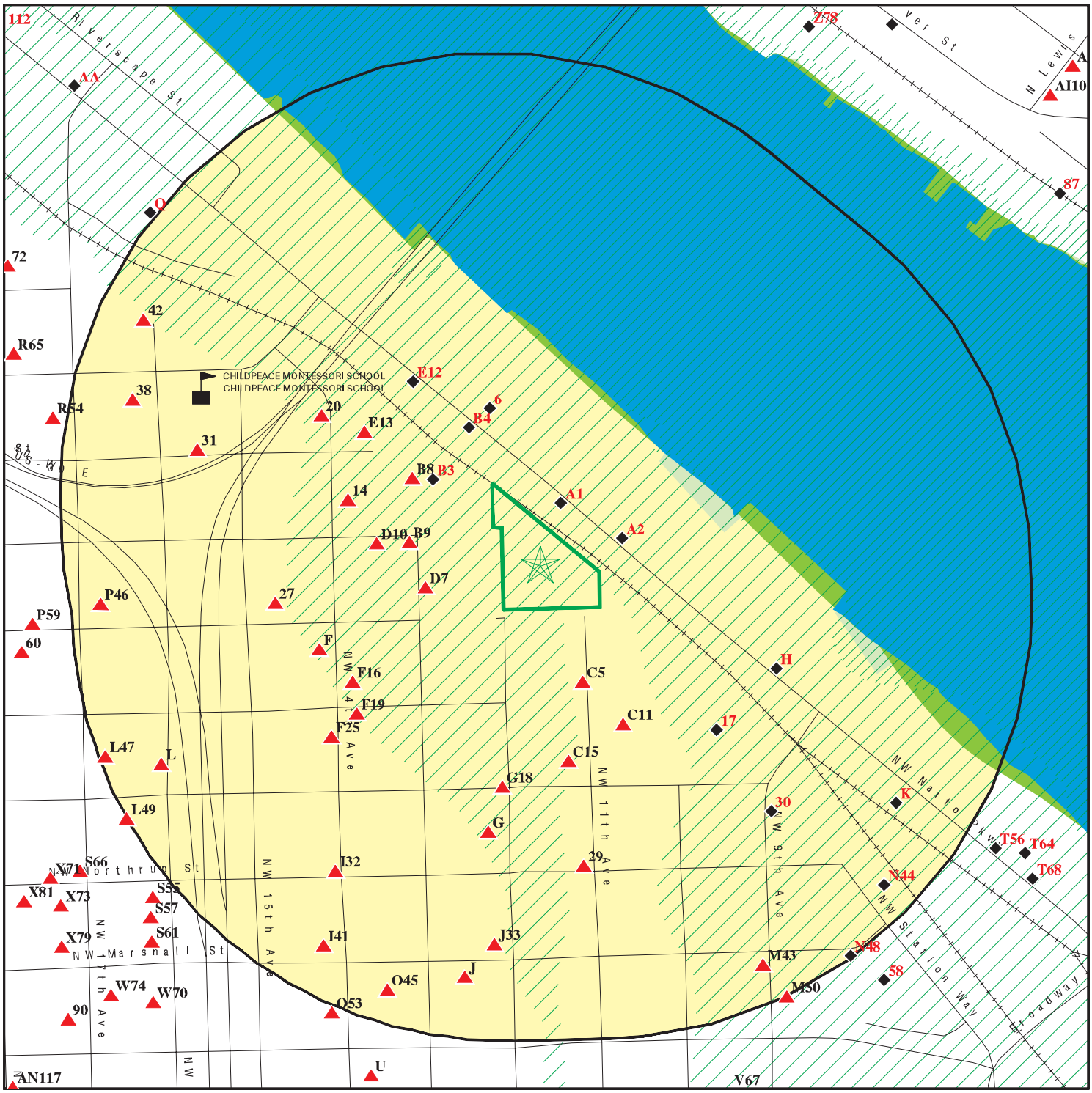
State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Block 24 - Former Hoyt Street Railyard	CLIENT:	NV5
ADDRESS:	NW 12th Avenue and NW Quimby Street Portland OR 97209	CONTACT:	Connor Ellis
LAT/LONG:	45.534094 / 122.683103	INQUIRY #:	6942616.2s
		DATE:	April 15, 2022 1:17 pm

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DETAIL MAP - 6942616.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Block 24 - Former Hoyt Street Railyard	CLIENT:	NV5
ADDRESS:	NW 12th Avenue and NW Quimby Street Portland OR 97209	CONTACT:	Connor Ellis
LAT/LONG:	45.534094 / 122.683103	INQUIRY #:	6942616.2s
		DATE:	April 15, 2022 1:17 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	0.500		0	0	0	NR	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	1	2	NR	NR	3
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	2	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		TP	NR	NR	NR	NR	NR	0
US INST CONTROLS		TP	NR	NR	NR	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
OR CRL	0.500		1	3	6	NR	NR	10
OR ECSI	0.500		9	7	27	NR	NR	43
Lists of state and tribal landfills and solid waste disposal facilities								
OR SWF/LF	0.500		0	0	0	NR	NR	0
WA SWF/LF	0.500		0	0	1	NR	NR	1
Lists of state and tribal leaking storage tanks								
OR LUST	0.500		10	13	79	NR	NR	102

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
OR UST	0.250		4	6	NR	NR	NR	10
OR AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
OR ENG CONTROLS	0.250		6	4	NR	NR	NR	10
OR INST CONTROL	0.250		6	3	NR	NR	NR	9
Lists of state and tribal voluntary cleanup sites								
OR VCP	0.500		9	7	21	NR	NR	37
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
OR BROWNFIELDS	0.500		2	2	4	NR	NR	8
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	TP		NR	NR	NR	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
OR AQUEOUS FOAM	0.500		0	0	0	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	TP		NR	NR	NR	NR	NR	0
SCRD DRYCLEANERS	TP		NR	NR	NR	NR	NR	0
US MINES	TP		NR	NR	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
OR DRYCLEANERS	0.125		0	NR	NR	NR	NR	0
OR UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	1	3	NR	4
EDR Hist Auto	0.125		5	NR	NR	NR	NR	5
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
- Totals --		0	54	50	142	3	0	249

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **RIVIERA MOTORS INC** **OR LUST** **U000432090**
NNE **1605 SW FRONT ST** **OR UST** **N/A**
< 1/8 **PORTLAND, OR 97201**
0.016 mi.
86 ft. **Site 1 of 2 in cluster A**

Relative: **Lower**

Actual: **34 ft.**

LUST:

Name:	RIVIERA MOTORS PLAZA
Address:	1605 SW FRONT AVE
City,State,Zip:	PORTLAND, OR 97201
Region:	North Western Region
Facility ID:	26-91-0423
Cleanup Received Date:	10/18/1991
Cleanup Start Date:	09/10/1991
Cleanup Complete Date:	**08/29/2000**
Decode for Region:	**North West Region**

UST:

Name:	RIVIERA MOTORS INC
Address:	1605 SW FRONT ST
City:	PORTLAND
Facility ID:	7636
Facility Telephone:	(503)226-3831
Permittee Name:	JOSEPH E MARUIN, SERVICE MANAGER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	3
Number of Tanks:	3

A2 **WESTERN STATIONS CO** **EDR Hist Auto** **1020318119**
ENE **1466 NW FRONT AVE** **N/A**
< 1/8 **PORTLAND, OR 97209**
0.023 mi.
122 ft. **Site 2 of 2 in cluster A**

Relative: **Lower**

Actual: **34 ft.**

EDR Hist Auto

Year:	Name:	Type:
1986	WESTERN STATIONS CO*	Gasoline Service Stations
1987	WESTERN STATIONS MGT SVCS CORP	Not reported
1987	WESTERN STATIONS CO*	Gasoline Service Stations
1988	WESTERN STATIONS CO	Gasoline Service Stations
1989	WESTERN STATIONS CO	Gasoline Service Stations, NEC
1990	WESTERN STATIONS CO	Gasoline Service Stations, NEC
1991	WESTERN STATIONS CO	Gasoline Service Stations, NEC
1992	WESTERN STATIONS CO	Gasoline Service Stations, NEC

B3 **THE ABIGAIL** **OR ECSI** **S119162010**
NW **1650 NW 13TH AVE.** **OR ENG CONTROLS** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR INST CONTROL**
0.034 mi. **OR VCP**
182 ft. **Site 1 of 4 in cluster B**

Relative: **Lower**

Actual: **35 ft.**

ECSI:

Name:	THE ABIGAIL
Address:	1650 NW 13TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5856

THE ABIGAIL (Continued) **S119162010**

Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: No Further Action
FACA ID: 130275
Further Action: 0
Lat/Long (dms): 45 32 4.60 / -122 41 2.40
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 28
Qtr Section: DD
Tax Lots: 710
Size: 0.92 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 06/23/2017
Created Date: 11/18/2013
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Hoyt Street Railyard - Block 27
Alias Name: BRIDGE Housing
Alias Name: Abigail Apartments

Hazardous Release:
Substance ID.: 121639
Haz Release ID: 388292
Qty Released: unknown
Date Released: unknown
Update Date: 05/02/2016
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305742
Release Code: Media Contamination Footnote

THE ABIGAIL (Continued) **S119162010**

Release Comments: Highest concentrations detected in Test Pit 27A
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305743
Release Code: Data Sources
Release Comments: December 1998 EMCON Supplemental Soil Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350823
Feature Id: 0
Hazard Release Id: 388292
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 10/08/1998
End Date: 10/08/1998
Min Concentration: Not reported
Max Concentration: 1300.00
Sample Comment: up to 1,300 ppm
Last Update By: KDANA
Update Date: 05/02/2016
Decode for MediumID: Soil
Sampling Result ID: 350824
Feature Id: 0
Hazard Release Id: 388292
Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 10/08/1998
End Date: 10/08/1998
Min Concentration: Not reported
Max Concentration: 2.70
Sample Comment: up to 2.7 mg/L
Last Update By: KDANA
Update Date: 05/02/2016
Decode for MediumID: Leachate

Substance ID.: 121989
Haz Release ID: 388339
Qty Released: unknown
Date Released: unknown
Update Date: 12/28/2016
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

THE ABIGAIL (Continued) **S119162010**

Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305802
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in soil sample SS09
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305813
Release Code: Data Sources
Release Comments: October 2015 GeoDesign Construction Completion Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350926
Feature Id: 0
Hazard Release Id: 388339
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 14 ft bgs
Start Date: 12/02/2014
End Date: 12/02/2014
Min Concentration: Not reported
Max Concentration: 7310.00
Sample Comment: up to 7,310 ppm
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 388340
Qty Released: unknown
Date Released: unknown
Update Date: 12/28/2016
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305801
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305812
Release Code: Data Sources

THE ABIGAIL (Continued) **S119162010**

Release Comments: June 2013 GeoDesign Report of Due Diligence Environmental Services
Decode for Relcomcd: Data Sources
Sampling Result ID: 350919
Feature Id: 0
Hazard Release Id: 388340
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-6 ft bgs
Start Date: 05/21/2013
End Date: 05/21/2013
Min Concentration: Not reported
Max Concentration: 1670.00
Sample Comment: up to 1,670 ppm
Last Update By: KDANA
Update Date: 12/28/2016
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 388345
Qty Released: unknown
Date Released: unknown
Update Date: 03/01/2017
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305814
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in composite sample location C

THE ABIGAIL (Continued) **S119162010**

Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305815
Release Code: Data Sources
Release Comments: July 2014 GeoDesign Revised CMMP
Decode for Relcomcd: Data Sources
Sampling Result ID: 350927
Feature Id: 0
Hazard Release Id: 388345
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6-9 ft bgs
Start Date: 10/31/2013
End Date: 10/31/2013
Min Concentration: Not reported
Max Concentration: 1.99
Sample Comment: up to 1.99 ppm
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388346
Qty Released: unknown
Date Released: unknown
Update Date: 03/01/2017
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305816
Release Code: Data Sources
Release Comments: July 2014 GeoDesign Revised CMMP
Decode for Relcomcd: Data Sources
Comment ID: 305817
Release Code: Media Contamination Footnote

THE ABIGAIL (Continued) **S119162010**

Release Comments: Highest concentration detected in composite sample location C
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350928
Feature Id: 0
Hazard Release Id: 388346
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6-9 ft bgs
Start Date: 10/31/2013
End Date: 10/31/2013
Min Concentration: Not reported
Max Concentration: 2.07
Sample Comment: up to 2.07 ppm
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388347
Qty Released: unknown
Date Released: unknown
Update Date: 03/01/2017
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 305818
Release Code: Data Sources
Release Comments: July 2014 GeoDesign Revised CMMP
Decode for Relcomcd: Data Sources
Comment ID: 305819
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in composite sample location C
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350929

THE ABIGAIL (Continued) **S119162010**

Feature Id: 0
Hazard Release Id: 388347
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6-9 ft bgs
Start Date: 10/31/2013
End Date: 10/31/2013
Min Concentration: Not reported
Max Concentration: .23
Sample Comment: up to 0.232 ppm
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388348
Qty Released: unknown
Date Released: unknown
Update Date: 03/01/2017
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 305820
Release Code: Data Sources
Release Comments: July 2014 GeoDesign Revised CMMP
Decode for Relcomcd: Data Sources
Comment ID: 305821
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in composite sample location C
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350930
Feature Id: 0
Hazard Release Id: 388348
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False

THE ABIGAIL (Continued) **S119162010**

Lab Data: True
Sample Depth: 6-9 ft bgs
Start Date: 10/31/2013
End Date: 10/31/2013
Min Concentration: Not reported
Max Concentration: 1.05
Sample Comment: up to 1.05 ppm
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Soil

Substance ID.: 121623
Haz Release ID: 388349
Qty Released: unknown
Date Released: unknown
Update Date: 03/01/2017
Update By: KDANA
Substance Code: 74-82-8
Substance Name: METHANE
Substance Abbrev.: Not reported
Comment ID: 305822
Release Code: Data Sources
Release Comments: September 2014 GeoDesign Methane Investigation Memo
Decode for Relcomcd: Data Sources
Comment ID: 305823
Release Code: Media Contamination Footnote
Release Comments: Other medium = soil gas
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350931
Feature Id: 0
Hazard Release Id: 388349
Medium: 700
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: True
Lab Data: False
Sample Depth: 7.5 ft bgs
Start Date: 08/25/2014
End Date: 08/25/2014
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 53.8 pbv
Last Update By: KDANA
Update Date: 03/01/2017
Decode for MediumID: Other

Narrative:
NARR ID: 5755512
NARR Code: Contamination
Created By: CHARMAN
Created Date: 01/07/2015
Updated By: KDANA
Updated Date: 02/01/2018
Decode for NarcdID: Contamination
NARR Comments: (03/31/2017 KPD/ICP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from four test pits at the site in October 1998 and were

THE ABIGAIL (Continued) **S119162010**

analyzed for diesel, oil and lead, finding up to 210 ppm diesel, 500 ppm lube oil, and 1,300 ppm lead. A site-specific investigation was conducted in May 2013 when soil samples were collected from 17 borings advanced in a grid pattern across the site. Diesel (up to 1,670 ppm), heavy oils (up to 5,830 ppm), and lead (up to 277 ppm) were detected, along with PAHs. In October 2013 composite soil samples were collected from 3-foot intervals (0-3 ft, 3-6 ft, etc) down to 12 ft bgs in each quarter of the site. Diesel (up to 599 ppm), heavy oils (up to 3,460 ppm), and lead (up to 265 ppm) were detected. PAHs were also detected, with the highest concentrations in a sample from 6-9 ft bgs. A final round of soil sampling from the limits of the building excavation in December 2014 identified high levels of heavy oils (7,310 ppm) and PAHs remaining in subsurface soils (8-18 ft bgs). Three methane monitoring probes installed at the site in August 2014 detected methane in soil gas at concentrations up to 53.8 percent by volume. Follow-up sampling in April and July 2015 (during building construction) detected almost no methane. Post-construction sampling found no methane in March 2016, but concentrations up to 40.2 percent were detected beneath the completed building in June 2016.

NARR ID: 5755513
NARR Code: Data Sources
Created By: CHARMAN
Created Date: 01/07/2015
Updated By: KDANA
Updated Date: 03/29/2017
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> for Hoyt Street Development [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 4) GeoDesign <quot>Report of Due Diligence Environmental Services<quot> [June 21, 2013]. 5) GeoDesign <quot>Revised Contaminated Media Management Plan<quot> [July 18, 2014]. 6) GeoDesign <quot>Methane Investigation Memo<quot> [September 4, 2014]. 7) GeoDesign <quot>Construction Completion Report<quot> [November 24, 2015]. 8) GeoDesign <quot>Draft Report of Methane Monitoring Results<quot> [August 22, 2016]. 9) GeoDesign <quot>Cap Inspection and Maintenance Plan<quot> [December 14, 2016].

NARR ID: 5755515
NARR Code: Hazardous Substance/Waste Types
Created By: CHARMAN
Created Date: 01/07/2015
Updated By: KDANA
Updated Date: 11/15/2016
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Methane, polycyclic aromatic hydrocarbons (PAHs), heavy oils, and lead
Not reported

NARR ID: 5755926
NARR Code: Site Location
Created By: KDANA
Created Date: 12/30/2015
Updated By: KDANA

THE ABIGAIL (Continued) **S119162010**

Updated Date: 02/27/2017
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Savier Street to the north, NW Raleigh Street to the south, NW 12th Avenue to the east, NW 13th Avenue to the west, and railroad tracks to the northeast.

NARR ID: 5755930
NARR Code: Manner of Release
Created By: KDANA
Created Date: 12/31/2015
Updated By: KDANA
Updated Date: 12/31/2015
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5756498
NARR Code: Media Contamination
Created By: KDANA
Created Date: 11/15/2016
Updated By: KDANA
Updated Date: 11/15/2016
Decode for NarcdID: Media Contamination
NARR Comments: Soils and soil gas

NARR ID: 5755927
NARR Code: Site Ownership
Created By: KDANA
Created Date: 12/30/2015
Updated By: KDANA
Updated Date: 02/27/2017
Decode for NarcdID: Site Ownership
NARR Comments: The site has been owned by Spokane, Portland & Seattle Railway Company (1911-1970), Burlington Northern Railway Company (1970-1994), Hoyt Street Properties LLC (1994-2014), and BRIDGE Housing Corporation (2014 to present).

NARR ID: 5755517
NARR Code: Pathways Other Hazards
Created By: CHARMAN
Created Date: 01/07/2015
Updated By: KDANA
Updated Date: 03/29/2017
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site generally consist of fill materials. The upper layer of fill is described as either silty sands or sandy silts with gravel and brick fragments and extends on average 8-12 feet bgs. This is underlain by a layer of wood chips and sawdust that extends to the maximum explored depth of 15 feet bgs. Groundwater was generally encountered at 10 feet bgs. The groundwater flow direction was not determined but is likely north or northeast towards the Willamette River, 450 feet from the site.

NARR ID: 5756625
NARR Code: Remedial Action
Created By: KDANA
Created Date: 02/27/2017
Updated By: KDANA

THE ABIGAIL (Continued) **S119162010**

Updated Date: 04/13/2017
Decode for NarcdID: Remedial Action
NARR Comments: (03/31/2017 KPD/ICP) From November 2014 to May 2015 a total of 30,653 tons (approx. 22,860 cubic yards) of soil and debris were excavated from the site and disposed of at the Riverbend Landfill, and 225,900 gallons of stormwater and groundwater were discharged to Portland's combined sewer system under permit. Soils at the site are capped with a combination of buildings, pavement, and 2-3 feet of clean soils to prevent direct contact with residual contamination. To address the methane concerns, 16 methane sensors have been installed in the parking garage and other subsurface enclosed spaces at the site. If methane is detected in any sensor at a concentration above one percent by volume, one or more fans will activate to vent the methane and bring in fresh air. Deed restrictions recorded on the property require long-term maintenance of the soil cap and long-term operation and maintenance of the methane monitoring and mitigation system.

NARR ID: 5756626
NARR Code: Health Threats
Created By: KDANA
Created Date: 02/27/2017
Updated By: KDANA
Updated Date: 04/13/2017
Decode for NarcdID: Health Threats
NARR Comments: Heavy oils and methane are contaminants of concern at the site. Residents and occupants of the site are protected from direct contact with residual contaminated soils by a cap of buildings, pavement, and/or 2-3 feet of clean soils at the site. Residents and occupants are protected from methane by a methane monitoring and mitigation system installed in the parking garage and other subsurface enclosed spaces at the site. Long-term maintenance of the soil cap is required by a License and Declaration of Restrictions recorded with the property deed. Long-term operation and maintenance of the methane monitoring and mitigation system is required by an Easement and Equitable Servitudes recorded with the property deed.

NARR ID: 5755516
NARR Code: Site History
Created By: CHARMAN
Created Date: 01/07/2015
Updated By: KDANA
Updated Date: 03/29/2017
Decode for NarcdID: Site History
NARR Comments: As of 1889 the site was part of the Willamette Steam Mills Lumbering and Manufacturing Company facility and was being used for lumber storage. The mill was gone by 1901, and by 1911 the site had been incorporated into a rail yard (the Fremont Yards) owned and operated by the Spokane, Portland & Seattle (SP&S) Railway Company. A blacksmith shop and three garages were constructed on the southwestern portion of the site around 1940. The shop and garages were replaced by an oil house around 1960. Burlington Northern appears to have acquired SP&S around 1970. The oil house was removed in the 1980s. In 1994 the facility, now known as the Hoyt Street Railyard, was sold to Hoyt Street Properties, LLC for redevelopment. Hoyt Street leased the railyard to Burlington Northern from 1994 through 1998, after which rail activity ceased. In August 1995 Burlington Northern signed an Order on Consent with DEQ to

THE ABIGAIL (Continued) **S119162010**

investigate and clean up environmental contamination at the railyard. Burlington Northern completed a Remedial Investigation in October 1996, a Risk Assessment in February 1998, and a Feasibility Study in July 1999. DEQ issued a Record of Decision for the railyard in December 2000. BRIDGE Housing Corporation acquired the site in 2014. Construction of The Abigail, a 155-unit apartment complex in two six-story buildings, began in November 2014 and was completed by the end of 2015.

NARR ID: 5757045
NARR Code: 1922
Created By: KDANA
Created Date: 02/01/2018
Updated By: KDANA
Updated Date: 02/01/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The Abigail Apartments were constructed in 2015 on Block 27 of the former Hoyt Street Railyard. Soils at the site were contaminated with diesel, oil, lead and PAHs. A decomposing subsurface layer of wood chips and sawdust from a late-1800s lumber mill was also present, generating methane. Over 30,000 tons of soil and debris and 225,000 gallons of stormwater and groundwater were removed from the site during construction. Residual soil contamination at the site is capped by buildings, pavement, and/or 2-3 feet of imported clean soils. Sensors were installed in the subsurface parking garage to detect and vent any accumulations of methane.

Site Control:
Site Control #: 1023
Control Number: 4
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 07/14/2014
Last Update By: KDANA
Last Updated Date: 08/23/2016
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 1024
Control Number: 5
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 07/14/2014
Last Update By: KDANA
Last Updated Date: 08/23/2016
Site Comment: Detached single-family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Site Control #: 1109
Control Number: 3
Begin Date: 03/31/2017
End Date: Not reported
Frequency Of Review: 3
Last Reviewed By: K. Dana, DEQ

THE ABIGAIL (Continued) **S119162010**

Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 04/03/2017
Site Comment: Recorded by Multnomah County. Requires operation and maintenance of a methane monitoring and mitigation system.

Site Control #: 1110
Control Number: 25
Begin Date: 03/31/2017
End Date: Not reported
Frequency Of Review: 3
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 04/03/2017
Site Comment: Operation and maintenance of a methane monitoring and mitigation system in the parking garage and other subsurface enclosed spaces. Quarterly reporting expected for the first two years, then annual reporting.

Site Control #: 1069
Control Number: 3
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 07/14/2014
Last Update By: KDANA
Last Updated Date: 08/23/2016
Site Comment: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Site Control #: 1070
Control Number: 20
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/28/2020
Last Update By: KDANA
Last Updated Date: 04/27/2021
Site Comment: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate the surface cover or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 11/18/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/18/2013

THE ABIGAIL (Continued) **S119162010**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9433
Region: Northwestern Region
Complete Date: 03/31/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/18/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/02/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 03/31/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/03/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9450
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/03/2017
Decode for AgencyID: Department of Environmental Quality

THE ABIGAIL (Continued) **S119162010**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPERATION and MAINTENANCE
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/03/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/03/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135945
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 12/31/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199376
SIC Code: 4011
Created By: KDANA
Created Date: 12/31/2015

Enginering Control:
Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1070
Site Id: 5856
Control Sequence #: 20
Begin Date: 07/14/2014

THE ABIGAIL (Continued) **S119162010**

End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/28/2020
Last Updated By: KDANA
Last Updated Date: 04/27/2021
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate the surface cover or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1110
Site Id: 5856
Control Sequence #: 25
Begin Date: 03/31/2017
End Date: Not reported
Frequency Of Review: 3
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 04/03/2017
Group Sequence #: 6
Control Code: PMRO
Control Description: Periodic montioring & reporting, other categories
FK Type Code: 2
Group Code: LTC
Group Description: Long-Term Controls
Type Code: E
Type Description: Engineering
Comments: Operation and maintenance of a methane monitoring and mitigation system in the parking garage and other subsurface enclosed spaces. Quarterly reporting expected for the first two years, then annual reporting.

Institutional Control:
Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1024
Site Id: 5856
Control Sequence #: 5
Begin Date: 07/14/2014

THE ABIGAIL (Continued) **S119162010**

End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 07/14/2014
Last Updated By: KDANA
Last Updated Date: 08/23/2016
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single-family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1109
Site Id: 5856
Control Sequence #: 3
Begin Date: 03/31/2017
End Date: Not reported
Frequency Of Review: 3
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 04/03/2017
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Recorded by Multnomah County. Requires operation and maintenance of a methane monitoring and mitigation system.

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1069
Site Id: 5856
Control Sequence #: 3
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 07/14/2014
Last Updated By: KDANA
Last Updated Date: 08/23/2016
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude

THE ABIGAIL (Continued) **S119162010**

FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1023
Site Id: 5856
Control Sequence #: 4
Begin Date: 07/14/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 07/14/2014
Last Updated By: KDANA
Last Updated Date: 08/23/2016
Group Sequence #: 2
Control Code: USG
Control Description: Use Restriction Groundwater
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: No use of groundwater at the property for consumption or other beneficial use.

VCS:
Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: No Further Action (Conditional)
Start Date: 03/31/2017
End Date: 03/31/2017
Program: ICP
Latitude: 45.5346
Longitude: -122.684

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: Institutional Control
Start Date: 03/31/2017
End Date: Not reported
Program: ICP
Latitude: 45.5346
Longitude: -122.684

THE ABIGAIL (Continued) **S119162010**

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: Engineering Control
Start Date: 06/01/2016
End Date: Not reported
Program: ICP
Latitude: 45.5346
Longitude: -122.684

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: OPERATION & MAINTENANCE
Start Date: 04/01/2017
End Date: Not reported
Program: ICP
Latitude: 45.5346
Longitude: -122.684

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: INDEPENDENT CLEANUP
Start Date: 11/01/2013
End Date: 03/31/2017
Program: ICP
Latitude: 45.5346
Longitude: -122.684

Name: THE ABIGAIL
Address: 1650 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5856
Facility Size: 0.92 acres
Action: Institutional Control
Start Date: 07/14/2014
End Date: Not reported
Program: ICP
Latitude: 45.5346
Longitude: -122.684

B4 **GANNON GEO T** **EDR Hist Cleaner** **1009477876**
NNW **1733 SW FRONT AVE** **N/A**
< 1/8 **PORTLAND, OR**
0.036 mi.
188 ft. **Site 2 of 4 in cluster B**

Relative: EDR Hist Cleaner
Lower

Actual: Year: Name: Type:
34 ft. 1935 CANNON GEO T CLOTHES PRESSERS AND CLEANERS
1940 GANNON GEO T CLOTHES PRESSERS AND CLEANERS

C5 **HOYT STREET RAILYARD - BLOCK 20** **OR ECSI** **S118673061**
SSE **1150 NW QUIMBY ST.** **OR ENG CONTROLS** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR INST CONTROL**
0.043 mi. **OR VCP**
227 ft. **Site 1 of 3 in cluster C**

Relative: ECSI:
Higher
Actual: Name: HOYT STREET RAILYARD - BLOCK 20
37 ft. Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 6116
Brown ID: 0
Study Area: False
Region ID: Not reported
Legislatve ID: 831
Investigation: Suspect
FACA ID: 140699
Further Action: 0
Lat/Long (dms): 45 31 59.00 / -122 40 58.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: 2635
Size: 0.92 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 05/27/2020
Created Date: 06/06/2016
Decode For RegionID: Not reported
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Vista Condominiums

Hazardous Release:
Substance ID.: 121462
Haz Release ID: 388323
Qty Released: unknown
Date Released: unknown

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Update Date: 11/09/2016
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305780
Release Code: General Comments
Release Comments: Highest concentrations detected in Test Pit 20E (1998) and borings DP-4 (surface soils) and DP-10 (deep soils)
Decode for Relcomcd: General Comments
Comment ID: 305781
Release Code: Data Sources
Release Comments: EMCON Phase 2 Supplemental Soil Investigation (1998) and GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350887
Feature Id: 0
Hazard Release Id: 388323
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 10/05/1998
End Date: 10/05/1998
Min Concentration: Not reported
Max Concentration: 4.50
Sample Comment: up to 4.5 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Sampling Result ID: 350900
Feature Id: 0
Hazard Release Id: 388323
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 3.04
Sample Comment: up to 3.04 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350901
Feature Id: 0
Hazard Release Id: 388323
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.5-3.5 ft bgs
Start Date: 09/15/2016
End Date: 09/15/2016
Min Concentration: Not reported
Max Concentration: .82
Sample Comment: up to 0.824 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388324
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Sub Alias Name:	B(a)P
Substance Alias ID:	318560
Sub Alias Name:	BENZOPYRENE,3,4-
Substance Alias ID:	318561
Sub Alias Name:	BENZPYRENE,3,4-
Substance Alias ID:	318562
Sub Alias Name:	BP
Comment ID:	305782
Release Code:	General Comments
Release Comments:	Highest concentrations detected in Test Pit 20E (1998) and borings DP-4 (surface soils) and DP-10 (deep soils)
Decode for Relcomcd:	General Comments
Comment ID:	305783
Release Code:	Data Sources
Release Comments:	EMCON Phase 2 Supplemental Soil Investigation (1998) and GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd:	Data Sources
Sampling Result ID:	350888
Feature Id:	0
Hazard Release Id:	388324
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	10-15 ft bgs
Start Date:	10/05/1998
End Date:	10/05/1998
Min Concentration:	Not reported
Max Concentration:	8.60
Sample Comment:	up to 8.6 ppm
Last Update By:	KDANA
Update Date:	11/09/2016
Decode for MediumID:	Soil
Sampling Result ID:	350902
Feature Id:	0
Hazard Release Id:	388324
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	10.5-12.0 ft bgs
Start Date:	09/16/2016
End Date:	09/16/2016
Min Concentration:	Not reported
Max Concentration:	3.21
Sample Comment:	up to 3.21 ppm
Last Update By:	KDANA
Update Date:	11/09/2016
Decode for MediumID:	Soil
Sampling Result ID:	350903
Feature Id:	0
Hazard Release Id:	388324
Medium:	703

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.5-3.5 ft bgs
Start Date: 09/15/2016
End Date: 09/15/2016
Min Concentration: Not reported
Max Concentration: .97
Sample Comment: up to 0.965 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 388325
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 305784
Release Code: General Comments
Release Comments: Highest concentrations detected in Test Pit 20E (1998) and borings DP-10 (deep soils) and DP-12 (shallow soils)
Decode for Relcomcd: General Comments
Comment ID: 305785
Release Code: Data Sources
Release Comments: EMCON Phase 2 Supplemental Soil Investigation (1998) and GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350889
Feature Id: 0
Hazard Release Id: 388325

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 10/05/1998
End Date: 10/05/1998
Min Concentration: Not reported
Max Concentration: 2.70
Sample Comment: up to 2.7 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350904
Feature Id: 0
Hazard Release Id: 388325
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 2.59
Sample Comment: up to 2.59 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350905
Feature Id: 0
Hazard Release Id: 388325
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.0-2.5 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: .96
Sample Comment: up to 0.96 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388326
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Update By:	KDANA
Substance Code:	53-70-3
Substance Name:	DIBENZO(a,h)ANTHRACENE
Substance Abbrev.:	Not reported
Substance Category ID:	8499
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8499
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	318667
Sub Alias Name:	DB(a,h)A
Substance Alias ID:	318668
Sub Alias Name:	DIBENZ(a,h)ANTHRACENE
Substance Alias ID:	318669
Sub Alias Name:	DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID:	318670
Sub Alias Name:	DIBENZANTHRACENE,1,2:5,6-
Comment ID:	305786
Release Code:	General Comments
Release Comments:	Highest concentrations detected in Test Pit 20E (1998) and borings DP-10 (deep soils) and DP-12 (shallow soils)
Decode for Relcomcd:	General Comments
Comment ID:	305787
Release Code:	Data Sources
Release Comments:	EMCON Phase 2 Supplemental Soil Investigation (1998) and GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd:	Data Sources
Sampling Result ID:	350890
Feature Id:	0
Hazard Release Id:	388326
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	10-15 ft bgs
Start Date:	10/05/1998
End Date:	10/05/1998
Min Concentration:	Not reported
Max Concentration:	4.80
Sample Comment:	up to 4.8 ppm
Last Update By:	KDANA
Update Date:	11/09/2016
Decode for MediumID:	Soil
Sampling Result ID:	350906
Feature Id:	0
Hazard Release Id:	388326
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: .45
Sample Comment: up to 0.448 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350907
Feature Id: 0
Hazard Release Id: 388326
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.0-2.5 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: .19
Sample Comment: up to 0.187 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 388327
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305788
Release Code: General Comments
Release Comments: Highest concentrations detected in boring DP-1
Decode for Relcomcd: General Comments
Comment ID: 305789
Release Code: Data Sources
Release Comments: GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Sampling Result ID: 350891
Feature Id: 0
Hazard Release Id: 388327
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 20.5-21.5 ft bgs
Start Date: 09/15/2016
End Date: 09/15/2016
Min Concentration: Not reported
Max Concentration: 1180.00
Sample Comment: up to 1,180 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350892
Feature Id: 0
Hazard Release Id: 388327
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2-3 ft bgs
Start Date: 09/15/2016
End Date: 09/15/2016
Min Concentration: Not reported
Max Concentration: 129.00
Sample Comment: up to 129 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388328
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305790

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Release Code: General Comments
Release Comments: Highest concentrations detected in borings DP-10 (deep soil) and DP-12 (shallow soil)
Decode for Relcomcd: General Comments
Comment ID: 305791
Release Code: Data Sources
Release Comments: GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350893
Feature Id: 0
Hazard Release Id: 388328
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 1060.00
Sample Comment: up to 1,060 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350894
Feature Id: 0
Hazard Release Id: 388328
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1-2.5 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 1320.00
Sample Comment: up to 1,320 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 388329
Qty Released: unknown
Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 305792
Release Code: General Comments
Release Comments: Highest concentrations detected in boring DP-10
Decode for Relcomcd: General Comments
Comment ID: 305793
Release Code: Data Sources
Release Comments: GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350895
Feature Id: 0
Hazard Release Id: 388329
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 27.60
Sample Comment: up to 27.6 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350896
Feature Id: 0
Hazard Release Id: 388329
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5-2.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 14.30
Sample Comment: up to 14.3 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388330
Qty Released: unknown

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Date Released: unknown
Update Date: 11/09/2016
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305794
Release Code: General Comments
Release Comments: Highest concentrations detected in borings DP-9 (shallow soils) and DP-10 (deep soils)
Decode for Relcomcd: General Comments
Comment ID: 305795
Release Code: Data Sources
Release Comments: GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350897
Feature Id: 0
Hazard Release Id: 388330
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 5240.00
Sample Comment: up to 5,240 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350898
Feature Id: 0
Hazard Release Id: 388330
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1-2 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Min Concentration: Not reported
Max Concentration: 944.00
Sample Comment: up to 944 ppm
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil
Sampling Result ID: 350899
Feature Id: 0
Hazard Release Id: 388330
Medium: 703
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10.5-12.0 ft bgs
Start Date: 09/16/2016
End Date: 09/16/2016
Min Concentration: Not reported
Max Concentration: 28.70
Sample Comment: up to 28.7 mg/L
Last Update By: KDANA
Update Date: 11/09/2016
Decode for MediumID: Soil

Substance ID.: 121623
Haz Release ID: 388336
Qty Released: unknown
Date Released: unknown
Update Date: 11/16/2016
Update By: KDANA
Substance Code: 74-82-8
Substance Name: METHANE
Substance Abbrev.: Not reported
Comment ID: 305796
Release Code: Media Contamination Footnote
Release Comments: Other Medium = soil gas
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305797
Release Code: General Comments
Release Comments: Highest concentration detected in boring DP-3
Decode for Relcomcd: General Comments
Comment ID: 305798
Release Code: Data Sources
Release Comments: GeoDesign Subsurface Investigation (2016)
Decode for Relcomcd: Data Sources
Sampling Result ID: 350913
Feature Id: 0
Hazard Release Id: 388336
Medium: 700
Substance Abbrev.: 0
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: 17-18 ft bgs
Start Date: 09/15/2016

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

End Date: 09/15/2016
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 20.0 pbv
Last Update By: KDANA
Update Date: 11/16/2016
Decode for MediumID: Other

Narrative:

NARR ID: 5756536
NARR Code: Contamination
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 05/27/2020
Decode for NarcdID: Contamination
NARR Comments: (05/26/2020 KPD/VCP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from six test pits on and adjacent to the site in October 1998, finding up to 350 ppm lead. One soil sample from the center of the block showed 450 ppm diesel and relatively high concentrations of PAHs. The site was re-investigated in September 2016 just prior to development. Three soil samples were collected from each of 14 borings and analyzed for diesel, oil, metals, and PAHs. Diesel (up to 1,180 ppm), oil (up to 1,320 ppm), arsenic (27.6 ppm), and lead (5,240 ppm) were detected in the samples, along with PAHs. Methane samples were collected from wood debris (encountered in about half of the borings). Methane concentrations ranged up to 20% by volume.

NARR ID: 5756539
NARR Code: Data Sources
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 03/02/2020
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> for Hoyt Street Development [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 4) GeoDesign <quot>Report of Pre-Construction Subsurface Investigation<quot> [October 13, 2016]. 5) GeoDesign <quot>Contaminated Media Management Plan<quot> [December 22, 2016]. 6) GeoDesign <quot>Methane Mitigation Design Drawings<quot> [March 20, 2017]. 7) GeoDesign <quot>Construction Completion Report<quot> [February 13, 2019]. 8) DEQ <quot>Staff Closure Memo<quot> [April 2, 2019]. 9) GeoDesign <quot>Methane Monitoring Plan<quot> [October 22, 2019].

NARR ID: 5756538
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 12/28/2016
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Diesel and oil, polycyclic aromatic hydrocarbons (PAHs), methane,

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

arsenic and lead.

NARR ID: 5756518
NARR Code: Site Location
Created By: KDANA
Created Date: 12/14/2016
Updated By: KDANA
Updated Date: 12/14/2016
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Quimby Street to the north, NW Pettygrove Street to the south, NW 11th Avenue to the east, and NW 12th Avenue to the west.

NARR ID: 5756537
NARR Code: Manner of Release
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 12/28/2016
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5756519
NARR Code: Media Contamination
Created By: KDANA
Created Date: 12/14/2016
Updated By: KDANA
Updated Date: 12/14/2016
Decode for NarcdID: Media Contamination
NARR Comments: Soil and soil gas

NARR ID: 5756540
NARR Code: Site Ownership
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 04/07/2020
Decode for NarcdID: Site Ownership
NARR Comments: The Hoyt Street Railyard was owned and operated by the Portland & Seattle Railway Company, later known as the Spokane, Portland & Seattle Railway Company. SP&S was acquired by Burlington Northern Railroad in 1970. In 1994, BNRR sold the railyard to Hoyt Street Properties for redevelopment.

NARR ID: 5757849
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 04/07/2020
Updated By: KDANA
Updated Date: 04/07/2020
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site consist of fill materials (silts, sands, and gravels with occasional debris) atop native silts. The fill materials extend at least 15 feet to over 30 feet below ground surface. Along the north edge of the block, a layer of wood waste 1-8 feet thick was encountered between the fill and the native silts. Groundwater was encountered at 15 feet bgs. The groundwater flow direction was not

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

determined, but is expected to be towards the Willamette River, 600 feet to the northeast.

NARR ID: 5757428
NARR Code: Remedial Action
Created By: KDANA
Created Date: 03/27/2019
Updated By: KDANA
Updated Date: 05/27/2020
Decode for NarcdID: Remedial Action
NARR Comments: (05/26/2020 KPD/VCP) A total of 27,120 tons of soils were excavated from the site from October 2016 to April 2017 and shipped to the Hillsboro Landfill for disposal. Groundwater was encountered in the excavation at 15 ft bgs, and almost 200,000 gallons of groundwater and surface water runoff were pumped from the excavation pit from December 2016 through February 2017. An active methane mitigation system was installed below the building foundation to prevent the accumulation of methane gas. Construction of the Vista Condominiums was completed in October 2018, and DEQ received a Construction Completion Report in February 2019. A requirement to operate and maintain the methane mitigation system, and provide annual methane monitoring reports to DEQ, was written into a deed restriction and recorded with the property deed. A separate deed restriction, requiring long-term maintenance of the building and sidewalk soil cap and notification to DEQ if the cap is breached, was recorded on the property deed prior to construction.

NARR ID: 5756535
NARR Code: Site History
Created By: KDANA
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 04/07/2020
Decode for NarcdID: Site History
NARR Comments: The area around the site was originally marshlands associated with Tanner Creek and the Willamette River. The area was filled in with soil and industrial debris in the 1880s, and as of 1889 a sawmill was operating northeast of the site. By 1897, the sawmill had been replaced by a railyard. The Hoyt Street Railyard was established by 1911. In 1994, Burlington Northern Railroad sold the Hoyt Street Railyard to Hoyt Street Properties for redevelopment. Hoyt Street leased the railyard to Burlington Northern from 1994 through 1998, after which rail activity ceased. In August 1995 Burlington Northern signed an Order on Consent with DEQ to investigate and clean up environmental contamination at the railyard. Burlington Northern completed a Remedial Investigation in October 1996, a Risk Assessment in February 1998, and a Feasibility Study in July 1999. DEQ issued a Record of Decision for the railyard in December 2000. In January 2002, DEQ signed a Consent Decree with the renamed Burlington Northern Santa Fe (BNSF) Railway and Hoyt Street Properties (HSP). HSP agreed to address contaminated soils at the railyard while BNSF agreed to address the groundwater. Hoyt Street Properties numbered most of the new city blocks that would be established in the former railyard. The Vista Condominiums are on Block 20.

NARR ID: 5757850
NARR Code: 1922

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Created By: KDANA
Created Date: 04/07/2020
Updated By: KDANA
Updated Date: 05/27/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The Vista Condominiums were constructed on Block 20 of the former Hoyt Street Railyard. Sampling in 2016 identified diesel, heavy oils, and petroleum constituents in the soils and methane in soil gas. From October 2016 to April 2017, a total of 27,120 tons of soils were excavated from the site and shipped to the Hillsboro Landfill for disposal. Almost 200,000 gallons of groundwater and surface water runoff were pumped from the excavation pit and discharged to Portland's municipal stormwater system under permit. An active methane mitigation system, consisting of four-inch diameter perforated pipes within a six-inch gravel layer connected to a continuously-operating blower, was installed beneath the building foundation. Methane is vented through riser pipes to the outside air. Subject to on-going monitoring and maintenance of the soil cap and methane mitigation system, no further cleanup is necessary at the site.

Site Control:
Site Control #: 1086
Control Number: 20
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 05/12/2016
Last Update By: KDANA
Last Updated Date: 05/25/2020
Site Comment: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanant feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Site Control #: 1240
Control Number: 26
Begin Date: 09/01/2017
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 02/05/2020
Last Update By: KDANA
Last Updated Date: 05/25/2020
Site Comment: A network of four-inch-diameter perforated pipes were placed within a six-inch gravel blanket below the building foundation and wrapped with a filter sock. A blower sized for three air exchanges per hour is connected to vent risers extending to the 6th floor roof level. The system is intended to operate continuously, and alarms will sound in the event of system failure. Six sub-slab monitoring probes were installed around the edges of the building.

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Site Control #: 1285
Control Number: 3
Begin Date: 05/11/2020
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 05/11/2020
Last Update By: KDANA
Last Updated Date: 05/25/2020
Site Comment: Recorded by Multnomah County. Requires owner to operate and maintain the methane mitigation system, and to annually monitor and report methane concentrations in accordance with the methane monitoring plan.

Site Control #: 1036
Control Number: 3
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 05/12/2016
Last Update By: KDANA
Last Updated Date: 05/25/2020
Site Comment: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Site Control #: 1037
Control Number: 4
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 05/12/2016
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 1038
Control Number: 5
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 05/12/2016
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Administrative Action:
Action ID: 9434
Region: Northwestern Region
Complete Date: 05/11/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/25/2020
Decode for AgencyID: Department of Environmental Quality

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 05/26/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/27/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 06/06/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/06/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/06/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 05/12/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 05/26/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/27/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 10/13/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/27/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 04/14/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/27/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/27/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135956
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 11/16/2016
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199383
SIC Code: 4011
Created By: KDANA
Created Date: 11/16/2016

Enginering Control:
Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1086
Site Id: 6116
Control Sequence #: 20
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Review Date: 05/12/2016
Last Updated By: KDANA
Last Updated Date: 05/25/2020
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanant feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1240
Site Id: 6116
Control Sequence #: 26

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Begin Date: 09/01/2017
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Review Date: 02/05/2020
Last Updated By: KDANA
Last Updated Date: 05/25/2020
Group Sequence #: 6
Control Code: SVA
Control Description: Soil venting, active
FK Type Code: 2
Group Code: LTC
Group Description: Long-Term Controls
Type Code: E
Type Description: Engineering
Comments: A network of four-inch-diameter perforated pipes were placed within a six-inch gravel blanket below the building foundation and wrapped with a filter sock. A blower sized for three air exchanges per hour is connected to vent risers extending to the 6th floor roof level. The system is intended to operate continuously, and alarms will sound in the event of system failure. Six sub-slab monitoring probes were installed around the edges of the building.

Institutional Control:
Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1038
Site Id: 6116
Control Sequence #: 5
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 05/12/2016
Last Updated By: KDANA
Last Updated Date: 11/21/2016
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1037
Site Id: 6116
Control Sequence #: 4
Begin Date: 05/12/2016
End Date: Not reported
Frequency Of Review: 60

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Last Reviewed By:	K. Dana, DEQ
Last Review Date:	05/12/2016
Last Updated By:	KDANA
Last Updated Date:	11/21/2016
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	No use of groundwater at the property for consumption or other beneficial use.

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1285
Site Id:	6116
Control Sequence #:	3
Begin Date:	05/11/2020
End Date:	Not reported
Frequency Of Review:	12
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	05/11/2020
Last Updated By:	KDANA
Last Updated Date:	05/25/2020
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Recorded by Multnomah County. Requires owner to operate and maintain the methane mitigation system, and to annually monitor and report methane concentrations in accordance with the methane monitoring plan.

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1036
Site Id:	6116
Control Sequence #:	3
Begin Date:	05/12/2016
End Date:	Not reported
Frequency Of Review:	12
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	05/12/2016
Last Updated By:	KDANA
Last Updated Date:	05/25/2020
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

VCS:

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6116
Facility Size: 0.92 acres
Action: Institutional Control
Start Date: 05/11/2020
End Date: 05/11/2020
Program: ICP
Latitude: 45.5333
Longitude: -122.683

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6116
Facility Size: 0.92 acres
Action: No Further Action (Conditional)
Start Date: 05/26/2020
End Date: 05/26/2020
Program: ICP
Latitude: 45.5333
Longitude: -122.683

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6116
Facility Size: 0.92 acres
Action: SITE EVALUATION
Start Date: 10/13/2016
End Date: Not reported
Program: VCP
Latitude: 45.5333
Longitude: -122.683

Name: HOYT STREET RAILYARD - BLOCK 20
Address: 1150 NW QUIMBY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6116
Facility Size: 0.92 acres
Action: Engineering Control
Start Date: 09/01/2017
End Date: Not reported
Program: ICP
Latitude: 45.5333
Longitude: -122.683

HOYT STREET RAILYARD - BLOCK 20 (Continued) **S118673061**

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6116
Facility Size:	0.92 acres
Action:	REMOVAL
Start Date:	10/28/2016
End Date:	04/14/2017
Program:	ICP
Latitude:	45.5333
Longitude:	-122.683

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6116
Facility Size:	0.92 acres
Action:	Independent Cleanup Program
Start Date:	09/15/2016
End Date:	05/26/2020
Program:	ICP
Latitude:	45.5333
Longitude:	-122.683

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6116
Facility Size:	0.92 acres
Action:	Institutional Control
Start Date:	05/12/2016
End Date:	05/12/2016
Program:	ICP
Latitude:	45.5333
Longitude:	-122.683

Name:	HOYT STREET RAILYARD - BLOCK 20
Address:	1150 NW QUIMBY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6116
Facility Size:	0.92 acres
Action:	PRELIMINARY ASSESSMENT EQUIVALENT
Start Date:	10/13/2016
End Date:	10/13/2016
Program:	ICP
Latitude:	45.5333
Longitude:	-122.683

6
NNW
< 1/8
0.044 mi.
232 ft.

FREMONT PLACE
1650 NW NAITO PARKWAY
PORTLAND, OR 97209

OR ECSI **S107594890**
OR VCP **N/A**

Relative:
Lower

Actual:
33 ft.

ECSI:

Name:	FREMONT PLACE
Address:	1650 NW NAITO PARKWAY
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	6403
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	0
Further Action:	0
Lat/Long (dms):	0 0 .00 / 0 0 .00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	28
Qtr Section:	DD
Tax Lots:	401
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	02/26/2020
Created Date:	02/13/2020
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5757960
NARR Code:	Data Sources
Created By:	KDANA
Created Date:	08/05/2020
Updated By:	KDANA
Updated Date:	08/05/2020
Decode for NarcdID:	Data Sources
NARR Comments:	1) GeoDesign <quot>Limited Subsurface Investigation<quot> [February 5, 2020].

NARR ID:	5757804
NARR Code:	Remedial Action
Created By:	KDAUGHE
Created Date:	02/13/2020
Updated By:	KDAUGHE
Updated Date:	02/13/2020
Decode for NarcdID:	Remedial Action
NARR Comments:	(2/13/20 KJD/ICP) Site is joining ICP to work through removal of soil

FREMONT PLACE (Continued) **S107594890**

during construction of new apartment building.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 02/13/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/13/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/13/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

VCS:
Name: FREMONT PLACE
Address: 1650 NW NAITO PARKWAY
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6403
Facility Size: Not reported
Action: SITE INVESTIGATION
Start Date: 02/13/2020
End Date: Not reported
Program: ICP
Latitude: 0
Longitude: 0

D7 **HOYT STREET RAILYARD - BLOCK 23** **OR ECSI** **S127977981**
WSW **1540 NW 13TH AVE.** **OR ENG CONTROLS** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR INST CONTROL**
0.045 mi. **OR VCP**
237 ft. **Site 1 of 2 in cluster D**

Relative: Higher
Actual: 38 ft.

ECSI:
Name: HOYT STREET RAILYARD - BLOCK 23
Address: 1540 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 6352
Brown ID: 0
Study Area: False
Region ID: Not reported

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Legislatve ID: 831
Investigation: Suspect
FACA ID: 155960
Further Action: 0
Lat/Long (dms): 45 32 1.00 / -122 41 4.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 28
Qtr Section: DD
Tax Lots: 712
Size: 1.32 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 07/14/2021
Created Date: 07/15/2019
Decode For RegionID: Not reported
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: Holden of Pearl

Hazardous Release:
Substance ID.: 121982
Haz Release ID: 388494
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/2019
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306098
Release Code: General Comments
Release Comments: Highest concentrations detected in borings EM-23A (1998) and DP-4 (2018)
Decode for Relcomcd: General Comments
Sampling Result ID: 351105
Feature Id: 0
Hazard Release Id: 388494
Medium: 703

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 10/08/1998
End Date: 10/08/1998
Min Concentration: Not reported
Max Concentration: 3500.00
Sample Comment: up to 3,500 ppm
Last Update By: KDANA
Update Date: 12/18/2019
Decode for MediumID: Soil
Sampling Result ID: 351225
Feature Id: 0
Hazard Release Id: 388494
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6-8 ft bgs
Start Date: 09/18/2018
End Date: 09/18/2018
Min Concentration: Not reported
Max Concentration: 3670.00
Sample Comment: up to 3,670 ppm
Last Update By: KDANA
Update Date: 07/12/2021
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388495
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/2019
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 306096
Release Code: General Comments
Release Comments: Highest concentration detected in boring DP-10 (2010)
Decode for Relcomcd: General Comments
Sampling Result ID: 351106
Feature Id: 0
Hazard Release Id: 388495
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-15 ft bgs
Start Date: 11/18/2010
End Date: 11/18/2010
Min Concentration: Not reported
Max Concentration: 13.90
Sample Comment: up to 13.9 ppm
Last Update By: KDANA
Update Date: 12/18/2019
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388496
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/2019
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 306097
Release Code: General Comments
Release Comments: Highest concentration detected in boring EM-23F
Decode for Relcomcd: General Comments

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Sampling Result ID: 351107
Feature Id: 0
Hazard Release Id: 388496
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 10/07/1998
End Date: 10/07/1998
Min Concentration: Not reported
Max Concentration: 3.70
Sample Comment: up to 3.7 ppm
Last Update By: KDANA
Update Date: 12/18/2019
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388497
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/2019
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306102
Release Code: General Comments
Release Comments: Highest concentrations detected in borings EM-23B (1998) and DP-4 (2018)
Decode for Relcomcd: General Comments
Sampling Result ID: 351108
Feature Id: 0
Hazard Release Id: 388497
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 10/12/1998
End Date: 10/12/1998
Min Concentration: Not reported
Max Concentration: 4200.00

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Sample Comment: up to 4,200 ppm
Last Update By: KDANA
Update Date: 12/18/2019
Decode for MediumID: Soil
Sampling Result ID: 351228
Feature Id: 0
Hazard Release Id: 388497
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6-8 ft bgs
Start Date: 09/28/2018
End Date: 09/28/2018
Min Concentration: Not reported
Max Concentration: 6410.00
Sample Comment: up to 6,410 ppm
Last Update By: KDANA
Update Date: 07/12/2021
Decode for MediumID: Soil

Substance ID.: 121623
Haz Release ID: 388498
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/2019
Update By: KDANA
Substance Code: 74-82-8
Substance Name: METHANE
Substance Abbrev.: Not reported
Comment ID: 306100
Release Code: Media Contamination Footnote
Release Comments: Other Medium = Soil Gas
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 306101
Release Code: General Comments
Release Comments: Highest concentrations measured in borings DP-7 (2010) and MP-4 (2018)
Decode for Relcomcd: General Comments
Sampling Result ID: 351109
Feature Id: 0
Hazard Release Id: 388498
Medium: 700
Substance Abbrev.: 0
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: 5 ft bgs
Start Date: 11/18/2010
End Date: 11/18/2010
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 49.5 pbv
Last Update By: KDANA
Update Date: 07/12/2021

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Decode for MediumID: Other
Sampling Result ID: 351227
Feature Id: 0
Hazard Release Id: 388498
Medium: 700
Substance Abbrev.: 0
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: 7 ft bgs
Start Date: 09/28/2018
End Date: 09/28/2018
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 63.4 pbv
Last Update By: KDANA
Update Date: 07/12/2021
Decode for MediumID: Other

Substance ID.: 121664
Haz Release ID: 388579
Qty Released: unknown
Date Released: unknown
Update Date: 07/12/2021
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 306095
Release Code: General Comments
Release Comments: Highest concentration detected in boring DP-3 (2018)
Decode for Relcomcd: General Comments
Sampling Result ID: 351224
Feature Id: 0
Hazard Release Id: 388579
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 11.5-13.0 ft bgs
Start Date: 09/25/2018
End Date: 09/25/2018

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Min Concentration: Not reported
Max Concentration: 12.70
Sample Comment: up to 12.7 ppm
Last Update By: KDANA
Update Date: 07/12/2021
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388580
Qty Released: unknown
Date Released: unknown
Update Date: 07/12/2021
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 306099
Release Code: General Comments
Release Comments: Highest concentration detected in boring DP-1 (2018)
Decode for Relcomcd: General Comments
Sampling Result ID: 351226
Feature Id: 0
Hazard Release Id: 388580
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-7 ft bgs
Start Date: 09/25/2018
End Date: 09/25/2018
Min Concentration: Not reported
Max Concentration: 416.00
Sample Comment: up to 416 ppm
Last Update By: KDANA
Update Date: 07/12/2021
Decode for MediumID: Soil

Narrative:
NARR ID: 5757734
NARR Code: Contamination
Created By: KDANA
Created Date: 12/18/2019
Updated By: KDANA
Updated Date: 07/12/2021

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Decode for NarcdID: Contamination
NARR Comments: The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from six test pits on and adjacent to the site in October 1998. Diesel, heavy oils, lead, and PAHs were detected. Seven soil borings were advanced at the site in November 2010, finding the same contaminants in the soil. Methane was measured in five of the borings at concentrations above 5.0% by volume. The site was reinvestigated in September 2018. Borings were advanced in each quarter of the site (NW quarter, SE quarter, etc.) and three soil samples were collected from each boring. Diesel, heavy oils, and PAHs were detected, along with some elevated concentrations of metals (including arsenic and lead). Groundwater samples were collected from two of the borings. No significant groundwater contamination was identified. Four methane probes were also installed. Significant concentrations of methane were recorded in three of the probes.

NARR ID: 5757733
NARR Code: Data Sources
Created By: KDANA
Created Date: 12/18/2019
Updated By: KDANA
Updated Date: 07/14/2021
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> for Hoyt Street Development [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 4) Anchor Environmental <quot>Phase V Environmental Soil Report<quot> [February 2006]. 5) GeoDesign <quot>Due Diligence Environmental Services<quot> [December 21, 2010]. 6) GeoDesign <quot>Limited Phase II Environmental Site Assessment<quot> [October 30, 2018]. 7) GeoDesign <quot>Contaminated Media Management Plan<quot> [September 23, 2019].

NARR ID: 5758181
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 07/12/2021
Updated By: KDANA
Updated Date: 07/14/2021
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Diesel, heavy oils, methane, metals, and PAHs

NARR ID: 5757589
NARR Code: Site Location
Created By: KDANA
Created Date: 07/30/2019
Updated By: KDANA
Updated Date: 07/30/2019
Decode for NarcdID: Site Location
NARR Comments: The site covers a city block and is partially bounded by NW Raleigh Street to the north, NW Quimby Street to the south, and NW 13th Avenue to the west.

NARR ID: 5757732
NARR Code: Manner of Release

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Created By: KDANA
Created Date: 12/18/2019
Updated By: KDANA
Updated Date: 12/18/2019
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5758182
NARR Code: Media Contamination
Created By: KDANA
Created Date: 07/12/2021
Updated By: KDANA
Updated Date: 07/12/2021
Decode for NarcdID: Media Contamination
NARR Comments: Soil, soil gas, and groundwater

NARR ID: 5757735
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 12/18/2019
Updated By: KDANA
Updated Date: 07/12/2021
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site consisted of imported fill (silts, sands and gravels) extending 8-15 ft bgs, underlain by 5-10 ft of wood chips and sawdust. Native alluvial silts are present beneath the fill. The depth to groundwater is about 11-13 ft bgs.

NARR ID: 5757731
NARR Code: Site History
Created By: KDANA
Created Date: 12/18/2019
Updated By: KDANA
Updated Date: 12/18/2019
Decode for NarcdID: Site History
NARR Comments: The area around the site was originally marshlands extending southwest from the Willamette River. The area was filled in with soil and industrial debris in the 1880s. According to Sanborn maps, the site was part of the Willamette Steam Mill facility in 1889 and vacant in 1901. The site was incorporated into the Hoyt Street Railyard by 1911. In 1994, Burlington Northern Railroad sold the railyard to Hoyt Street Properties for redevelopment. Hoyt Street leased the railyard to Burlington Northern from 1994 through 1998, after which rail activity ceased. In August 1995, Burlington Northern signed an Order on Consent with DEQ to investigate and clean up environmental contamination at the railyard. Burlington Northern completed a Remedial Investigation in October 1996, a Risk Assessment in February 1998, and a Feasibility Study in July 1999. DEQ issued a Record of Decision for the railyard in December 2000.

Site Control:
Site Control #: 1317
Control Number: 3
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Last Update By: KDANA
Last Updated Date: 07/14/2021
Site Comment: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential development, and requires maintenance of a cap.

Site Control #: 1318
Control Number: 4
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 07/14/2021
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 1319
Control Number: 5
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 07/14/2021
Site Comment: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Site Control #: 1320
Control Number: 20
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 07/14/2021
Site Comment: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Administrative Action:
Action ID: 9459
Region: Northwestern Region
Complete Date: 09/23/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 07/15/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/15/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/15/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135981
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 07/30/2019
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199397
SIC Code: 4011
Created By: KDANA
Created Date: 07/30/2019

Enginering Control:
Name: HOYT STREET RAILYARD - BLOCK 23
Address: 1540 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1320
Site Id: 6352
Control Sequence #: 20
Begin Date: 02/18/2020
End Date: Not reported

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 07/14/2021
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Institutional Control:
Name: HOYT STREET RAILYARD - BLOCK 23
Address: 1540 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1319
Site Id: 6352
Control Sequence #: 5
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 07/14/2021
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Name: HOYT STREET RAILYARD - BLOCK 23
Address: 1540 NW 13TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1318
Site Id: 6352
Control Sequence #: 4
Begin Date: 02/18/2020
End Date: Not reported
Frequency Of Review: 0

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Last Reviewed By:	K. Dana
Last Review Date:	Not reported
Last Updated By:	KDANA
Last Updated Date:	07/14/2021
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	No use of groundwater at the property for consumption or other beneficial use.

Name:	HOYT STREET RAILYARD - BLOCK 23
Address:	1540 NW 13TH AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1317
Site Id:	6352
Control Sequence #:	3
Begin Date:	02/18/2020
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	Not reported
Last Updated By:	KDANA
Last Updated Date:	07/14/2021
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	<quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential development, and requires maintenance of a cap.

VCS:

Name:	HOYT STREET RAILYARD - BLOCK 23
Address:	1540 NW 13TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6352
Facility Size:	1.32 acres
Action:	SITE INVESTIGATION
Start Date:	07/15/2019
End Date:	Not reported
Program:	VCP
Latitude:	45.5337
Longitude:	-122.6845

Name:	HOYT STREET RAILYARD - BLOCK 23
Address:	1540 NW 13TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6352

HOYT STREET RAILYARD - BLOCK 23 (Continued) **S127977981**

Facility Size: 1.32 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 07/15/2019
End Date: 09/23/2019
Program: VCP
Latitude: 45.5337
Longitude: -122.6845

B8 **ADAMSON MARK** **EDR Hist Auto** **1009488001**
NW **1667 NW 13TH ST** **N/A**
< 1/8 **PORTLAND, OR**
0.046 mi.
245 ft. **Site 3 of 4 in cluster B**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
36 ft. 1980 ADAMSON MARK AUTOMOBILE REPAIRING

B9 **GERLING FRED C** **EDR Hist Auto** **1009486468**
West **1312 NW RALEIGH** **N/A**
< 1/8 **PORTLAND, OR**
0.049 mi.
260 ft. **Site 4 of 4 in cluster B**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
37 ft. 1935 GERLING FRED C AUTOMOBILE REPAIRING

D10 **SPEARS PROPERTY** **OR LUST** **1004770405**
West **1350 NW RALEIGH STREET** **US BROWNFIELDS** **ORD987173259**
< 1/8 **PORTLAND, OR 97209** **RCRA NonGen / NLR**
0.068 mi.
359 ft. **Site 2 of 2 in cluster D**

Relative: LUST:
Higher
Name: HEATING OIL TANK
Actual: Address: 1350 NW RALEIGH ST
37 ft. City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-09-1214
Cleanup Received Date: 11/25/2009
Cleanup Start Date: Not reported
Cleanup Complete Date: Not reported
Decode for Region: North West Region

US BROWNFIELDS:
Name: SPEARS PROPERTY
Address: 1350 NW RALEIGH STREET
City,State,Zip: PORTLAND, OR 97209
Recipient Name: Portland, City of (Oregon)
Grant Type: Assessment
Property Number: R141069

SPEARS PROPERTY (Continued) **1004770405**

Parcel size:	0.92
Latitude:	45.5342972
Longitude:	-122.68501
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	At the time of this report, the site contained a 0.92 acre warehouse and light manufacturing facility. A prospective purchaser, Turtle Island Development, was interested in building 100 affordable housing units with ground floor space for Portland Public School classrooms and a community center. Although a Phase II ESA had been previously conducted, a lender requested an updated Phase I ESA. Before an updated Phase I could be complete, the owner of the property dropped out of the program as he was not interested in city involvement and agreed to provide reports himself to the city developer. Former Use: Light industrial and manufacturing.
Datum:	North American Datum of 1983
Acres Property ID:	133605
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	984
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	96024102
Start Date:	7/25/2009
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Spears Real Estate LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-

SPEARS PROPERTY (Continued) **1004770405**

Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	Y
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.92
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-

SPEARS PROPERTY (Continued) **1004770405**

Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Light industrial and manufacturing.
Below Poverty Number:	587
Below Poverty Percent:	10.35
Meidan Income:	7872
Meidan Income Number:	1459
Meidan Income Percent:	25.72
Vacant Housing Number:	882
Vacant Housing Percent:	18.87
Unemployed Number:	418
Unemployed Percent:	7.37

RCRA NonGen / NLR:

Date Form Received by Agency:		20101231
Handler Name:	BENSON INDUSTRIES	
Handler Address:		1350 NW RALEIGH ST
Handler City,State,Zip:		PORTLAND, OR 97209
EPA ID:		ORD987173259
Contact Name:		MIKE ROSHAY
Contact Address:		1650 NW NAITO PKWY
Contact City,State,Zip:		PORTLAND, OR 97209
Contact Telephone:		503-226-7618
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		10
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1650 NW NAITO PKWY
Mailing City,State,Zip:		PORTLAND, OR 97209
Owner Name:		BENSON INDUSTRIES
Owner Type:		Private
Operator Name:		BENSON INDUSTRIES
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

SPEARS PROPERTY (Continued) **1004770405**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	NONE
Waste Description:	Not Defined

SPEARS PROPERTY (Continued) **1004770405**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	20041231
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TOM BENSON IND.
Legal Status:	Other
Date Became Current:	19940418
Date Ended Current:	Not reported
Owner/Operator Address:	1650 N.W. FRONT AVE SUITE 250
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7618
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BARBARA SPEARS
Legal Status:	Other
Date Became Current:	19960109
Date Ended Current:	Not reported
Owner/Operator Address:	01551 SW MILITARY RD.
Owner/Operator City,State,Zip:	PORTLAND, OR 97219
Owner/Operator Telephone:	503-635-8639

SPEARS PROPERTY (Continued) **1004770405**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	19901101
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BARBARA SPEARS
Legal Status:	Other
Date Became Current:	19950308
Date Ended Current:	Not reported
Owner/Operator Address:	01551 SW MILITARY RD.
Owner/Operator City,State,Zip:	PORTLAND, OR 97219
Owner/Operator Telephone:	503-635-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TOM BENSON IND.
Legal Status:	Other
Date Became Current:	19950308
Date Ended Current:	Not reported
Owner/Operator Address:	1650 N.W. FRONT AVE SUITE 250
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7618
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	19980109
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	20000112
Date Ended Current:	Not reported

SPEARS PROPERTY (Continued) **1004770405**

Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	20010423
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	19990127
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BARBARA SPEARS
Legal Status:	Other
Date Became Current:	19930224
Date Ended Current:	Not reported
Owner/Operator Address:	01551 SW MILITARY RD.
Owner/Operator City,State,Zip:	PORTLAND, OR 97219
Owner/Operator Telephone:	503-635-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BARBARA SPEARS
Legal Status:	Other
Date Became Current:	19940418
Date Ended Current:	Not reported
Owner/Operator Address:	01551 SW MILITARY RD.
Owner/Operator City,State,Zip:	PORTLAND, OR 97219
Owner/Operator Telephone:	503-635-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TOM BENSON IND.

SPEARS PROPERTY (Continued) **1004770405**

Legal Status:	Other
Date Became Current:	19960109
Date Ended Current:	Not reported
Owner/Operator Address:	1650 N.W. FRONT AVE SUITE 250
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7618
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	19960109
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	19970312
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	20101231
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	BARBARA SPEARS
Legal Status:	Other
Date Became Current:	19920401
Date Ended Current:	Not reported
Owner/Operator Address:	01551 SW MILITARY RD.
Owner/Operator City,State,Zip:	PORTLAND, OR 97219
Owner/Operator Telephone:	503-635-8639
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SPEARS PROPERTY (Continued) **1004770405**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	20020130
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Other
Date Became Current:	20030113
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BENSON INDUSTRIES
Legal Status:	Private
Date Became Current:	20041231
Date Ended Current:	Not reported
Owner/Operator Address:	1650 NW NAITO PKWY
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-226-7611
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19930224
Handler Name: TOM BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19920401
Handler Name: TOM BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

SPEARS PROPERTY (Continued) **1004770405**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940418
Handler Name: TOM BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950308
Handler Name: TOM BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960109
Handler Name: TOM BENSON INDUSTRIES
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960109
Handler Name: BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

SPEARS PROPERTY (Continued) **1004770405**

Receive Date:	19970312
Handler Name: BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19980109
Handler Name: BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19990127
Handler Name: BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20000112
Handler Name: BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20010423
Handler Name: BENSON INDUSTRIES	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

SPEARS PROPERTY (Continued) **1004770405**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020130
Handler Name: BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030113
Handler Name: BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20041231
Handler Name: BENSON INDUSTRIES
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20101231
Handler Name: BENSON INDUSTRIES
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes

SPEARS PROPERTY (Continued) **1004770405**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23815
NAICS Description: GLASS AND GLAZING CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C11 **HEATING OIL TANK** **OR LUST** **S100921458**
SSE **NW CORNER OF NW 12TH AND NW FLANDERS** **N/A**
< 1/8 **PORTLAND, OR 97023**
0.069 mi.
365 ft. **Site 2 of 3 in cluster C**

Relative: **Higher**
Actual: **36 ft.**

LUST:
Name: HEATING OIL TANK
Address: NW CORNER OF NW 12TH AND NW FLANDERS
City,State,Zip: PORTLAND, OR 97023
Region: North Western Region
Facility ID: 26-94-0076
Cleanup Received Date: 04/27/1994
Cleanup Start Date: 04/27/1994
Cleanup Complete Date: 12/10/1996
Decode for Region: North West Region

E12 **HEATING OIL TANK** **OR LUST** **S103840032**
NW **1811 NW FRONT** **N/A**
< 1/8 **PORTLAND, OR 97209**
0.075 mi.
397 ft. **Site 1 of 2 in cluster E**

Relative: **Lower**
Actual: **34 ft.**

LUST:
Name: HEATING OIL TANK
Address: 1811 NW FRONT
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-88-0099
Cleanup Received Date: 11/21/1988
Cleanup Start Date: 11/28/1988
Cleanup Complete Date: 12/01/1988
Decode for Region: North West Region

E13
NW
< 1/8
0.080 mi.
423 ft.

HOYT STREET RAILYARD - BLOCK 29
NORTHEAST OF NW SAVIER ST. & 14TH AVE.
PORTLAND, OR 97209

Site 2 of 2 in cluster E

OR ECSI S119162025
OR VCP N/A

Relative:
Higher

Actual:
36 ft.

ECSI:

Name:	HOYT STREET RAILYARD - BLOCK 29
Address:	NORTHEAST OF NW SAVIER ST. & 14TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	6162
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	143631
Further Action:	0
Lat/Long (dms):	45 32 6.70 / -122 41 6.70
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	28
Qtr Section:	DD
Tax Lots:	700
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/13/2016
Created Date:	12/05/2016
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Hazardous Release:

Substance ID.:	121664
Haz Release ID:	388341
Qty Released:	unknown
Date Released:	unknown
Update Date:	01/19/2017
Update By:	KDANA
Substance Code:	7440-38-2
Substance Name:	ARSENIC
Substance Abbrev.:	Not reported
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 305803
Release Code: Data Sources
Release Comments: December 2016 GeoDesign Subsurface Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305804
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in boring DP-14
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350920
Feature Id: 0
Hazard Release Id: 388341
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5-2.0 ft bgs
Start Date: 10/20/2016
End Date: 10/20/2016
Min Concentration: Not reported
Max Concentration: 13.50
Sample Comment: up to 13.5 ppm
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388342
Qty Released: unknown
Date Released: unknown
Update Date: 01/19/2017
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

Comment ID: 305805
Release Code: Data Sources
Release Comments: December 2016 GeoDesign Subsurface Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305806
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in borings HA-1 (1-2 ft bgs) and DP-1 (12.0-13.5 ft bgs)
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350921
Feature Id: 0
Hazard Release Id: 388342
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 12.0-13.5 ft bgs
Start Date: 10/20/2016
End Date: 10/20/2016
Min Concentration: Not reported
Max Concentration: .97
Sample Comment: up to 0.968 ppm
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Soil
Sampling Result ID: 350922
Feature Id: 0
Hazard Release Id: 388342
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.0-2.0 ft bgs
Start Date: 11/15/2016
End Date: 11/15/2016
Min Concentration: Not reported
Max Concentration: .18
Sample Comment: up to 0.178 ppm
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Soil

Substance ID.: 121623
Haz Release ID: 388343
Qty Released: unknown
Date Released: unknown
Update Date: 01/19/2017
Update By: KDANA
Substance Code: 74-82-8
Substance Name: METHANE
Substance Abbrev.: Not reported
Comment ID: 305807
Release Code: Data Sources

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

Release Comments: December 2016 GeoDesign Subsurface Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305808
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in boring DP-15
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305809
Release Code: General Comments
Release Comments: Other media = soil gas
Decode for Relcomcd: General Comments
Sampling Result ID: 350923
Feature Id: 0
Hazard Release Id: 388343
Medium: 700
Substance Abbrev.: 0
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: 10/20/2016
End Date: 10/20/2016
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 37.2 pbv
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Other

Substance ID.: 121989
Haz Release ID: 388344
Qty Released: unknown
Date Released: unknown
Update Date: 01/19/2017
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305810
Release Code: Data Sources
Release Comments: December 2016 GeoDesign Subsurface Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305811
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in borings DP-6 (0.5-2.0 ft bgs) and DP-9 (4.0-5.5 ft bgs)
Decode for Relcomcd: Media Contamination Footnote

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

Sampling Result ID: 350924
Feature Id: 0
Hazard Release Id: 388344
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 4.0-5.5 ft bgs
Start Date: 10/20/2016
End Date: 10/20/2016
Min Concentration: Not reported
Max Concentration: 2160.00
Sample Comment: up to 2,160 ppm
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Soil
Sampling Result ID: 350925
Feature Id: 0
Hazard Release Id: 388344
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5-2.0 ft bgs
Start Date: 10/20/2016
End Date: 10/20/2016
Min Concentration: Not reported
Max Concentration: 1500.00
Sample Comment: up to 1,500 ppm
Last Update By: KDANA
Update Date: 01/19/2017
Decode for MediumID: Soil

Narrative:
NARR ID: 5756592
NARR Code: Contamination
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Contamination
NARR Comments: (01/19/2017 KPD/VCP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from six test pits at the site in October 1998 and were analyzed for diesel, oil and lead, finding up to 550 ppm oil and 180 ppm lead.

NARR ID: 5756508
NARR Code: Data Sources
Created By: KDANA
Created Date: 12/05/2016
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Data Sources

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> for Hoyt Street Development [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 4) GeoDesign <quot>Report of Pre-Construction Subsurface Investigation<quot> [December 2, 2016].

NARR ID: 5756589
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Heavy oils, polycyclic aromatic hydrocarbons (PAHs), and methane

NARR ID: 5756587
NARR Code: Site Location
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Site Location
NARR Comments: The site covers the triangular block bounded by NW 14th Avenue to the west, NW Savier Street to the south, and NW Naito Parkway to the northeast.

NARR ID: 5756588
NARR Code: Manner of Release
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5756590
NARR Code: Media Contamination
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Media Contamination
NARR Comments: Soils and soil gas

NARR ID: 5756593
NARR Code: Site Ownership
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Site Ownership
NARR Comments: The site was owned by Burlington Northern Santa Fe (BNSF) Railway Company and its predecessors from the early 1900s until 1998. The site was acquired for redevelopment by Hoyt Street Properties, LLC in 1994.

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

NARR ID: 5756591
NARR Code: Site History
Created By: KDANA
Created Date: 01/19/2017
Updated By: KDANA
Updated Date: 01/19/2017
Decode for NarcdID: Site History
NARR Comments: The area around the site was formerly marshlands associated with Couch Lake. The area was filled in with 10-20 feet of material around 1900. The Hoyt Street Railyard was established by 1911 and operated by Burlington Northern Railroad and its predecessors. In 1994 the railyard was sold to Hoyt Street Properties, LLC for redevelopment. Hoyt Street leased the railyard to Burlington Northern from 1994 through 1998, after which rail activity ceased. In August 1995 Burlington Northern signed an Order on Consent with DEQ to investigate and clean up environmental contamination at the railyard. Burlington Northern completed a Remedial Investigation in October 1996, a Risk Assessment in February 1998, and a Feasibility Study in July 1999. DEQ issued a Record of Decision for the railyard in December 2000.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/05/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/05/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/05/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135958
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fuel yard
Updated Date: 01/19/2017
Updated By: KDANA

HOYT STREET RAILYARD - BLOCK 29 (Continued) **S119162025**

Decode for OpstatID: Inactive
Operations SIC Id: 199385
SIC Code: 4011
Created By: KDANA
Created Date: 01/19/2017

VCS:
Name: HOYT STREET RAILYARD - BLOCK 29
Address: NORTHEAST OF NW SAVIER ST. & 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6162
Facility Size: Not reported
Action: SITE EVALUATION
Start Date: 12/05/2016
End Date: Not reported
Program: VCP
Latitude: 45.5352
Longitude: -122.6852

14
WNW
< 1/8
0.084 mi.
442 ft.

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) **OR ECSI** **S118673052**
1620 NW 14TH AVE. **OR ENG CONTROLS** **N/A**
PORTLAND, OR 97209 **OR INST CONTROL**
OR VCP
OR BROWNFIELDS

Relative:
Higher

Actual:
37 ft.

ECSI:
Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 6103
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: Not reported
Legislatve ID: 0
Investigation: Suspect
FACA ID: 140169
Further Action: 0
Lat/Long (dms): 45 32 4.00 / -122 41 7.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 28
Qtr Section: DD
Tax Lots: 711
Size: 0.23 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 11/06/2018
Created Date: 04/13/2016
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Vibrant Apartments

Hazardous Release:
Substance ID.: 121664
Haz Release ID: 388307
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 305762
Release Code: General Comments
Release Comments: Highest concentrations detected in Boring B-1 (2.5-4.0 ft bgs), Boring B-5 (4-5 ft bgs), and Boring B-26 (5-10 ft bgs).
Decode for Relcomcd: General Comments
Comment ID: 305761
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation; AMEC Phase 2 ESA; and Wood Closeout Report.
Decode for Relcomcd: Data Sources
Sampling Result ID: 350848
Feature Id: 0
Hazard Release Id: 388307
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.5-4.0 ft bgs
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: 9.96
Sample Comment: up to 9.96 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil
Sampling Result ID: 350849
Feature Id: 0
Hazard Release Id: 388307
Medium: 703

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 4-5 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: 12.50
Sample Comment: up to 12.5 ppm
Last Update By: KDANA
Update Date: 07/27/2016
Decode for MediumID: Soil
Sampling Result ID: 351058
Feature Id: 0
Hazard Release Id: 388307
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 06/26/2017
End Date: 06/26/2017
Min Concentration: Not reported
Max Concentration: 14.20
Sample Comment: up to 14.2 ppm
Last Update By: KDANA
Update Date: 03/19/2019
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388308
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305763
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation and AMEC Phase 2 ESA
Decode for Relcomcd: Data Sources
Comment ID: 305764

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Release Code: General Comments
Release Comments: Highest concentrations detected in Boring B-3 (2.5-4.0 ft bgs) and Boring B-9 (8-9 ft bgs)
Decode for Relcomcd: General Comments
Sampling Result ID: 350850
Feature Id: 0
Hazard Release Id: 388308
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.5-4.0 ft bgs
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: 686.00
Sample Comment: up to 686 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil
Sampling Result ID: 350860
Feature Id: 0
Hazard Release Id: 388308
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 8-9 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: 12300.00
Sample Comment: up to 12,300 ppm
Last Update By: KDANA
Update Date: 07/28/2016
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388309
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319256
Sub Alias Name:	PB
Comment ID:	305765
Release Code:	Data Sources
Release Comments:	EMCON Phase 2 Investigation and AMEC Phase 2 ESA
Decode for Relcomcd:	Data Sources
Comment ID:	305766
Release Code:	General Comments
Release Comments:	Highest concentrations detected in Boring B-3 (2.5-4.0 ft bgs) and Boring B-6 (14-15 ft bgs)
Decode for Relcomcd:	General Comments
Sampling Result ID:	350851
Feature Id:	0
Hazard Release Id:	388309
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	2.5-4.0 ft bgs
Start Date:	12/30/2014
End Date:	12/30/2014
Min Concentration:	Not reported
Max Concentration:	435.00
Sample Comment:	up to 435 ppm
Last Update By:	KDANA
Update Date:	07/21/2016
Decode for MediumID:	Soil
Sampling Result ID:	350857
Feature Id:	0
Hazard Release Id:	388309
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	14-15 ft bgs
Start Date:	05/19/2016
End Date:	05/19/2016
Min Concentration:	Not reported
Max Concentration:	1590.00
Sample Comment:	up to 1,590 ppm
Last Update By:	KDANA
Update Date:	07/27/2016
Decode for MediumID:	Soil
Sampling Result ID:	350858
Feature Id:	0
Hazard Release Id:	388309
Medium:	699
Substance Abbrev.:	0
Unit Code:	109
Observation:	False

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Owner Operator: False
Lab Data: True
Sample Depth: 14-15 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: 2.14
Sample Comment: up to 2.14 mg/l
Last Update By: KDANA
Update Date: 07/27/2016
Decode for MediumID: Leachate

Substance ID.: 121374
Haz Release ID: 388310
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305767
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305768
Release Code: General Comments
Release Comments: Highest concentrations detected in Boring B-3
Decode for Relcomcd: General Comments
Sampling Result ID: 350852
Feature Id: 0
Hazard Release Id: 388310
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.5-4.0 ft bgs

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: .20
Sample Comment: up to 0.196 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil
Sampling Result ID: 350853
Feature Id: 0
Hazard Release Id: 388310
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15.0-16.5 ft bgs
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: 6.88
Sample Comment: up to 6.88 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 388311
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305769
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305770
Release Code: General Comments
Release Comments: Highest concentration detected in Boring B-3
Decode for Relcomcd: General Comments
Sampling Result ID: 350854
Feature Id: 0
Hazard Release Id: 388311
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15.0-16.5 ft bgs
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: 5.71
Sample Comment: up to 5.71 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388312
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Comment ID: 305771
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305772
Release Code: General Comments
Release Comments: Highest concentration detected in Boring B-3
Decode for Relcomcd: General Comments
Sampling Result ID: 350855
Feature Id: 0
Hazard Release Id: 388312
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15.0-16.5
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: .64
Sample Comment: up to 0.636 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388313
Qty Released: unknown
Date Released: unknown
Update Date: 07/21/2016
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 305773
Release Code: Data Sources
Release Comments: EMCON Phase 2 Investigation
Decode for Relcomcd: Data Sources
Comment ID: 305774
Release Code: General Comments
Release Comments: Highest concentration detected in Boring B-3

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Decode for Relcomcd: General Comments
Sampling Result ID: 350856
Feature Id: 0
Hazard Release Id: 388313
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15.0-16.5 ft bgs
Start Date: 12/30/2014
End Date: 12/30/2014
Min Concentration: Not reported
Max Concentration: 3.19
Sample Comment: up to 3.19 ppm
Last Update By: KDANA
Update Date: 07/21/2016
Decode for MediumID: Soil

Substance ID.: 121623
Haz Release ID: 388314
Qty Released: unknown
Date Released: unknown
Update Date: 07/27/2016
Update By: KDANA
Substance Code: 74-82-8
Substance Name: METHANE
Substance Abbrev.: Not reported
Comment ID: 305908
Release Code: Data Sources
Release Comments: AMEC Phase 2 ESA
Decode for Relcomcd: Data Sources
Comment ID: 305775
Release Code: Media Contamination Footnote
Release Comments: Soil gas sample
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350859
Feature Id: 0
Hazard Release Id: 388314
Medium: 697
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 4.95% by volume
Last Update By: KDANA
Update Date: 07/28/2016
Decode for MediumID: Air

Substance ID.: 121982

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Haz Release ID: 388315
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2016
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305776
Release Code: Data Sources
Release Comments: AMEC Phase 2 ESA
Decode for Relcomcd: Data Sources
Comment ID: 305777
Release Code: General Comments
Release Comments: Soil concentration from Boring B-9. Groundwater concentration from Boring B-6.
Decode for Relcomcd: General Comments
Sampling Result ID: 350861
Feature Id: 0
Hazard Release Id: 388315
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 8-9 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: 14200.00
Sample Comment: up to 14,200 ppm
Last Update By: KDANA
Update Date: 07/28/2016
Decode for MediumID: Soil
Sampling Result ID: 350862
Feature Id: 0
Hazard Release Id: 388315
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Min Concentration: Not reported
Max Concentration: 820.00
Sample Comment: up to 820 ppb
Last Update By: KDANA
Update Date: 07/28/2016
Decode for MediumID: Groundwater

Substance ID.: 121983
Haz Release ID: 388316
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2016
Update By: KDANA
Substance Code: ECD173
Substance Name: GASOLINE
Substance Abbrev.: Not reported
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305778
Release Code: Data Sources
Release Comments: AMEC Phase 2 ESA
Decode for Relcomcd: Data Sources
Comment ID: 305779
Release Code: General Comments
Release Comments: Highest concentration detected in Boring B-9
Decode for Relcomcd: General Comments
Sampling Result ID: 350863
Feature Id: 0
Hazard Release Id: 388316
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 8-9 ft bgs
Start Date: 05/19/2016
End Date: 05/19/2016
Min Concentration: Not reported
Max Concentration: 485.00
Sample Comment: up to 485 ppm
Last Update By: KDANA
Update Date: 07/28/2016
Decode for MediumID: Soil

Narrative:
NARR ID: 5756325
NARR Code: Contamination
Created By: KDANA
Created Date: 07/25/2016

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Updated By: KDANA
Updated Date: 07/24/2019
Decode for NarcdID: Contamination
NARR Comments: (07/24/2019 KPD/VCP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from two test pits at the site in October 1998 and were analyzed for diesel, oil and lead, finding up to 360 ppm oil and 280 ppm lead. Four borings were advanced at the site in late December 2014 as part of an environmental assessment for the Portland Development Commission. Heavy oils and lead were detected in the northeast quarter of the site along with high concentrations of PAHs. Five additional borings were advanced at the site in May 2016 on behalf of a prospective purchaser (Innovative Housing). High concentrations of diesel and oils were detected in the northwest corner of the site, along with a high lead level at the east end of the site. Elevated concentrations of arsenic were present across the site. Soil gas monitoring for methane found elevated concentrations that decreased rapidly over time, suggesting residual pockets of methane rather than a continuous source. A total of 32 soil samples were collected from 18 borings in May and June 2017 to determine the extent of clean and contaminated soils at the site. Elevated concentrations of arsenic and lead were present in a third of the samples.

NARR ID: 5756108
NARR Code: Data Sources
Created By: KDANA
Created Date: 05/04/2016
Updated By: KDANA
Updated Date: 04/02/2019
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> for Hoyt Street Development [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 4) NW Geotech <quot>Phase 2 Environmental Site Assessment<quot> [January 21, 2015]. 5) Amec Foster Wheeler <quot>Phase 1 Environmental Site Assessment<quot> [February 19, 2016]. 6) Amec Foster Wheeler <quot>Phase 2 Environmental Site Assessment<quot> [June 29, 2016]. 7) Amec Foster Wheeler <quot>Contaminated Media Management Plan<quot> [January 20, 2017]. 8) Wood <quot>Closeout Report<quot> [February 7, 2019]. 9) DEQ <quot>Staff Closure Memo<quot> [March 26, 2019].

NARR ID: 5756623
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 02/23/2017
Updated By: KDANA
Updated Date: 02/23/2017
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum products, arsenic, lead, and methane

NARR ID: 5756071
NARR Code: Site Location
Created By: KDANA
Created Date: 04/13/2016

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Updated By: KDANA
Updated Date: 04/13/2016
Decode for NarcdID: Site Location
NARR Comments: The site covers the SW quarter of the city block bounded by NW Savier Street to the north, NW Raleigh Street to the south, NW 13th Avenue to the east, and NW 14th Avenue to the west.

NARR ID: 5756622
NARR Code: Manner of Release
Created By: KDANA
Created Date: 02/23/2017
Updated By: KDANA
Updated Date: 02/23/2017
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of release unknown

NARR ID: 5757423
NARR Code: Media Contamination
Created By: KDANA
Created Date: 03/19/2019
Updated By: KDANA
Updated Date: 03/19/2019
Decode for NarcdID: Media Contamination
NARR Comments: Soil and soil gas

NARR ID: 5756321
NARR Code: Site Ownership
Created By: KDANA
Created Date: 07/21/2016
Updated By: KDANA
Updated Date: 03/19/2019
Decode for NarcdID: Site Ownership
NARR Comments: Hoyt Street Properties donated the site to the City of Portland in April 2015 for development of affordable housing. Innovative Housing subsequently acquired the site and constructed the Vibrant Apartments. Not reported

NARR ID: 5757424
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 03/19/2019
Updated By: KDANA
Updated Date: 03/19/2019
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site were described as 20 feet of fill underlain by native sandy silts. The fill consisted of a mixture of clayey and sandy silts, interbedded (on the north half of the site) with layers of wood pulp and sawdust 3-6 feet thick. Groundwater was first encountered 10-19 feet bgs. The flow direction was not determined but is expected to be toward the Willamette River, about 750 feet northeast of the site.

NARR ID: 5756624
NARR Code: Remedial Action
Created By: KDANA
Created Date: 02/23/2017
Updated By: KDANA

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Updated Date: 07/24/2019
Decode for NarcdID: Remedial Action
NARR Comments: (07/24/2019 KPD/VCP) A total of 3,906 tons of contaminated soils and wood wastes were excavated from the site in July and August 2017. The excavations extended from six to 15 feet bgs, with deeper excavations on the north half of the site to remove the wood wastes. The excavations also extended 14-15 feet bgs along the entire length of 14th Avenue and along most of Raleigh Street to replace utility lines beneath the sidewalks. The deeper excavations were subsequently backfilled with imported clean soils. A 60-mil high-density polyethylene (HDPE) vapor barrier was installed across the building foundation as an additional protective measure given the initial methane detections at the site. The Vibrant Apartments opened for occupancy in March 2019.

NARR ID: 5756324
NARR Code: Site History
Created By: KDANA
Created Date: 07/25/2016
Updated By: KDANA
Updated Date: 02/02/2017
Decode for NarcdID: Site History
NARR Comments: As of 1889 the site was part of the larger Willamette Steam Mills Lumbering and Manufacturing Company site and was used for lumber storage. In the late 1930s the site was occupied by Willis E. Sumner Fuel. The adjacent property to the east was occupied by a variety of railroad shops (including a pipe shop, electrical shop, tool house, oil house, and welding shop) from at least 1955 to 1985. The adjacent property to the north was occupied by a variety of manufacturing companies (manufacturing batteries, brake liners, and nuts and bolts) from at least 1950 to 1980. From the 1950s through the 1980s the subject site appeared to be used as storage or overflow for one or both of these adjacent sites.

NARR ID: 5757425
NARR Code: 1922
Created By: KDANA
Created Date: 03/20/2019
Updated By: KDANA
Updated Date: 04/11/2019
Decode for NarcdID: Current Site Summary Statement
NARR Comments: This site was part of the Hoyt Street Railyard from 1911 to 1998, and was acquired by Hoyt Street Properties (HSP) in 1994 for urban residential redevelopment. HSP donated the site to the City of Portland in 2015 for development of affordable housing. Raleigh Housing entered into a Prospective Purchaser Agreement with DEQ in 2017 to clean up and redevelop the site. Over 3,900 tons of soils were excavated from the site in the summer of 2017, and the 12-story Vibrant Apartments building was constructed on the site. Residual contaminated soils remain at the site, but are capped by the building foundation and sidewalks. A 60-mil HDPE vapor barrier is also present beneath the building as an additional protective measure. A License and Declaration of Restrictions was recorded on the property deed requiring long-term maintenance of the cap and notification to DEQ if the cap is penetrated.

Site Control:
Site Control #: 1065

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Control Number: 3
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 08/13/2015
Last Update By: KDANA
Last Updated Date: 07/14/2016
Site Comment: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Site Control #: 1066
Control Number: 4
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 08/13/2015
Last Update By: KDANA
Last Updated Date: 07/14/2016
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 1067
Control Number: 5
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 08/13/2015
Last Update By: KDANA
Last Updated Date: 07/14/2016
Site Comment: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Site Control #: 1068
Control Number: 20
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/03/2020
Last Update By: KDANA
Last Updated Date: 12/23/2020
Site Comment: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Administrative Action:
Action ID: 9424
Region: Not reported

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Complete Date: 04/13/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/13/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 07/13/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/13/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 08/13/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/04/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9464
Region: Northwestern Region
Complete Date: 07/13/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: Not reported

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 06/29/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Not reported

Action ID: 9492
Region: Northwestern Region
Complete Date: 06/30/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 08/11/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/19/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9414
Region: Northwestern Region
Complete Date: 06/26/2019
Rank Value: Not reported

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Cleanup Flag: False
Created Date: 07/24/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Certification of Completion
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 07/24/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/24/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135953
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 04/13/2016
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199377
SIC Code: 4011
Created By: KDANA
Created Date: 04/13/2016

Enginering Control:
Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1068
Site Id: 6103
Control Sequence #: 20
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/03/2020
Last Updated By: KDANA
Last Updated Date: 12/23/2020
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanent feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Institutional Control:
Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1067
Site Id: 6103
Control Sequence #: 5
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 08/13/2015
Last Updated By: KDANA
Last Updated Date: 07/14/2016
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1065
Site Id: 6103
Control Sequence #: 3
Begin Date: 08/13/2015
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 08/13/2015
Last Updated By: KDANA
Last Updated Date: 07/14/2016
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Type Code:	I
Type Description:	Institutional
Comments:	<quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.
Name:	HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address:	1620 NW 14TH AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1066
Site Id:	6103
Control Sequence #:	4
Begin Date:	08/13/2015
End Date:	Not reported
Frequency Of Review:	60
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	08/13/2015
Last Updated By:	KDANA
Last Updated Date:	07/14/2016
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	No use of groundwater at the property for consumption or other beneficial use.

VCS:

Name:	HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address:	1620 NW 14TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6103
Facility Size:	0.23 acres
Action:	REMOVAL ASSESSMENT
Start Date:	05/01/2017
End Date:	06/30/2017
Program:	VCP
Latitude:	45.5345
Longitude:	-122.6853
Name:	HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address:	1620 NW 14TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6103
Facility Size:	0.23 acres
Action:	No Further Action (Conditional)
Start Date:	07/24/2019
End Date:	07/24/2019
Program:	VCP
Latitude:	45.5345
Longitude:	-122.6853
Name:	HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address:	1620 NW 14TH AVE.

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: REMOVAL
Start Date: 07/05/2017
End Date: 08/11/2017
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: NEGOTIATIONS
Start Date: 04/01/2016
End Date: 07/13/2017
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: Institutional Control
Start Date: 08/13/2015
End Date: 08/13/2015
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: SITE EVALUATION
Start Date: 04/01/2016
End Date: Not reported
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: Prospective Purchaser Agreement
Start Date: 07/13/2017
End Date: 07/13/2017
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER) (Continued) **S118673052**

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: Certification of Completion
Start Date: 06/26/2019
End Date: 06/26/2019
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6103
Facility Size: 0.23 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 06/29/2016
End Date: 06/29/2016
Program: VCP
Latitude: 45.5345
Longitude: -122.6853

OR BROWNFIELDS:
Name: HOYT STREET RAILYARD - BLOCK 26 (SW QUARTER)
Address: 1620 NW 14TH AVE.
City,State,Zip: PORTLAND, OR 97209
Geolocation Id: 140169
Status: No Further Action (Conditional)
Lat/Long: 45.5345 / -122.685

C15 **HOYT STREET RAILYARD - BLOCK 17** **OR ECSI** **S115330274**
South **1315 NW 11TH AVE.** **OR ENG CONTROLS** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR INST CONTROL**
0.088 mi. **OR VCP**
467 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
38 ft.

ECSI:
Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 5867
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: No Further Action
FACA ID: 129953
Further Action: 0
Lat/Long (dms): 45 31 57.00 / -122 40 57.70
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: 2630, 2631, 2632, 2633
Size: 0.92 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 09/29/2016
Created Date: 12/18/2013
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Block 17 Urban Development

Hazardous Release:
Substance ID.: 121462
Haz Release ID: 388261
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305693
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-22 (2003) and EB-6D (2013)
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305694
Release Code: Data Sources

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Release Comments: June 2004 Anchor Environmental Construction Report and August 2013 Terracon Limited Site Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350770
Feature Id: 0
Hazard Release Id: 388261
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 2.66
Sample Comment: up to 2.66 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350778
Feature Id: 0
Hazard Release Id: 388261
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 25 ft bgs
Start Date: 07/18/2013
End Date: 07/19/2013
Min Concentration: Not reported
Max Concentration: 2.10
Sample Comment: up to 2.1 ppm
Last Update By: KDANA
Update Date: 10/28/2015
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388262
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305695
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-22 (2003) and EB-6D (2013)
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305696
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report and August 2013 Terracon Limited Site Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350771
Feature Id: 0
Hazard Release Id: 388262
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 1.87
Sample Comment: up to 1.87 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350779
Feature Id: 0
Hazard Release Id: 388262
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 25 ft bgs
Start Date: 07/18/2013
End Date: 07/19/2013
Min Concentration: Not reported
Max Concentration: 1.90
Sample Comment: up to 1.9 ppm
Last Update By: KDANA
Update Date: 10/28/2015
Decode for MediumID: Soil

Substance ID.: 121192

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Haz Release ID: 388263
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 305697
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-22 (2003) and EB-6D (2013)
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305698
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report and August 2013 Terracon Limited Site Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350772
Feature Id: 0
Hazard Release Id: 388263
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 1.03
Sample Comment: up to 1.03 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350780
Feature Id: 0

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Hazard Release Id: 388263
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 25 ft bgs
Start Date: 07/18/2013
End Date: 07/19/2013
Min Concentration: Not reported
Max Concentration: 1.50
Sample Comment: up to 1.5 ppm
Last Update By: KDANA
Update Date: 10/28/2015
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388264
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 305699
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-22 (2003) and EB-6D (2013)
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305700
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report and August 2013 Terracon Limited Site Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350773
Feature Id: 0
Hazard Release Id: 388264
Medium: 703

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: .28
Sample Comment: up to 0.278 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350781
Feature Id: 0
Hazard Release Id: 388264
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 25 ft bgs
Start Date: 07/18/2013
End Date: 07/18/2013
Min Concentration: Not reported
Max Concentration: .18
Sample Comment: up to 0.18 ppm
Last Update By: KDANA
Update Date: 10/28/2015
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388265
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 305701

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-22 (2003) and EB-6D (2013)
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305702
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report and August 2013 Terracon Limited Site Investigation
Decode for Relcomcd: Data Sources
Sampling Result ID: 350774
Feature Id: 0
Hazard Release Id: 388265
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5-10 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: .89
Sample Comment: up to 0.885 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350782
Feature Id: 0
Hazard Release Id: 388265
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 25 ft bgs
Start Date: 07/18/2013
End Date: 07/19/2013
Min Concentration: Not reported
Max Concentration: .59
Sample Comment: up to 0.59 ppm
Last Update By: KDANA
Update Date: 10/28/2015
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388266
Qty Released: unknown
Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305703
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in B-20
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305704
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350775
Feature Id: 0
Hazard Release Id: 388266
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 3260.00
Sample Comment: up to 3,260 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil
Sampling Result ID: 350776
Feature Id: 0
Hazard Release Id: 388266
Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 4.11
Sample Comment: up to 4.11 mg/l
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Leachate

Substance ID.: 121989
Haz Release ID: 388267
Qty Released: unknown

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Date Released: unknown
Update Date: 10/13/2015
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305705
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in B-23
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305706
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350777
Feature Id: 0
Hazard Release Id: 388267
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-14 ft bgs
Start Date: 05/15/2003
End Date: 05/15/2003
Min Concentration: Not reported
Max Concentration: 931.00
Sample Comment: up to 931 ppm
Last Update By: KDANA
Update Date: 10/13/2015
Decode for MediumID: Soil

Narrative:
NARR ID: 5754981
NARR Code: Contamination
Created By: CHARMAN
Created Date: 01/13/2014
Updated By: KDANA
Updated Date: 03/16/2016
Decode for NarcdID: Contamination
NARR Comments: (03/10/2016 KPD/ICP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from test pits at the site in October 1998 and were analyzed for diesel, oil and lead, finding up to 290 ppm oil and 300 ppm lead. Additional soil samples were collected from 12 borings advanced through the streets around the block in May 2003. Oil (up to 931 ppm) and lead (up to 3,260 ppm) were detected, along with PAHs.

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Ten borings were advanced on the block in January 2013, and three soil samples were collected from each boring to depths of 12 ft bgs. The 30 soil samples were analyzed for petroleum and PAHs, along with either total lead or metals and VOCs. Low levels of oil, lead and PAHs were detected. Ten additional borings were advanced to 28 ft bgs in July 2013, and three soil samples were collected from each boring from 12-28 ft bgs. All 30 soil samples were analyzed for diesel, oil, PAHs and lead. Generally low levels of contaminants were detected.

NARR ID: 5755819
NARR Code: Data Sources
Created By: KDANA
Created Date: 09/30/2015
Updated By: KDANA
Updated Date: 03/02/2016
Decode for NarcdID: Data Sources
NARR Comments: 1) EMCON <quot>Results of Phase 2 Supplemental Soil Investigation<quot> [December 18, 1998]. 2) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 3) Anchor <quot>Environmental Construction Report<quot> [June 2004]. 4) Terracon <quot>Limited Site Investigation<quot> [August 8, 2013]. 5) Terracon <quot>Revised Soil Management Plan<quot> [December 6, 2013]. 6) Terracon <quot>Soil Management Report<quot> [July 29, 2015]. 7) DEQ <quot>Staff Closure Memo<quot> [February 25, 2016].

NARR ID: 5755838
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 10/14/2015
Updated By: KDANA
Updated Date: 10/14/2015
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Polycyclic aromatic hydrocarbons (PAH), heavy oils, and lead

NARR ID: 5755623
NARR Code: Site Location
Created By: KDANA
Created Date: 03/26/2015
Updated By: KDANA
Updated Date: 09/30/2015
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Pettygrove Street to the north, NW Overton Street to the south, NW 11th Avenue to the east, and NW 12th Avenue to the west.

NARR ID: 5756014
NARR Code: Manner of Release
Created By: KDANA
Created Date: 02/29/2016
Updated By: KDANA
Updated Date: 02/29/2016
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5755622
NARR Code: Site Ownership
Created By: KDANA

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Created Date: 03/26/2015
Updated By: KDANA
Updated Date: 11/03/2015
Decode for NarcdID: Site Ownership
NARR Comments: The site was owned by Burlington Northern Santa Fe (BNSF) Railway Company and its predecessors from the early 1900s until 1988. The site was acquired for redevelopment by Hoyt Street Properties, LLC in 1994. Hoyt Street transferred the site to Block 17 Holdings, LLC around January 2014.

NARR ID: 5755839
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 10/14/2015
Updated By: KDANA
Updated Date: 02/29/2016
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site were generally a sandy silt fill to 4 ft bgs, underlain by sand (4-24 ft bgs) and clay (24-28 ft bgs). Groundwater was encountered at about 20 ft bgs. Groundwater flows northeast toward the Willamette River, approximately 750 ft from the site. Stormwater is directed to the City of Portland's combined sewer system.

NARR ID: 5755878
NARR Code: Remedial Action
Created By: KDANA
Created Date: 11/03/2015
Updated By: KDANA
Updated Date: 03/16/2016
Decode for NarcdID: Remedial Action
NARR Comments: (03/10/2016 KPD/ICP) Between May 2003 and February 2004, Block 17 and surrounding blocks and streets were raised several feet with imported clean fill as part of the remediation of the Hoyt Street Railyard (ECSI #1080). With the exception of the pre-existing NW 12th Avenue, geotextile markers and five feet of fill were placed beneath the streets around Block 17 to provide clean utility corridors. Construction on Block 17 began in February 2014. Excavations for the building foundation and two levels of subgrade parking were conducted from February through November 2014. The excavation pit covered an area 200 ft x 200 ft and extended 17-24 ft bgs. Additional excavations for stormwater lines and vaults were conducted in May 2015. A total of 43,785 tons (29,600 cubic yards) of soils were removed from the site and shipped to the Hillsboro Landfill for disposal. Approximately 6,258 tons of clean fill (aggregate) were brought onto the site for use as backfill. All soils outside the building foundation were covered by a geotextile marker and five feet of clean fill, and capped with sidewalks or landscaping.

NARR ID: 5756013
NARR Code: Health Threats
Created By: KDANA
Created Date: 02/29/2016
Updated By: GWISTAR
Updated Date: 03/22/2017
Decode for NarcdID: Health Threats
NARR Comments: Residual concentrations of PAHs and other soil contaminants posed

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

potential direct contact risks to urban residents and occupants of Block 17. To address the risks, the site was capped with buildings, pavement, and/or five feet of clean soil. A License and Declaration of Restrictions requiring maintenance of the cap was recorded with the Block 17 property deed in December 2013.

NARR ID: 5754983
NARR Code: Site History
Created By: CHARMAN
Created Date: 01/13/2014
Updated By: KDANA
Updated Date: 02/29/2016
Decode for NarcdID: Site History
NARR Comments: The area around the site was originally occupied by Couch Lake and surrounding marshlands. The area was filled in with 10-20 feet of material around 1900. The Hoyt Street Railyard was established by 1911 and operated by Burlington Northern Railroad and its predecessors. In 1994 the railyard was sold to Hoyt Street Properties, LLC for redevelopment. Hoyt Street leased the railyard to Burlington Northern from 1994 through 1998, after which rail activity ceased. In August 1995 Burlington Northern signed an Order on Consent with DEQ to investigate and clean up environmental contamination at the railyard. Burlington Northern completed a Remedial Investigation in October 1996, a Risk Assessment in February 1998, and a Feasibility Study in July 1999. DEQ issued a Record of Decision for the railyard in December 2000.

Site Control:
Site Control #: 1083
Control Number: 4
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 1084
Control Number: 5
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Site Control #: 1085
Control Number: 20
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Last Reviewed Date: 12/13/2013
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanant feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Site Control #: 984
Control Number: 3
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: KDANA
Last Updated Date: 11/21/2016
Site Comment: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/18/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/18/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9433
Region: Northwestern Region
Complete Date: 03/10/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/18/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 03/10/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/16/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135934
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 11/03/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199369
SIC Code: 4011
Created By: KDANA
Created Date: 03/26/2015

Enginering Control:
Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1085
Site Id: 5867
Control Sequence #: 20
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: KDANA
Last Updated Date: 11/21/2016
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, no operations or uses shall be made on or of the Property that will or likely will penetrate any surface cover required under the ROD or jeopardize the cover's functional integrity, including without limitation any excavation, drilling, scraping, or erosion. The Owner of the Property shall maintain the surface cover and any other permanant feature of the remedy described in the ROD in accordance with the Monitoring and Maintenance Plan approved in writing by DEQ for the Property pursuant to the Consent Decree.

Institutional Control:
Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1083
Site Id: 5867
Control Sequence #: 4
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: KDANA
Last Updated Date: 11/21/2016
Group Sequence #: 2
Control Code: USG
Control Description: Use Restriction Groundwater
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: No use of groundwater at the property for consumption or other beneficial use.

Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 984
Site Id: 5867
Control Sequence #: 3
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: KDANA
Last Updated Date: 11/21/2016
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: <quot>License and Declaration of Restrictions<quot>, recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1084
Site Id: 5867
Control Sequence #: 5
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: KDANA
Last Updated Date: 11/21/2016
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

VCS:
Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5867
Facility Size: 0.92 acres
Action: No Further Action (Conditional)
Start Date: 03/10/2016
End Date: 03/10/2016
Program: ICP
Latitude: 45.5325
Longitude: -122.6827

Name: HOYT STREET RAILYARD - BLOCK 17
Address: 1315 NW 11TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5867
Facility Size: 0.92 acres
Action: Institutional Control
Start Date: 12/13/2013
End Date: Not reported
Program: ICP
Latitude: 45.5325
Longitude: -122.6827

Name: HOYT STREET RAILYARD - BLOCK 17

HOYT STREET RAILYARD - BLOCK 17 (Continued) **S115330274**

Address:	1315 NW 11TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5867
Facility Size:	0.92 acres
Action:	INDEPENDENT CLEANUP
Start Date:	12/13/2013
End Date:	03/10/2016
Program:	ICP
Latitude:	45.5325
Longitude:	-122.6827

F16 **HEATING OIL TANK** **OR LUST** **S100500562**
WSW **1428 NW 14TH** **N/A**
< 1/8 **PORTLAND, OR 97209**
0.097 mi.
513 ft. **Site 1 of 5 in cluster F**

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1428 NW 14TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-90-0213
Cleanup Received Date:	06/12/1990
Cleanup Start Date:	06/12/1990
Cleanup Complete Date:	**10/23/1990**
Decode for Region:	**North West Region**

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17 **HOYT ST. RAIL YARD - THE FIELDS** **OR CRL** **S110764046**
SE **EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.** **OR ECSI** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR ENG CONTROLS**
0.098 mi. **OR INST CONTROL**
518 ft. **OR VCP**
OR BROWNFIELDS

Relative:
Lower

Actual:
35 ft.

CRL:

Name:	HOYT ST. RAIL YARD - THE FIELDS
Address:	EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip:	PORTLAND, OR 97209
Facility ID:	5443
Location ID:	118896
Status Code:	LIS
Facility Status:	No Further Action (Conditional)
Lat/Long:	45.5327 / -122.6817

ECSI:

Name:	HOYT ST. RAIL YARD - THE FIELDS
Address:	EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5443
Brown ID:	Brownfield Site - No Public Sector Assistance
Study Area:	False
Region ID:	Not reported
Legislatve ID:	0
Investigation:	Listed on the CRL/Inventory
FACA ID:	118896

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Further Action: 258
Lat/Long (dms): 45 31 57.70 / -122 40 54.10
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 27
Qtr Section: Not reported
Tax Lots: tax lot 1N1E34BB 2629
Size: 3.3 acres
NPL: False
Orphan: False
Updated By: RWELLS
Update Date: 02/26/2019
Created Date: 11/05/2010
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - no Public Sector Assistance
Decode For Furtheract: Medium
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Not reported
Alias Name: Hoyt Street Railyard - Blocks 19, 21, 22, 25

Narrative:
NARR ID: 5755022
NARR Code: Site Contacts
Created By: RWELLS
Created Date: 02/18/2014
Updated By: RWELLS
Updated Date: 05/20/2014
Decode for NarcdID: Site Contacts
NARR Comments: Portland Bureau of Parks and Recreation Georgy Lozovoy Project Manager 1120 SW 5th Avenue, Suite 1302 Portland OR 97204 george.lozovoy@portlandoregon.gov Portland Development Commission Colin Polk (503) 823-3211 222 NW 5th Ave Portland, OR 97209

NARR ID: 5752614
NARR Code: Contamination
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 08/15/2013
Decode for NarcdID: Contamination
NARR Comments: PAHs and metals in soil.

NARR ID: 5755023
NARR Code: Data Sources
Created By: RWELLS
Created Date: 02/18/2014
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Data Sources
NARR Comments: Record of Decision, Selected Remedial Action for Hoyt Street Rail Yard, Portland, Oregon; DEQ, December 15, 2000. AMEC, April 3, 2013. Letter to Rebecca Wells-Albers, DEQ, RE: Fields Neighborhood Park Children s Area Construction Completion, Portland Oregon. Remedial

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Action Work Plan, The Fields Neighborhood Park, NW 11th Avenue and NW Overton Street, Portland, Oregon; AMEC, April 13, 2011. Remedial Action Closure Report, The Fields Neighborhood Park (ECSI # 5443), Northwest of NW 11th Avenue and NW Overton Street, Portland, Oregon; AMEC, July, 2013. Easement and Equitable Servitudes, City of Portland Bureau of Parks and Recreation; November 7, 2013. Portland Parks and Recreation Bureau website for The Fields: http://www.portlandoregon.gov/parks/article/288501

NARR ID: 5752613
NARR Code: General Site Description
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 02/24/2017
Decode for NarcdID: General Site Description
NARR Comments: The Fields site is governed by the Record of Decision (ROD) for the Hoyt Street Railyard (HSRY) Property, dated December 15, 2000. The site consists of blocks 18, 21, 22, and 25 that are located on the northeast section of the HSRY site north of Overton Street and east of NW 11th Avenue. Remediation of groundwater at the site is being performed under a Consent Order and Consent Decree between DEQ and Burlington Northern Santa Fe Railway (BNSF) and is not associated with the remedial action performed at The Fields. The remedial action for soil included : excavation and treatment and/or landfill disposal of hot spot soils; excavation, stabilization (as needed), and landfill disposal of soil containing lead and classified as hazardous waste; excavation in utility corridors where concentrations exceed construction worker RBCs in the upper 5 feet of soil; capping the site with either hardscape (pavement, buildings) or clean soil to a depth of 2 feet in the park area and 3 feet in the childrens' play area; developing a park user RBC for the greater park area. An Easement and Equitable Servitude (EES) was filed with Multnomah County in November, 2013. The EES restricts groundwater use, the construction of habitable structures on the property, and disturbance of the soil/hardscape site cap. The remedial action was conducted as part of park develpoment and was completed in May, 2013. DEQ issued a conditional No Further Action determination and Partial Certificate of Completion for the site in June, 2014. Annual cap inspections have been performed since 2014. The current cap inspection is available on WebDocs below.

NARR ID: 5755033
NARR Code: Hazardous Substance/Waste Types
Created By: RWELLS
Created Date: 02/20/2014
Updated By: RWELLS
Updated Date: 02/20/2014
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum, Polycyclic Aromatic Hydrocarbons (PAHs), and metals in soil.

NARR ID: 5752618
NARR Code: Land Use (Current/Reasonably Likely)
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Updated Date: 02/18/2014
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Open Space, Public Park

NARR ID: 5752616
NARR Code: Site Location
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 02/12/2014
Decode for NarcdID: Site Location
NARR Comments: The site is located at NW 11th Avenue and NW Overton Street in the Nortwest district of downtown Portland. The site consists of blocks 18, 21, 22, and 25, tax lot 1N1E34BB 2629.

NARR ID: 5755032
NARR Code: Manner of Release
Created By: RWELLS
Created Date: 02/20/2014
Updated By: RWELLS
Updated Date: 02/20/2014
Decode for NarcdID: Manner of Release
NARR Comments: From 1911 to 1994, the site was owned by BNSF and operated as a fueling and maintenance facility. Underground and above-ground petroleum storage tanks were present until the rail yard was abandoned and dismantled in the late 1990s. Concentrations of petroleum, polycyclic and aromatic hydrocarbons, and metals were found in soil and groundwater during previous site investigation. Groundwater remediation is being conducted as part of the Hoyt Street Rail Yard site investigation and under a Consent Order and Consent Decree between DEQ and BNSF.

NARR ID: 5752617
NARR Code: Media Contamination
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 12/15/2010
Decode for NarcdID: Media Contamination
NARR Comments: Soils

NARR ID: 5755025
NARR Code: Project Activity Status
Created By: RWELLS
Created Date: 02/18/2014
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Project Activity Status
NARR Comments: The Fields Park was opened to the public on May 6, 2013. Contaminated Special Handling soil containing concentrations of petroleum, PAHs, and metals remain on the property beneath demarcation fabric and a minimum of two-feet bgs in the Greater Park Area and a minimum of three-feet bgs in the Children s Area. An EES was filed with Multnomah County in November 2013 that required maintenance, inspection, and protection of the site cap, notification and protection to site workers, and restrictions for groundwater use and/or the construction of habitable structures at the site. Annual

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

cap inspections will be conducted annually and reports sent to DEQ. DEQ will also propose the site for listing on the Confirmed Release List (CRL) and Inventory.

NARR ID: 5752619
NARR Code: Pathways Other Hazards
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Dermal contact, inhalation, ingestion.

NARR ID: 5754328
NARR Code: Remedial Action
Created By: RWELLS
Created Date: 12/03/2012
Updated By: RWELLS
Updated Date: 10/14/2014
Decode for NarcdID: Remedial Action
NARR Comments: A Remedial Action Work Plan (RAP) and Contaminated Media Management Plan (CMMP) were submitted by AMEC, on behalf of the City of Portland in April 2013, and subsequently approved by DEQ. In addition to presenting the plan for implementing the remedial actions during development of the park, the RAP also included a Soil Data Summary Report that compared the site cap PAH soil concentrations to the site-specific RBCs approved in the ESD. This information was used to determine the design of the protective cap elements at the park, described below. In July 2013, a Remedial Action Closure Report was submitted by AMEC that discussed the remedial actions completed at the site between April 2012 and December 2013. The Closure Report also included a Site Inspection and Maintenance Plan, Worker Notification and Protection Plan, and Soil and Groundwater Management Plan to address long-term management requirements. Hot Spot Removal In April 2012, 201 tons of soil was excavated from soil sample location 18-11, where benzo(a)pyrene was detected above the site-specific RBC of 0.21 mg/kg at 0.837 mg/kg. Greater Park Area The park development plan required mass grading of the site. Concentrations of PAHs in existing cap soil for the Greater Park Area were at or below the site-specific RBCs for park users. The existing cap soil in this area did not require remediation and was designated as Managed Soil . Managed Soil was reused within the Greater Park Area to construct a minimum of a two-foot thick cap over remaining contaminated soil. Contaminated soil beneath the demarcation fabric was designated as Special Handling Soil . Special Handling Soil was reused at the site by placing it below the restored demarcation fabric, or under hardscape. Construction of utility trenches, rain gardens, and tree plantings required replacement of demarcation fabric over Special Handling Soil and/or over-excavation. Over-excavation for tree plantings was completed to a minimum of 24 inches around the rootball and was backfilled with clean fill or Managed Soil. Children s Area Concentrations of PAHs were detected above the site-specific RBCs in the Children s Area soil. Therefore, remedial action cap elements consisted of a combination of sand, blended compost, woodchips, and decomposed granite. The cap elements were a minimum of three-feet thick over the existing demarcation fabric and remaining contaminated soil. Easement and Equitable

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Servitude In November 2013, an EES was filed with the Multnomah County Circuit Court that restricted the use of site groundwater, prohibited the construction of habitable structures and required protection and maintenance of the soil cap. In addition, the EES required adherence to the Site Inspection and Maintenance Plan, Worker Notification Plan, and Soil and Groundwater Management Plan, all of which were included in the Remedial Action Work Plan. DEQ issued a partial certificate of completion and conditional No Further Action determination for the site in May, 2014, following a 30-day public comment period where no comments were received. The annual cap inspection was performed in October, 2014 with no maintenance or repairs noted. The inspection report is available on WebDocs for review and will be replaced with the 2015 cap inspection report when received.

NARR ID: 5755026
NARR Code: Residual Risk Assessment
Created By: RWELLS
Created Date: 02/18/2014
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Residual Risk Assessment
NARR Comments: The Fields Park was opened to the public on May 6, 2013. Contaminated Special Handling soil containing concentrations of petroleum, PAHs, and metals remain on the property beneath demarcation fabric and a minimum of two-feet bgs in the Greater Park Area and a minimum of three-feet bgs in the Children s Area. An EES was filed with Multnomah County in November 2013 that required maintenance, inspection, and protection of the site cap, notification and protection to site workers, and restrictions for groundwater use and/or the construction of habitable structures at the site. Annual cap inspections will be conducted annually and reports sent to DEQ. DEQ will also propose the site for listing on the Confirmed Release List (CRL) and Inventory.

NARR ID: 5755066
NARR Code: Health Threats
Created By: RWELLS
Created Date: 03/26/2014
Updated By: RWELLS
Updated Date: 03/26/2014
Decode for NarcdID: Health Threats
NARR Comments: Contaminated soil exceeding risk-based concentrations remain on the site under a protective cap of soil and demarcation layer. A deed restriction is in place requiring protection and maintenance of the site cap and a soil management plan and cap inspection will be followed by the site owners.

NARR ID: 5755024
NARR Code: Institutional Control
Created By: RWELLS
Created Date: 02/18/2014
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Institutional Control
NARR Comments: An EES was filed with Multnomah County in November 2013 that required maintenance, inspection, and protection of the site cap, notification

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

and protection to site workers, and restrictions for groundwater use and/or the construction of habitable structures at the site.

NARR ID: 5752615
NARR Code: Site History
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 02/18/2014
Decode for NarcdID: Site History
NARR Comments: Since 1911 the HSRY site operated as a railroad service yard. Fueling and maintenance activities were performed in the northern and central portions of the site. Underground and above-ground storage tanks for petroleum fuels and service buildings (including a locomotive roundhouse equipped with a turntable) were utilized in this process. Burlington Northern Santa Fe Railroad (BNSF) owned and operated the site from the early 1900s until 1988. The site was sold and successively leased back to BNSF until it was purchased by Hoyt Street Properties, LLC (HSP) in 1998. The railyard was abandoned and dismantled in 2008, and many of the blocks in the site were developed as condominiums and commercial businesses. The City of Portland Bureau of Parks and Recreation purchased the lots associated with The Fields site in 2010, and assumed responsibility for completing the remedial actions required in the Consent Decree. Remedial actions were conducted during park development, which was completed in May, 2013.

NARR ID: 5752620
NARR Code: 1922
Created By: RWELLS
Created Date: 12/15/2010
Updated By: RWELLS
Updated Date: 01/09/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [Oct. 2014] The Fields Park opened to the public on May 6, 2013. A minimum of a two-foot protective cap consisting of hardscape or soil meeting site-specific park user risk-based concentrations is present at the site. Contaminated Special Handling soil containing petroleum, PAHs, and metals remain on the property beneath demarcation fabric. An Easement and Equitable Servitude, or E&ES (posted below) was filed with Multnomah County in November 2013. It requires maintenance, inspection, and protection of the site cap, notifications to and protections of site workers, and restrictions on groundwater use and construction of habitable structures at the site. DEQ issued a conditional No Further Action determination in June 2014, indicating that as long as controls in the E&ES remain in place, the park is safe for public use. [January, 2020] Cap inspections have been conducted annually since 2014 are available for review at DEQ's NWR office. The current cap inspection is available on WebDocs below.

Site Control:
Site Control #: 647
Control Number: 37
Begin Date: 12/15/2010
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: R. Wells-Albers, DEQ
Last Reviewed Date: 12/20/2019

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Last Update By: RWELLS
Last Updated Date: 01/09/2020
Site Comment: Installation of a two-foot soil cap with chemical concentrations less than or equal to site-specific park user RBCs in all landscape soil areas and a three-foot soil cap with chemical concentrations less than or equal to urban residential child RBCs in playground structure areas. In both areas, an underlying demarcation layer is required between contaminated and capping soil. A hardscape cap consisting of buildings or pavement in lieu of a soil cap is acceptable. Cap inspection performed on 10/9/14 by City of Portland BES staff. o concerns noted, cap is intact with no maintenance work performed. Next inspection report due October 2015.

Site Control #: 1313
Control Number: 5
Begin Date: 10/09/2020
End Date: 10/09/2020
Frequency Of Review: 12
Last Reviewed By: 5/17/21
Last Reviewed Date: Not reported
Last Update By: RHOY
Last Updated Date: 05/17/2021
Site Comment: Parks inspected the CAP and provided a report to DEQ on 12/20/2020. DEQ approved the report contigent upon maintenance on the cracks observed in the sidewalks

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 11/05/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/05/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 05/02/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/05/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 06/13/2014

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/17/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: 05/31/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/15/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 06/07/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/15/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 11/14/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/18/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 03/24/2014
Rank Value: Not reported

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Cleanup Flag: False
Created Date: 03/25/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9484
Region: 0
Complete Date: 12/01/2000
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/26/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9520
Region: 0
Complete Date: 01/01/2000
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/26/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: EXPANDED PRELIMINARY ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 03/24/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/26/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 03/26/2014
Rank Value: Not reported
Cleanup Flag: False

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Created Date: 03/26/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 03/26/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/26/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 06/02/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/02/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 06/02/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/02/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 06/13/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/13/2014

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9466
Region: Northwestern Region
Complete Date: 10/09/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/14/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: Not reported

Action ID: 9466
Region: Northwestern Region
Complete Date: 12/21/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/24/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: Not reported

Action ID: 9466
Region: Northwestern Region
Complete Date: 02/26/2019
Rank Value: Not reported
Cleanup Flag: True
Created Date: 02/26/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: Medium
Comments: Not reported

Enginering Control:
Name: HOYT ST. RAIL YARD - THE FIELDS
Address: EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 647
Site Id: 5443
Control Sequence #: 37

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

Begin Date:	12/15/2010
End Date:	Not reported
Frequency Of Review:	12
Last Reviewed By:	R. Wells-Albers, DEQ
Last Review Date:	12/20/2019
Last Updated By:	RWELLS
Last Updated Date:	01/09/2020
Group Sequence #:	9
Control Code:	CPNE
Control Description:	Cap, non-engineered
FK Type Code:	2
Group Code:	SB
Group Description:	Surface Barriers
Type Code:	E
Type Description:	Engineering
Comments:	Installation of a two-foot soil cap with chemical concentrations less than or equal to site-specific park user RBCs in all landscape soil areas and a three-foot soil cap with chemical concentrations less than or equal to urban residential child RBCs in playground structure areas. In both areas, an underlying demarcation layer is required between contaminated and capping soil. A hardscape cap consisting of buildings or pavement in lieu of a soil cap is acceptable. Cap inspection performed on 10/9/14 by City of Portland BES staff. o concerns noted, cap is intact with no maintenance work performed. Next inspection report due October 2015.

Institutional Control:

Name:	HOYT ST. RAIL YARD - THE FIELDS
Address:	EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1313
Site Id:	5443
Control Sequence #:	5
Begin Date:	10/09/2020
End Date:	10/09/2020
Frequency Of Review:	12
Last Reviewed By:	5/17/21
Last Review Date:	Not reported
Last Updated By:	RHOY
Last Updated Date:	05/17/2021
Group Sequence #:	2
Control Code:	USL
Control Description:	Use Restriction Land
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Parks inspected the CAP and provided a report to DEQ on 12/20/2020. DEQ approved the report contigent upon maintenance on the cracks observed in the sidewalks

VCS:

Name:	HOYT ST. RAIL YARD - THE FIELDS
Address:	EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip:	PORTLAND, OR 97209

HOYT ST. RAIL YARD - THE FIELDS (Continued) **S110764046**

ECS Site ID: 5443
Facility Size: 3.3 acres
Action: No Further Action (Conditional)
Start Date: 06/13/2014
End Date: 06/13/2014
Program: VCP
Latitude: 45.5327
Longitude: -122.6817

Name: HOYT ST. RAIL YARD - THE FIELDS
Address: EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5443
Facility Size: 3.3 acres
Action: Periodic Review
Start Date: 02/26/2019
End Date: 02/26/2019
Program: VCS
Latitude: 45.5327
Longitude: -122.6817

Name: HOYT ST. RAIL YARD - THE FIELDS
Address: EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5443
Facility Size: 3.3 acres
Action: Institutional Control
Start Date: 11/07/2013
End Date: 11/14/2013
Program: VCP
Latitude: 45.5327
Longitude: -122.6817

Name: HOYT ST. RAIL YARD - THE FIELDS
Address: EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5443
Facility Size: 3.3 acres
Action: REMEDIAL ACTION
Start Date: 04/02/2012
End Date: 06/07/2013
Program: VCP
Latitude: 45.5327
Longitude: -122.6817

OR BROWNFIELDS:
Name: HOYT ST. RAIL YARD - THE FIELDS
Address: EAST OF NW 11TH AVE. AND NORTH OF OVERTON ST.
City,State,Zip: PORTLAND, OR 97209
Geolocation Id: 118896
Status: No Further Action (Conditional)
Lat/Long: 45.5327 / -122.681

G18 **NORTHWEST LAUNDRY MACHINERY CD** **EDR Hist Cleaner** **1009476533**
South **1301 NW 12TH AVE** **N/A**
< 1/8 **PORTLAND, OR**
0.102 mi.
541 ft. **Site 1 of 3 in cluster G**

Relative: EDR Hist Cleaner
Higher

Actual: Year: Name: Type:
39 ft. 1970 NORTHWEST LAUNDRY MACHINERY CD LAUNDRY SUPPLIES AND EQUIPMENT DEALERS

F19 **BARNEY S REPAIR** **EDR Hist Auto** **1009487015**
SW **1420 NW PETTYGROVE ST** **N/A**
< 1/8 **PORTLAND, OR**
0.104 mi.
551 ft. **Site 2 of 5 in cluster F**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
41 ft. 1965 BARNEY S REPAIR AUTOMOBILE REPAIRING

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20 **HEATING OIL TANK** **OR LUST** **S100497229**
NW **1705 NW 14TH AVE** **N/A**
< 1/8 **PORTLAND, OR 97209**
0.107 mi.
564 ft.

Relative: LUST:
Higher

Actual:
36 ft.

Name:	HEATING OIL TANK
Address:	1705 NW 14TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-90-0067
Cleanup Received Date:	02/16/1990
Cleanup Start Date:	02/16/1990
Cleanup Complete Date:	**02/27/1990**
Decode for Region:	**North West Region**

H21 **CENTENNIAL MILLS DIV - ADM MILLING CO** **OR ECSI** **1000642461**
ESE **1362 NW NAITO PKWY** **OR LUST** **N/A**
< 1/8 **PORTLAND, OR 97209** **OR UST**
0.108 mi. **OR VCP**
572 ft. **Site 1 of 2 in cluster H**

Relative: ECSI:
Lower

Actual:
33 ft.

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5136
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	831
Investigation:	Suspect
FACA ID:	4323
Further Action:	0

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Lat/Long (dms):	45 32 1.00 / -122 40 48.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	BB
Tax Lots:	100
Size:	4.75 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	12/17/2019
Created Date:	02/09/2009
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: ADM Mill

Hazardous Release:

Substance ID.:	121462
Haz Release ID:	388503
Qty Released:	unknown
Date Released:	unknown
Update Date:	02/05/2020
Update By:	KDANA
Substance Code:	56-55-3
Substance Name:	BENZO(a)ANTHRACENE
Substance Abbrev.:	Not reported
Substance Category ID:	8475
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8475
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	318790
Sub Alias Name:	BENZ(a)ANTHRACENE
Substance Alias ID:	318791
Sub Alias Name:	BENZANTHRACENE,1,2-
Substance Alias ID:	318792
Sub Alias Name:	BENZANTHRENE
Substance Alias ID:	318793
Sub Alias Name:	BENZOANTHRACENE
Substance Alias ID:	318794
Sub Alias Name:	BENZPHENANTHRENE,2,3-
Substance Alias ID:	318795
Sub Alias Name:	NAPHTHANTHRACENE
Substance Alias ID:	318796

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Sub Alias Name: TETRAPHENE
Comment ID: 305983
Release Code: General Comments
Release Comments: Highest concentrations detected in borings GP-31 (soil) and GP-E (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351119
Feature Id: 0
Hazard Release Id: 388503
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 22.10
Sample Comment: up to 22.1 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351128
Feature Id: 0
Hazard Release Id: 388503
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.3-3.0 ft bgs
Start Date: 11/09/2012
End Date: 11/09/2012
Min Concentration: Not reported
Max Concentration: 49.00
Sample Comment: up to 49.0 ppm
Last Update By: KDANA
Update Date: 06/01/2021
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388504
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305985
Release Code: General Comments
Release Comments: Highest concentrations detected in borings GP-31 (soil) and GP-E (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351120
Feature Id: 0
Hazard Release Id: 388504
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 32.10
Sample Comment: up to 32.1 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351129
Feature Id: 0
Hazard Release Id: 388504
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.3-3.0 ft bgs
Start Date: 11/09/2012
End Date: 11/09/2012
Min Concentration: Not reported
Max Concentration: 60.70
Sample Comment: up to 60.7 ppm
Last Update By: KDANA
Update Date: 06/01/2021
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 388505

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 305986
Release Code: Data Sources
Release Comments: Phase 1 & 2 ESA (2000)
Decode for Relcomcd: Data Sources
Comment ID: 305987
Release Code: General Comments
Release Comments: Highest concentrations detected in borings GP-B (soil) and GP-E (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351121
Feature Id: 0
Hazard Release Id: 388505
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 17.60
Sample Comment: up to 17.6 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351130
Feature Id: 0
Hazard Release Id: 388505

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15-16 ft bgs
Start Date: 12/09/1999
End Date: 12/09/1999
Min Concentration: Not reported
Max Concentration: 15.60
Sample Comment: up to 15.6 ppm
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Soil

Substance ID.: 121196
Haz Release ID: 388506
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 207-08-9
Substance Name: BENZO(k)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317400
Sub Alias Name: B(k)F
Substance Alias ID: 317401
Sub Alias Name: BENZOFLUORANTHENE,11,12-
Comment ID: 305988
Release Code: Data Sources
Release Comments: Phase 1 & 2 ESA (2000)
Decode for Relcomcd: Data Sources
Comment ID: 305989
Release Code: General Comments
Release Comments: Highest concentrations detected in borings GP-B (soil) and GP-E (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351122
Feature Id: 0
Hazard Release Id: 388506
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 18.90
Sample Comment: up to 18.9 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351131
Feature Id: 0
Hazard Release Id: 388506
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 15-16 ft bgs
Start Date: 12/09/1999
End Date: 12/09/1999
Min Concentration: Not reported
Max Concentration: 14.40
Sample Comment: up to 14.4 ppm
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Soil

Substance ID.: 121210
Haz Release ID: 388507
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440
Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Comment ID: 305991
Release Code: General Comments
Release Comments: Highest concentrations detected in boring GP-31 (soil) and GP-E (groundwater)

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Decode for Relcomcd: General Comments
Sampling Result ID: 351123
Feature Id: 0
Hazard Release Id: 388507
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 26.90
Sample Comment: up to 26.9 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351222
Feature Id: 0
Hazard Release Id: 388507
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.3-3.0 ft bgs
Start Date: 11/09/2012
End Date: 11/09/2012
Min Concentration: Not reported
Max Concentration: 53.50
Sample Comment: up to 53.5 ppm
Last Update By: KDANA
Update Date: 06/01/2021
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388508
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 305993
Release Code: General Comments
Release Comments: Highest concentrations detected in boring GP-31 (soil) and GP-E (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351124
Feature Id: 0
Hazard Release Id: 388508
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 12/10/1999
End Date: 12/10/1999
Min Concentration: Not reported
Max Concentration: 4.97
Sample Comment: up to 4.97 ppb
Last Update By: KDANA
Update Date: 02/05/2020
Decode for MediumID: Groundwater
Sampling Result ID: 351223
Feature Id: 0
Hazard Release Id: 388508
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.3-3.0 ft bgs
Start Date: 11/09/2012
End Date: 11/09/2012
Min Concentration: Not reported
Max Concentration: 6.70
Sample Comment: up to 6.70 ppm
Last Update By: KDANA
Update Date: 06/01/2021
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388509
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: 193-39-5

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Substance Name:	INDENO(1,2,3-cd)PYRENE
Substance Abbrev.:	Not reported
Substance Category ID:	8493
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8493
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	317339
Sub Alias Name:	PHENYLENEPYRENE,2,3-
Substance Alias ID:	317340
Sub Alias Name:	PHENYLENEPYRENE,o-
Comment ID:	305995
Release Code:	General Comments
Release Comments:	Highest concentrations detected in borings GP-31 (soil) and GP-E (groundwater)
Decode for Relcomcd:	General Comments
Sampling Result ID:	351125
Feature Id:	0
Hazard Release Id:	388509
Medium:	698
Substance Abbrev.:	0
Unit Code:	8
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	10-15 ft bgs
Start Date:	12/10/1999
End Date:	12/10/1999
Min Concentration:	Not reported
Max Concentration:	17.40
Sample Comment:	up to 17.4 ppb
Last Update By:	KDANA
Update Date:	02/05/2020
Decode for MediumID:	Groundwater
Sampling Result ID:	351132
Feature Id:	0
Hazard Release Id:	388509
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	0.3-3.0 ft bgs
Start Date:	11/09/2012
End Date:	11/09/2012
Min Concentration:	Not reported
Max Concentration:	37.90
Sample Comment:	up to 37.9 ppm
Last Update By:	KDANA
Update Date:	06/01/2021
Decode for MediumID:	Soil

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Substance ID.: 121982
Haz Release ID: 388510
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305997
Release Code: General Comments
Release Comments: Highest concentration detected in sample GS08
Decode for Relcomcd: General Comments
Comment ID: 305996
Release Code: Data Sources
Release Comments: Data Gap Investigation (2009)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351126
Feature Id: 0
Hazard Release Id: 388510
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7 ft bgs
Start Date: 07/28/2009
End Date: 07/28/2009
Min Concentration: Not reported
Max Concentration: 9500.00
Sample Comment: up to 9,500 ppm
Last Update By: KDANA
Update Date: 04/11/2020
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388511
Qty Released: unknown
Date Released: unknown
Update Date: 02/05/2020
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305998
Release Code: Data Sources
Release Comments: Data Gap Investigation (2009)
Decode for Relcomcd: Data Sources
Comment ID: 305999
Release Code: General Comments
Release Comments: Highest concentration detected in sample GS08
Decode for Relcomcd: General Comments
Sampling Result ID: 351127
Feature Id: 0
Hazard Release Id: 388511
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7 ft bgs
Start Date: 07/28/2009
End Date: 07/28/2009
Min Concentration: Not reported
Max Concentration: 5600.00
Sample Comment: up to 5,600 ppm
Last Update By: KDANA
Update Date: 04/11/2020
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388526
Qty Released: unknown
Date Released: unknown
Update Date: 04/10/2020
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 306008

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Release Code: General Comments
Release Comments: Highest concentrations detected in GP-33 (soil) and GP-9 (groundwater)
Decode for Relcomcd: General Comments
Sampling Result ID: 351137
Feature Id: 0
Hazard Release Id: 388526
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5-3.0 ft bgs
Start Date: 11/09/2012
End Date: 11/09/2012
Min Concentration: Not reported
Max Concentration: 1180.00
Sample Comment: up to 1,180 ppm
Last Update By: KDANA
Update Date: 06/01/2021
Decode for MediumID: Soil
Sampling Result ID: 351138
Feature Id: 0
Hazard Release Id: 388526
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 20-30 ft bgs
Start Date: 01/27/2009
End Date: 01/27/2009
Min Concentration: Not reported
Max Concentration: 113.00
Sample Comment: up to 113 ppb
Last Update By: KDANA
Update Date: 04/10/2020
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5751176
NARR Code: Contamination
Created By: GWISTAR
Created Date: 02/09/2009
Updated By: KDANA
Updated Date: 04/13/2020
Decode for NarcdID: Contamination
NARR Comments: (04/13/2020 KPD/VCP) Sixteen borings were advanced at the site in December 1999 as part of an initial investigation. Diesel, oil, and PAHs were identified in soils and shallow groundwater. Twelve additional borings were advanced around the site in January 2009 to address data gaps, and 13 test pits were dug in July 2009 to investigate subsurface features identified in geophysical surveys. Four groundwater monitoring wells were installed along the Willamette riverbank in June 2010 and monitored quarterly for a year. The highest contaminant concentrations were in MW-2, adjacent to the active Tanner Creek Sewer and a former 1,500-gallon fuel tank. The

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

sewer backfill and MW-2 were excluded from a Portland Harbor Source Control Decision that was completed for the site in March 2014.

NARR ID: 5754583
NARR Code: Data Sources
Created By: DHAFLEY
Created Date: 04/10/2013
Updated By: KDANA
Updated Date: 04/29/2020
Decode for NarcdID: Data Sources
NARR Comments: 1) NW Field Services <quot>Documentation of Tank Decommissioning and Site Sampling<quot> [July 1, 1991]. 2) Hart Crowser <quot>Phase I and 2 Environmental Site Assessment<quot> [February 2, 2000]. 3) Hart Crowser <quot>Underground Storage Tank Decommissioning and Risk-Based Cleanup<quot> [September 7, 2001]. 4) Hart Crowser <quot>Soil Closure Report<quot> [May 3, 2002]. 5) Hart Crowser <quot>Data Gaps Review and Recommendations<quot> [October 22, 2008]. 6) Varchan <quot>Heating Oil Tank Decommissioning Report<quot> [September 25, 2009]. 7) Hart Crowser <quot>Data Gap Investigation Report<quot> [December 29, 2009]. 8) Hart Crowser <quot>North UST Decommissioning<quot> [January 19, 2010]. 9) Hart Crowser <quot>Upland Source Control Work Plan<quot> [March 29, 2010]. 10) Hart Crowser <quot>Work Plan for Investigating Backfill Around Municipal Sewers<quot> [May 1, 2011]. 11) Hart Crowser <quot>Upland Source Control Evaluation<quot> [March 21, 2013]. 12) Hart Crowser <quot>Final Human Health Risk Assessment<quot> [November 14, 2013]. 13) DEQ <quot>Source Control Decision<quot> [March 7, 2014]. 14) Hart Crowser <quot>Feasibility Study<quot> [April 16, 2014]. 15) DEQ <quot>Staff Report for Proposed Remedial Action<quot> [October 2014]. 16) DEQ <quot>Record of Decision<quot> [December 4, 2014]. 17) Hart Crowser <quot>Tanner Creek Sewer Remedial Action Plan<quot> [April 21, 2016]. 18) Hart Crowser <quot>Transformer Room Assessment<quot> [April 22, 2016]. 19) Hart Crowser <quot>Upgradient Data Gap Investigation<quot> [May 26, 2017]. 20) Hart Crowser <quot>Phase 1 Tanner Creek Sewer Remedial Action Plan<quot> [January 29, 2020]. 21) HOT file #26-90-0337. 22) HOT file #26-01-5648. 23) HOT file #26-09-0689. 24) UST Facility ID #2855.

NARR ID: 5757479
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 05/13/2019
Updated By: KDANA
Updated Date: 05/13/2019
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Diesel and oil; polycyclic aromatic hydrocarbons (PAHs); and lead.

NARR ID: 5757478
NARR Code: Site Location
Created By: KDANA
Created Date: 05/13/2019
Updated By: KDANA
Updated Date: 06/13/2019
Decode for NarcdID: Site Location
NARR Comments: The site is located between the Willamette River and Naito Parkway, north of the intersection with NW 9th Avenue. The site address was originally 1362 NW Front Avenue.

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

NARR ID: 5757527
NARR Code: Media Contamination
Created By: KDANA
Created Date: 06/13/2019
Updated By: KDANA
Updated Date: 06/13/2019
Decode for NarcdID: Media Contamination
NARR Comments: Soils, sediments, and groundwater

NARR ID: 5757480
NARR Code: Site Ownership
Created By: KDANA
Created Date: 05/13/2019
Updated By: KDANA
Updated Date: 04/09/2020
Decode for NarcdID: Site Ownership
NARR Comments: Balfour, Guthrie & Company constructed Crown Mills (later Centennial Mills) in 1910-11. Univar purchased the site in 1973, followed by Archer Daniels Midland (ADM) Milling Company in 1981. The Portland Development Commission (now Prosper Portland) purchased the site from ADM for redevelopment in 2000.

NARR ID: 5757860
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 04/09/2020
Updated By: KDANA
Updated Date: 04/16/2020
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site consist of up to 20 feet of fill material atop native alluvium. The fill beneath the mill is generally silt with some sand, while up to 14 feet of silty gravels are present beneath the parking lot. The native alluvium is mostly sand with some silt, and extends to the Troutdale Formation (dense gravels) at about 110 ft bgs. The depth to shallow groundwater ranges from about 10-25 ft bgs based on river levels. The Willamette River borders the site to the northeast.

NARR ID: 5751177
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 02/09/2009
Updated By: KDANA
Updated Date: 04/13/2020
Decode for NarcdID: Remedial Action
NARR Comments: (04/13/2020 KPD/VCP) In 2001, about 4,300 tons of petroleum-contaminated soils (PCS) were excavated and removed from the site during construction of the horse paddock and the removal of a 12,000-gallon bunker fuel tank. Up to 200 additional tons of PCS and overburden were removed in July 2009 when test pits were excavated at the site. In a December 2014 Record of Decision (ROD), DEQ selected as a final remedy for the site the removal of about 10,000 cubic yards of soils (including 240 cubic yards of <quot>hot spot<quot> soils), capping the site with hardscape and/or two feet of clean soils, and the recording of a deed restriction requiring long-term maintenance of the cap.

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

NARR ID: 5757492
NARR Code: Site History
Created By: KDANA
Created Date: 05/16/2019
Updated By: KDANA
Updated Date: 04/09/2020
Decode for NarcdID: Site History
NARR Comments: Balfour, Guthrie & Company constructed Crown Mills on the Centennial Dock site in 1910-11. Crown Mills was constructed on piles over the Willamette River that were gradually filled in. The complex originally consisted of a flour mill, grain elevator, and two warehouses. Additional buildings were added in the 1920s. The southeastern third of the current site, where a ferry landing had been located, was acquired by the renamed Centennial Mills in 1936. By 1950, the ferry landing had been filled in for use as a parking lot. The Portland Development Commission (PDC), now known as Prosper Portland, acquired the site in 2000. In 2001, the parking lot was remodeled for use as a horse paddock for the City of Portland's Mounted Patrol Unit. The PDC entered the site into DEQ's Voluntary Cleanup Program in January 2009. Five underground storage tanks (USTs) were present at the site. A 1,000-gallon gasoline UST, a 1,000-gallon diesel UST, and a 300-gallon diesel UST, all used for fueling fleet vehicles, were installed between 1943 and 1953 and were decommissioned by removal in 1989. A 12,000-gallon heating oil tank (HOT), used to fuel the mill boiler, was also installed around 1950 and was decommissioned in-place in 1990. (The PDC subsequently removed the tank in 2001). Finally, a 1,500-gallon HOT, likely installed in 1910 and used prior to the installation of the 12,000-gallon HOT, was decommissioned by removal in 2009.

NARR ID: 5754582
NARR Code: 1922
Created By: DHAFLEY
Created Date: 04/10/2013
Updated By: KDANA
Updated Date: 04/16/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Centennial Mills was a flour mill that operated on the west bank of the Willamette River from 1910 to 2000. The Portland Development Commission (PDC), now known as Prosper Portland, purchased the site for redevelopment in 2000. The parking lot for the mill, constructed in the 1940s, was converted into a horse paddock for the Portland Mounted Patrol in 2001. The Mounted Patrol vacated the site in 2009. Investigations at the site have identified diesel, oil, and PAHs in the soil and shallow groundwater. A Source Control Decision, evaluating contaminant discharges into the Willamette River, was completed in 2014, followed by a Record of Decision which selected a final cleanup remedy for the site. An estimated 10,000 cubic yards of soils will be removed from the site during redevelopment, and residual contamination will be capped in-place. As of April 2020, Prosper Portland is developing a two-part plan for addressing contamination in the backfill around the Tanner Creek Sewer, which discharges to the Willamette at Centennial Mills. Redevelopment of the site is on hold pending completion of this work.

Administrative Action:
Action ID: 9424
Region: Not reported

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Complete Date: 02/09/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/09/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 12/31/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/09/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 11/18/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/10/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: Low
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 09/26/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/18/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9523
Region: Northwestern Region
Complete Date: 03/07/2014

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/18/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCD
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 12/04/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/10/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9473
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/06/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL DESIGN
Further Action: 0
Comments: Not reported

Action ID: 9464
Region: 0
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/06/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

Action ID: 9524
Region: Northwestern Region
Complete Date: 03/07/2014
Rank Value: Not reported

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Cleanup Flag: False
Created Date: 06/13/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCE
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135970
Operation Status: Inactive
Common Name: Centennial Mills
Yrs of Operation: 1910-2000
Comments: Flour milling
Updated Date: 05/13/2019
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199396
SIC Code: 2041
Created By: KDANA
Created Date: 05/13/2019

LUST:
Name: HEATING OIL TANK
Address: 1362 NW NAITO PARKWAY
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-01-5648
Cleanup Received Date: 04/10/2001
Cleanup Start Date: 04/06/2001
Cleanup Complete Date: 11/20/2001
Decode for Region: North West Region

Name: HEATING OIL TANK
Address: 1362 NW NAITO PKWY
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-09-0689
Cleanup Received Date: 07/29/2009
Cleanup Start Date: Not reported
Cleanup Complete Date: 02/08/2010
Decode for Region: North West Region

UST:
Name: CENTENNIAL MILLS DIV - ADM MILLING CO
Address: 1362 NW NAITO PKWY
City: PORTLAND
Facility ID: 2855
Facility Telephone: (503)233-8060
Permittee Name: DAN MCALLASTER, PLANT SUPERINTENDENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 4
Number of Tanks: 4

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

VCS:

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5136
Facility Size:	4.75 acres
Action:	RECORD OF DECISION
Start Date:	10/01/2014
End Date:	12/04/2014
Program:	VCP
Latitude:	45.5336
Longitude:	-122.6801

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5136
Facility Size:	4.75 acres
Action:	Source Control Evaluation
Start Date:	03/07/2013
End Date:	03/07/2014
Program:	VCP
Latitude:	45.5336
Longitude:	-122.6801

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5136
Facility Size:	4.75 acres
Action:	REMEDIAL DESIGN
Start Date:	06/06/2018
End Date:	Not reported
Program:	VCP
Latitude:	45.5336
Longitude:	-122.6801

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5136
Facility Size:	4.75 acres
Action:	FEASIBILITY STUDY
Start Date:	11/18/2013
End Date:	09/26/2014
Program:	VCP
Latitude:	45.5336
Longitude:	-122.6801

Name:	CENTENNIAL MILLS
Address:	1362 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5136
Facility Size:	4.75 acres
Action:	Source Control Decision
Start Date:	03/07/2014
End Date:	03/07/2014

CENTENNIAL MILLS DIV - ADM MILLING CO (Continued) **1000642461**

Program: VCP
Latitude: 45.5336
Longitude: -122.6801

Name: CENTENNIAL MILLS
Address: 1362 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5136
Facility Size: 4.75 acres
Action: RISK ASSESSMENT
Start Date: 01/11/2012
End Date: 11/18/2013
Program: VCP
Latitude: 45.5336
Longitude: -122.6801

Name: CENTENNIAL MILLS
Address: 1362 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5136
Facility Size: 4.75 acres
Action: SITE INVESTIGATION
Start Date: 02/09/2009
End Date: 12/31/2012
Program: ICP
Latitude: 45.5336
Longitude: -122.6801

H22 **HEATING OIL TANK** **OR LUST** **S125317613**
ESE **1362 NW FRONT AVE** **N/A**
< 1/8 **PORTLAND, OR 97209**
0.108 mi.
572 ft. **Site 2 of 2 in cluster H**

Relative: LUST:
Lower
Actual: Name: HEATING OIL TANK
33 ft. Address: 1362 NW FRONT AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-90-0337
Cleanup Received Date: 09/18/1990
Cleanup Start Date: 09/18/1990
Cleanup Complete Date: 07/08/1991
Decode for Region: North West Region

F23 **HAMILTON TEST SYSTEMS** **EDR Hist Auto** **1009487032**
WSW **1421 NW 14TH AVE** **N/A**
< 1/8 **PORTLAND, OR**
0.109 mi.
577 ft. **Site 3 of 5 in cluster F**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
40 ft. 1981 HAMILTON TEST SYSTEMS GASOLINE STATIONS

F24
WSW
< 1/8
0.109 mi.
577 ft.

DIRECT MAIL/MAIL MARK
1421 NW 14TH
PORTLAND, OR 97209

Site 4 of 5 in cluster F

OR LUST **U000432379**
OR UST **N/A**

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	DIRECT MAIL/MAIL MARK
Address:	1421 NW 14TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-90-0407
Cleanup Received Date:	10/23/1990
Cleanup Start Date:	12/22/1988
Cleanup Complete Date:	**04/04/2002**
Decode for Region:	**North West Region**

UST:

Name:	DIRECT MAIL/MAIL MARK
Address:	1421 NW 14TH
City:	PORTLAND
Facility ID:	5581
Facility Telephone:	(503) 241-5601
Permittee Name:	JAMES M RIOPELLE, PROPERTY MANAGER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	3
Number of Tanks:	3

F25
SW
< 1/8
0.124 mi.
655 ft.

PENSKE TRUCK LEASING CO LP
1325 NW 14TH AVE
PORTLAND, OR 97209

Site 5 of 5 in cluster F

OR LUST **1000383096**
OR UST **N/A**

Relative:
Higher

Actual:
41 ft.

LUST:

Name:	OVERTON WINPEARL LLC
Address:	1325 NW 14TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-07-1680
Cleanup Received Date:	12/01/2007
Cleanup Start Date:	09/10/2007
Cleanup Complete Date:	**05/29/2008**
Decode for Region:	**North West Region**

UST:

Name:	PENSKE TRUCK LEASING CO LP
Address:	1325 NW 14TH AVE
City:	PORTLAND
Facility ID:	4719
Facility Telephone:	(503) 226-7971
Permittee Name:	ROBB HATLEY, DISTRICT MANAGER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	5
Number of Tanks:	5

G26
South
1/8-1/4
0.129 mi.
681 ft.

VXCHNGE-FACILITIES, LLC
1233 NW 12TH AVE
PORTLAND, OR 97209

Site 2 of 3 in cluster G

OR AST **S111255904**
N/A

Relative:
Higher

Actual:
40 ft.

AST:

Name:	VXCHNGE INC
Address:	1233 NW 12TH AVE
City,State,Zip:	PORTLAND, OR 97209
Facility Id:	84582
Hazardous Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
County:	MULTNOMAH
Owner-Operator Name:	KEITH
Direct Site Phone:	5032055570
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	INTERNET DATA CENTER
NAICS:	518210
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	Yes
Is Aspiration hazard:	No
Is Carcinogenicity:	Yes
Is Germ cell mutagenicity:	No
Is Health HNOC:	No
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No

VXCHNGE-FACILITIES, LLC (Continued) **S111255904**

Is Serious eye damage or eye irritation: Yes
Is Simple asphyxiant: No
Is Skin corrosion or irritation: Yes
Is Specific target organ toxicity: Yes

27
West
1/8-1/4
0.132 mi.
697 ft.

HEATING OIL TANK **OR LUST** **S105556276**
1433 NW QUIMBY ST **N/A**
PORTLAND, OR 97209

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1433 NW QUIMBY ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-02-0302
Cleanup Received Date:	07/05/2002
Cleanup Start Date:	07/05/2002
Cleanup Complete Date:	**09/10/2002**
Decode for Region:	**North West Region**

G28
South
1/8-1/4
0.133 mi.
704 ft.

HEATING OIL TANK **OR LUST** **S100497235**
1223 NW 12TH **N/A**
PORTLAND, OR 97209

Site 3 of 3 in cluster G

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1223 NW 12TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-90-0289
Cleanup Received Date:	08/14/1990
Cleanup Start Date:	08/06/1990
Cleanup Complete Date:	**08/20/1990**
Decode for Region:	**North West Region**

29
South
1/8-1/4
0.149 mi.
789 ft.

HOYT STREET RAILYARD - BLOCK 15 **OR ECSI** **S116734840**
1075 NW NORTHRUP ST. **OR ENG CONTROLS** **N/A**
PORTLAND, OR 97209 **OR INST CONTROL**
OR VCP

Relative:
Higher

Actual:
39 ft.

ECSI:

Name:	HOYT STREET RAILYARD - BLOCK 15
Address:	1075 NW NORTHRUP ST.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5894
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

FACA ID:	131121
Further Action:	0
Lat/Long (dms):	45 31 54.50 / -122 40 54.50
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	BB
Tax Lots:	2620, 2621, 2622 and 2623
Size:	0.92 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	06/23/2017
Created Date:	04/24/2014
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121462
Haz Release ID:	388239
Qty Released:	unknown
Date Released:	unknown
Update Date:	05/28/2015
Update By:	KDANA
Substance Code:	56-55-3
Substance Name:	BENZO(a)ANTHRACENE
Substance Abbrev.:	Not reported
Substance Category ID:	8475
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8475
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	318790
Sub Alias Name:	BENZ(a)ANTHRACENE
Substance Alias ID:	318791
Sub Alias Name:	BENZANTHRACENE,1,2-
Substance Alias ID:	318792
Sub Alias Name:	BENZANTHRENE
Substance Alias ID:	318793
Sub Alias Name:	BENZOANTHRACENE
Substance Alias ID:	318794
Sub Alias Name:	BENZPHENANTHRENE,2,3-
Substance Alias ID:	318795
Sub Alias Name:	NAPHTHANTHRACENE

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305665
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305666
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350744
Feature Id: 0
Hazard Release Id: 388239
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 75.40
Sample Comment: up to 75.4 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388240
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305667

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305668
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350745
Feature Id: 0
Hazard Release Id: 388240
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 67.40
Sample Comment: up to 67.4 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121210
Haz Release ID: 388241
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440
Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Comment ID: 305669
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305670
Release Code: Media Contamination Footnote

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350746
Feature Id: 0
Hazard Release Id: 388241
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 74.60
Sample Comment: up to 74.6 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388242
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 305671
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305672
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350747

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Feature Id: 0
Hazard Release Id: 388242
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 10.30
Sample Comment: up to 10.3 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 388243
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305673
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305674
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in EM-15E
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350748
Feature Id: 0
Hazard Release Id: 388243
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 09/30/1998
End Date: 09/30/1998

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Min Concentration: Not reported
Max Concentration: 4300.00
Sample Comment: up to 4,300 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388244
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305675
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305676
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-3
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350749
Feature Id: 0
Hazard Release Id: 388244
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 8-9 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 5830.00
Sample Comment: up to 5,830 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388245
Qty Released: unknown
Date Released: unknown

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Update Date: 05/28/2015
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 305677
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305678
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350750
Feature Id: 0
Hazard Release Id: 388245
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 27.70
Sample Comment: up to 27.7 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388246
Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305679
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305680
Release Code: Media Contamination Footnote
Release Comments: Highest concentrations detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350751
Feature Id: 0
Hazard Release Id: 388246
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 2110.00
Sample Comment: up to 2,110 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil
Sampling Result ID: 350752
Feature Id: 0
Hazard Release Id: 388246
Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 1.92
Sample Comment: up to 1.92 mg/L
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Leachate

Substance ID.: 121868
Haz Release ID: 388247

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Qty Released: unknown
Date Released: unknown
Update Date: 05/28/2015
Update By: KDANA
Substance Code: 91-20-3
Substance Name: NAPHTHALENE
Substance Abbrev.: Not reported
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317793
Sub Alias Name: MOTH BALLS
Substance Alias ID: 317794
Sub Alias Name: NAPHTHENE
Substance Alias ID: 317795
Sub Alias Name: TAR CAMPHOR
Comment ID: 305681
Release Code: Data Sources
Release Comments: September 2012 GeoDesign Subsurface Investigation Report
Decode for Relcomcd: Data Sources
Comment ID: 305682
Release Code: Media Contamination Footnote
Release Comments: Highest concentration detected in DP-6
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350753
Feature Id: 0
Hazard Release Id: 388247
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 13-14 ft bgs
Start Date: 07/27/2012
End Date: 07/27/2012
Min Concentration: Not reported
Max Concentration: 26.60
Sample Comment: up to 26.6 ppm
Last Update By: KDANA
Update Date: 05/28/2015
Decode for MediumID: Soil

Narrative:
NARR ID: 5755680
NARR Code: Contamination
Created By: KDANA
Created Date: 05/28/2015
Updated By: KDANA
Updated Date: 12/21/2015
Decode for NarcdID: Contamination

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

NARR Comments: (12/17/2015 KPD/ICP) The site was initially investigated as part of the Hoyt Street Railyard project (ECSI #1080). Soil samples were collected from test pits at the site in September 1998 and were analyzed for diesel, oil and lead, finding up to 4,300 ppm diesel and 830 ppm lead. Additional soil samples were collected from 16 borings advanced through the streets surrounding the block in May 2003. Diesel (up to 3,840 ppm), heavy oils (up to 4,280 ppm), and lead (up to 1,280 ppm) were detected, along with numerous PAHs. A site-specific investigation was conducted in July 2012, with soil samples collected from 10 borings on the block. Heavy oils, lead and PAHs were detected in all of the analyzed samples, with by far the highest concentrations of lead and PAHs in boring DP-6, in the northeast corner of the block at 13-14 ft bgs.

NARR ID: 5755618
NARR Code: Data Sources
Created By: KDANA
Created Date: 03/25/2015
Updated By: KDANA
Updated Date: 12/08/2015
Decode for NarcdID: Data Sources
NARR Comments: 1) DEQ <quot>Record of Decision<quot> for Hoyt Street Railyard [December 15, 2000]. 2) DEQ <quot>Stipulation and Consent Decree<quot> for Hoyt Street Railyard [January 31, 2002]. 3) Anchor <quot>Environmental Construction Report<quot> [June 2004]. 4) GeoDesign <quot>Limited Environmental Subsurface Investigation Report<quot> [September 20, 2012]. 5) GeoDesign <quot>Phase 1 Environmental Site Assessment<quot> [March 19, 2014]. 6) GeoDesign <quot>Soil Management Plan<quot> [August 7, 2014]. 7) GeoDesign <quot>Soil Management Completion Summary and Request for NFA<quot> [March 30, 2015].

NARR ID: 5755101
NARR Code: Hazardous Substance/Waste Types
Created By: CHARMAN
Created Date: 04/24/2014
Updated By: KDANA
Updated Date: 07/16/2015
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum hydrocarbons, heavy metals, polycyclic aromatic hydrocarbons, and asbestos.

NARR ID: 5755617
NARR Code: Site Location
Created By: KDANA
Created Date: 03/25/2015
Updated By: KDANA
Updated Date: 03/25/2015
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Overton Street to the north, NW Northrup Street to the south, NW 10th Avenue to the east, and NW 11th Avenue to the west.

NARR ID: 5755913
NARR Code: Manner of Release
Created By: KDANA
Created Date: 12/08/2015

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Updated By: KDANA
Updated Date: 12/08/2015
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of releases unknown

NARR ID: 5755619
NARR Code: Site Ownership
Created By: KDANA
Created Date: 03/25/2015
Updated By: KDANA
Updated Date: 12/08/2015
Decode for NarcdID: Site Ownership
NARR Comments: The site was owned by Burlington Northern Santa Fe (BNSF) Railway Company and its predecessors from the early 1900s until 1988. The site was acquired by Hoyt Street Properties, LLC in 1994.

NARR ID: 5755914
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 12/08/2015
Updated By: KDANA
Updated Date: 12/08/2015
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Prior to the start of construction in 2014 soils at the site consisted of 10-20 feet of fill material (a mixture of sands, silts, clays and industrial debris). Beneath the fill was 5-10 feet of sandy clay and/or silty clay (wetland soils) underlain by layers of sand and gravel to at least 90 ft bgs. Groundwater was encountered at depths from 12-15 ft bgs. The groundwater flow direction was north-northeast toward the Willamette River, approximately 850 feet from the site.

NARR ID: 5755744
NARR Code: Remedial Action
Created By: KDANA
Created Date: 07/16/2015
Updated By: KDANA
Updated Date: 12/21/2015
Decode for NarcdID: Remedial Action
NARR Comments: (12/17/2015 KPD/ICP) Remedial actions were initially conducted at the site in 2003 as part of the Hoyt Street Railyard project (ECSI #1080). Imported fill soils were brought in to raise the grade of the block and provide five feet of clean fill in the adjacent street rights-of-way. Geotextile markers were placed on the ground surfaces prior to fill placement. In August 2003, asbestos-containing materials were removed from steam tunnels that ran beneath the site. A License and Declaration of Restrictions, requiring that the block be capped with buildings, pavement, and/or 2-3 feet of clean soil, was recorded on the property deed in December 2013. Construction of the current condominium tower (<quot>Cosmopolitan on the Park<quot>) began in July 2014. Soils were excavated from the site from July to November 2014 and temporarily stockpiled on Block 24 of the former Railyard (three blocks NNW of the site). The stockpiled soils were shipped to landfills from October 2014 through March 2015. A total of 13,379 tons of soil were shipped to the Riverbend Landfill in McMinnville and 2,544 tons of soil were shipped to the Hillsboro Landfill.

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

NARR ID: 5755100
NARR Code: Site History
Created By: CHARMAN
Created Date: 04/24/2014
Updated By: KDANA
Updated Date: 12/08/2015
Decode for NarcdID: Site History
NARR Comments: The area around the site was originally a lake bed and marshlands connected to the Willamette River. The area was filled in with 10-20 feet of material in the late 1800s. The Hoyt Street Railyard was established by 1911 and operated through 1998. The Block 15 site was utilized as a paved parking lot (with a small community garden at the north end) from 2010 until 2014, when construction of the current condominium tower began.

Site Control:

Site Control #: 764
Control Number: 3
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: GWISTAR
Last Updated Date: 05/21/2015
Site Comment: <quot>License and Declaration of Restrictions,<quot> recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Site Control #: 946
Control Number: 4
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: GWISTAR
Last Updated Date: 05/21/2015
Site Comment: No use of groundwater at the property for consumption or other beneficial use.

Site Control #: 947
Control Number: 5
Begin Date: 12/13/2014
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: GWISTAR
Last Updated Date: 05/21/2015
Site Comment: Detached single-family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

Site Control #: 948
Control Number: 20
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: 12/13/2013
Last Update By: GWISTAR
Last Updated Date: 05/21/2015
Site Comment: Without DEQ s prior written approval, no operations or uses shall be made on or of the property that may penetrate the protective surface cover or jeopardize its functional integrity, including any excavation, drilling, scraping, or erosion, or other actions affecting a permanent feature of the site remedy. In addition, the site owner must maintain the surface cover and any other permanent feature of the site remedy, as described in the site-specific Monitoring and Maintenance Plan.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 04/24/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/24/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9433
Region: Northwestern Region
Complete Date: 12/17/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/24/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: 0
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/08/2015
Decode for AgencyID: Other
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Complete Date: 12/17/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/21/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135933
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and refueling yard
Updated Date: 12/08/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199368
SIC Code: 4011
Created By: KDANA
Created Date: 03/25/2015

Enginering Control:
Name: HOYT STREET RAILYARD - BLOCK 15
Address: 1075 NW NORTHRUP ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 948
Site Id: 5894
Control Sequence #: 20
Begin Date: 12/13/2013
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: GWISTAR
Last Updated Date: 05/21/2015
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E
Type Description: Engineering
Comments: Without DEQ s prior written approval, no operations or uses shall be made on or of the property that may penetrate the protective surface cover or jeopardize its functional integrity, including any excavation, drilling, scraping, or erosion, or other actions affecting a permanent feature of the site remedy. In addition, the site owner must maintain the surface cover and any other permanent feature of the site remedy, as described in the site-specific Monitoring and Maintenance Plan.

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

Institutional Control:

Name:	HOYT STREET RAILYARD - BLOCK 15
Address:	1075 NW NORTHRUP ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	946
Site Id:	5894
Control Sequence #:	4
Begin Date:	12/13/2013
End Date:	Not reported
Frequency Of Review:	60
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	12/13/2013
Last Updated By:	GWISTAR
Last Updated Date:	05/21/2015
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	No use of groundwater at the property for consumption or other beneficial use.

Name:	HOYT STREET RAILYARD - BLOCK 15
Address:	1075 NW NORTHRUP ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	764
Site Id:	5894
Control Sequence #:	3
Begin Date:	12/13/2013
End Date:	Not reported
Frequency Of Review:	60
Last Reviewed By:	K. Dana, DEQ
Last Review Date:	12/13/2013
Last Updated By:	GWISTAR
Last Updated Date:	05/21/2015
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	<quot>License and Declaration of Restrictions,<quot> recorded by Multnomah County; it prohibits beneficial groundwater use and residential redevelopment, and requires maintenance of a cap.

Name:	HOYT STREET RAILYARD - BLOCK 15
Address:	1075 NW NORTHRUP ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	947
Site Id:	5894
Control Sequence #:	5
Begin Date:	12/13/2014

HOYT STREET RAILYARD - BLOCK 15 (Continued) **S116734840**

End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: K. Dana, DEQ
Last Review Date: 12/13/2013
Last Updated By: GWISTAR
Last Updated Date: 05/21/2015
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Detached single-family residential use of the property is prohibited, as is any agricultural use resulting in plant harvest.

VCS:
Name: HOYT STREET RAILYARD - BLOCK 15
Address: 1075 NW NORTHRUP ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5894
Facility Size: 0.92 acres
Action: INDEPENDENT CLEANUP
Start Date: 04/24/2014
End Date: 12/17/2015
Program: ICP
Latitude: 45.5318
Longitude: -122.6818

Name: HOYT STREET RAILYARD - BLOCK 15
Address: 1075 NW NORTHRUP ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5894
Facility Size: 0.92 acres
Action: No Further Action (Conditional)
Start Date: 12/17/2015
End Date: 12/17/2015
Program: ICP
Latitude: 45.5318
Longitude: -122.6818

30
SE
1/8-1/4
0.155 mi.
816 ft.

STATION PLACE - LOT 5 **OR ECSI** **S127334245**
1250 NW 9TH AVE. **OR VCP** **N/A**
PORTLAND, OR 97209

Relative:
Lower

Actual:
35 ft.

ECSI:
Name: STATION PLACE - LOT 5
Address: 1250 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 6455
Brown ID: 0
Study Area: False
Region ID: Not reported
Legislatve ID: 0

STATION PLACE - LOT 5 (Continued) **S127334245**

Investigation: Suspect
FACA ID: Not reported
Further Action: 0
Lat/Long (dms): 0 0 .00 / 0 0 .00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: 1305
Size: 0.80 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 03/15/2021
Created Date: 03/15/2021
Decode For RegionID: Not reported
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/15/2021
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9501
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Action recommended (RA)
Further Action: Low
Comments: Not reported

VCS:
Name: STATION PLACE - LOT 5

STATION PLACE - LOT 5 (Continued) **S127334245**

Address:	1250 NW 9TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	6455
Facility Size:	0.80 acres
Action:	Remedial Action recommended (RA)
Start Date:	03/15/2021
End Date:	Not reported
Program:	VCP
Latitude:	0
Longitude:	0

31
WNW
1/8-1/4
0.172 mi.
907 ft.

GENERAL DISTRIBUTOR INC
1509 NW SAVIER
PORTLAND, OR 97209

OR LUST **U000432387**
OR UST **N/A**

Relative:
Higher

Actual:
39 ft.

LUST:

Name:	GENERAL DISTRIBUTOR (FICK WAREHOUSE)
Address:	1509 NW SAVIER
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-89-0003
Cleanup Received Date:	01/11/1989
Cleanup Start Date:	01/26/1989
Cleanup Complete Date:	**01/30/1989**
Decode for Region:	**North West Region**

UST:

Name:	GENERAL DISTRIBUTOR INC
Address:	1509 NW SAVIER
City:	PORTLAND
Facility ID:	9398
Facility Telephone:	(503)288-5537
Permittee Name:	A WAYNE FICK, OWNER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	4
Number of Tanks:	4

I32
SSW
1/8-1/4
0.180 mi.
951 ft.

VERIZON BUSINESS -ORPRALOR
1335 NW NORTHRUP ST
PORTLAND, OR 97209

Site 1 of 2 in cluster I

OR ECSI **S111256746**
OR CRL **N/A**
OR AST
OR ENG CONTROLS
OR INST CONTROL
OR VCP

Relative:
Higher

Actual:
43 ft.

ECSI:

Name:	GENDER MACHINE WORKS, INC.
Address:	1335 NW NORTHRUP ST
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	2313
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Investigation:	Listed on the CRL/Inventory
FACA ID:	9945
Further Action:	0
Lat/Long (dms):	45 31 54.80 / -122 41 5.30
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	Not reported
Tax Lots:	1800 (Lot 1-8, Block 214)
Size:	0.92 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	08/15/2008
Created Date:	03/16/1999
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: Level 3 Communications

Hazardous Release:

Substance ID.:	121664
Haz Release ID:	378819
Qty Released:	Not reported
Date Released:	Not reported
Update Date:	10/13/2000
Update By:	Not reported
Substance Code:	7440-38-2
Substance Name:	ARSENIC
Substance Abbrev.:	Not reported
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319286
Sub Alias Name:	AS
Sampling Result ID:	339968
Feature Id:	Not reported
Hazard Release Id:	378819
Medium:	703
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	False

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Lab Data: True
Sample Depth: Not reported
Start Date: 08/01/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 53.9 ppm
Last Update By: jmw
Update Date: 10/13/2000
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 378820
Qty Released: Not reported
Date Released: Not reported
Update Date: 10/13/2000
Update By: Not reported
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Sampling Result ID: 339969
Feature Id: Not reported
Hazard Release Id: 378820
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/01/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 4.5 ppm
Last Update By: jmw
Update Date: 10/13/2000
Decode for MediumID: Soil

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Substance ID.: 121665
Haz Release ID: 381912
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/16/1999
Update By: Not reported
Substance Code: 7440-39-3
Substance Name: BARIUM
Substance Abbrev.: Not reported
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319287
Sub Alias Name: BA
Sampling Result ID: 340357
Feature Id: Not reported
Hazard Release Id: 381912
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 02/10/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.5 ppm
Last Update By: jmw
Update Date: 03/16/1999
Decode for MediumID: Soil
Sampling Result ID: 340358
Feature Id: Not reported
Hazard Release Id: 381912
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/04/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.9 ppm
Last Update By: jmw
Update Date: 03/16/1999
Decode for MediumID: Soil

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Substance ID.: 122012
Haz Release ID: 381913
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/16/1999
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 340356
Feature Id: Not reported
Hazard Release Id: 381913
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 02/10/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 91,100 ppm (removed)
Last Update By: jmw
Update Date: 10/13/2000
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 381914
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/16/1999
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 340359
Feature Id: Not reported
Hazard Release Id: 381914
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/01/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 3050 ppm
Last Update By: jmw
Update Date: 10/13/2000
Decode for MediumID: Soil

Narrative:

NARR ID: 5738130
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (10/12/00 JMA/VCP) A foundry and machine shop previously operated on the property since the early 1880s. Investigations in the late 1990s revealed TPH and metal contaminated soil beneath the building. As part of its pre-acquisition work, Level 3 completed a soil and groundwater investigation to at least preliminarily characterize the nature and extent of contamination. After Level 3 acquired the property and during site renovation, they removed readily accessible and suspected source-area soil contamination. Level 3 completed a groundwater investigation and determined groundwater is not contaminated. The site currently contains residual soil contamination (TPH and metals), but it is capped by the building floor.

NARR ID: 5738131
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1) Phase II Report, AE Associates, Inc., March 10, 1999; 2) Site History and Soil/Groundwater Sampling Results, Bridgewater, September 7, 1999; 3) Draft Site Investigation/Feasibility Study Report, Bridgewater, June 30, 2000; 4) February 8, 2001, Record of Decision.

NARR ID: 5738132
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Heavy oil, barium, lead, arsenic, polynuclear aromatic hydrocarbons (PAHs)

NARR ID: 5738133
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Unknown, but releases are expected from site operations over the years. Foundry sand was used to raise grade of northeast corner of property.

NARR ID: 5738134
NARR Code: Media Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Media Contamination
NARR Comments: soil

NARR ID: 5738135
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: JWAGGY
Updated Date: 01/30/2003
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: A list of possible exposure pathways for human receptors at the site includes, but is not necessarily limited to, direct contact with contaminated soil (dermal contact, ingestion, inhalation of particulates). The possibility of direct contact is expected to be minimal due to concrete building floor that currently covers site contamination. The human health risk assessement concluded that direct exposre to on-site soil contamination poses an unacceptable risk to occupational workers. DEQ selected remedy includes the use of engineering controls to cap the soil contamination and eliminate current, and prevent future direct contact with the contaminated soil. DEQ selected remedy also includes the use of institutional controls that will be used to; 1) notify site workers of the presence of the on-site contamination; 2)prescribe appropriate methods to characterize, manage, and dispose of contaminated excavation spoils; and 3)define health and safety requirements regarding currently existing contaminated soil for any future site redevelopment activities.

NARR ID: 5738136
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 09/16/2003
Decode for NarcdID: Remedial Action

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

NARR Comments: (11/21/01 JMA/ICP) Level III completed an RI/FS for the property in DEQ's Independent Cleanup Pathway. DEQ signed a ROD on February 8, 2001, selecting a remedial action that includes engineering and institutional controls to reduce or prevent current and future exposure to contaminated soils at the facility. (12/30/02 JMA/VCP) Level 3 filed the institutional controls (in the form of an Easement and Equitable Servitude) with Multnomah County in September 2001. DEQ approved Level 3 s Hazard Communication and Soil Management and issued a No Further Action (NFA) determination in February 2002.

Site Control:

Site Control #: 272
Control Number: 3
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Jim Anderson
Last Reviewed Date: 02/26/2002
Last Update By: JPALMER
Last Updated Date: 05/05/2005
Site Comment: Recorded with Multnomah County. There is a groundwater use restriction and a land use restriction in the EES. No groundwater may be used and site must remain industrial.

Site Control #: 856
Control Number: 4
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: J. Palmeri, DEQ
Last Reviewed Date: 05/05/2005
Last Update By: GWISTAR
Last Updated Date: 05/19/2015
Site Comment: No use of groundwater at the property.

Site Control #: 857
Control Number: 5
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: J. Palmeri, DEQ
Last Reviewed Date: 05/05/2005
Last Update By: GWISTAR
Last Updated Date: 05/19/2015
Site Comment: Property must remain in industrial use only.

Site Control #: 858
Control Number: 36
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: J. Anderson, DEQ
Last Reviewed Date: Not reported
Last Update By: GWISTAR
Last Updated Date: 05/19/2015
Site Comment: Soil cap.

Administrative Action:

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Action ID: 9465
Region: Northwestern Region
Complete Date: 03/29/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 03/29/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 07/25/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 07/25/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9459

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Region: Northwestern Region
Complete Date: 09/07/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 02/26/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 02/08/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 02/26/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Complete Date: 02/28/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 12/05/2001
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/03/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/03/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 02/26/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 02/26/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 03/16/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 03/16/1999
Rank Value: 0

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Operations:

Operation Id: 133519
Operation Status: Inactive
Common Name: Gender Machine Works,Inc.
Yrs of Operation: 1895 - 1997
Comments: Not reported
Updated Date: 01/31/2003
Updated By: JWAGGY
Decode for OpstatID: Inactive
Operations SIC Id: 196733
SIC Code: 3589
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133520
Operation Status: Active
Common Name: Level 3 Communications
Yrs of Operation: 2000 - Current
Comments: Internet switching company.
Updated Date: 10/13/2000
Updated By: jmw
Decode for OpstatID: Active
Operations SIC Id: 197225
SIC Code: 8990
Created By: Not reported
Created Date: 12/17/2002

CRL:

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Facility ID: 2313
Location ID: 9945
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.5319 / -122.6848

AST:

Name: VERIZON BUSINESS -ORPRALOR
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Facility Id: 99520
Hazardous Substance: DIESEL FUEL
Reporting Quantities: Not reported
Quantity Units: Not reported
Physical State: Not reported
Storage 1: Above ground tank

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

County:	MULTNOMAH
Owner-Operator Name:	Hans
Direct Site Phone:	9085594600
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Wireline Communications
NAICS:	517311
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	Yes
Is Aspiration hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ cell mutagenicity:	No
Is Health HNOC:	No
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No
Is Serious eye damage or eye irritation:	Yes
Is Simple asphyxiant:	No
Is Skin corrosion or irritation:	Yes
Is Specific target organ toxicity:	Yes

Enginering Control:

Name:	GENDER MACHINE WORKS, INC.
Address:	1335 NW NORTHRUP ST
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	858
Site Id:	2313
Control Sequence #:	36
Begin Date:	10/01/2001
End Date:	Not reported

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Frequency Of Review: 60
Last Reviewed By: J. Anderson, DEQ
Last Review Date: Not reported
Last Updated By: GWISTAR
Last Updated Date: 05/19/2015
Group Sequence #: 9
Control Code: CPE
Control Description: Cap, engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Soil cap.

Institutional Control:
Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 272
Site Id: 2313
Control Sequence #: 3
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Jim Anderson
Last Review Date: 02/26/2002
Last Updated By: JPALMER
Last Updated Date: 05/05/2005
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Recorded with Multnomah County. There is a groundwater use restriction and a land use restriction in the EES. No groundwater may be used and site must remain industrial.

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 856
Site Id: 2313
Control Sequence #: 4
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: J. Palmeri, DEQ
Last Review Date: 05/05/2005
Last Updated By: GWISTAR
Last Updated Date: 05/19/2015
Group Sequence #: 2
Control Code: USG
Control Description: Use Restriction Groundwater

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: No use of groundwater at the property.

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 857
Site Id: 2313
Control Sequence #: 5
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: J. Palmeri, DEQ
Last Review Date: 05/05/2005
Last Updated By: GWISTAR
Last Updated Date: 05/19/2015
Group Sequence #: 2
Control Code: USL
Control Description: Use Restriction Land
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Property must remain in industrial use only.

VCS:
Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Institutional Control
Start Date: 02/26/2002
End Date: Not reported
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Site added to database
Start Date: 03/16/1999
End Date: 03/16/1999
Program: VCS
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: RECORD OF DECISION
Start Date: 02/08/2001
End Date: 02/08/2001
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: No Further Action (Conditional)
Start Date: 02/26/2002
End Date: 02/26/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Site Screening recommended (EV)
Start Date: 03/16/1999
End Date: 03/16/1999
Program: VCS
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 09/07/1999
End Date: 09/07/1999
Program: VCS
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Proposal for Inventory recommended
Start Date: 12/05/2001
End Date: Not reported
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Proposal for Confirmed Release List recommended
Start Date: 12/05/2001
End Date: 12/05/2001
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Engineering Control
Start Date: 02/26/2002
End Date: Not reported
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: REMOVAL
Start Date: 10/01/1999
End Date: 02/28/2000
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: FEASIBILITY STUDY
Start Date: 10/16/1999
End Date: 02/26/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Facility proposed for Inventory
Start Date: 03/29/2002
End Date: 03/29/2002
Program: ICP

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Facility proposed for Confirmed Release List
Start Date: 03/29/2002
End Date: 03/29/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Facility placed on Confirmed Release List
Start Date: 07/25/2002
End Date: 07/25/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: REMEDIAL INVESTIGATION
Start Date: 10/27/2000
End Date: 02/26/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Facility placed on Inventory
Start Date: 07/25/2002
End Date: 07/25/2002
Program: ICP
Latitude: 45.5319
Longitude: -122.6848

Name: GENDER MACHINE WORKS, INC.
Address: 1335 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2313
Facility Size: 0.92 acres
Action: Independent Cleanup Program

VERIZON BUSINESS -ORPRALOR (Continued) **S111256746**

Start Date:	07/27/1999
End Date:	02/26/2002
Program:	ICP
Latitude:	45.5319
Longitude:	-122.6848

J33 **HEATING OIL TANK** **OR LUST** **S103839013**
South **1205 NW MARSHALL** **N/A**
1/8-1/4 **PORTLAND, OR 97201**
0.194 mi.
1023 ft. **Site 1 of 3 in cluster J**

Relative: LUST:
Higher

Actual: Name:	HEATING OIL TANK
41 ft. Address:	1205 NW MARSHALL
City,State,Zip:	PORTLAND, OR 97201
Region:	North Western Region
Facility ID:	26-99-0331
Cleanup Received Date:	04/07/1999
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**02/09/2004**
Decode for Region:	**North West Region**

K34 **ODA LABORATORY SERVICES** **RCRA-VSQG** **1004771651**
SE **1207 NW NAITO PKY STE 204** **ORQ000012104**
1/8-1/4 **PORTLAND, OR 97209**
0.206 mi.
1086 ft. **Site 1 of 2 in cluster K**

Relative: RCRA-VSQG:
Lower

Actual: Date Form Received by Agency:		20041231
33 ft. Handler Name:	ODA LABORATORY SERVICES	
Handler Address:		1207 NW NAITO PKY STE 204
Handler City,State,Zip:		PORTLAND, OR 97209
EPA ID:		ORQ000012104
Contact Name:		KATHLEEN WICKMAN
Contact Address:		1207 NW NAITO PKY STE 204
Contact City,State,Zip:		PORTLAND, OR 97209-2835
Contact Telephone:		503-872-6644
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		10
Land Type:		State
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1207 NW NAITO PKY STE 204
Mailing City,State,Zip:		PORTLAND, OR 97209
Owner Name:		OREGON DEPT OF ADMINISTRATIVE SERVICES
Owner Type:		State
Operator Name:		OREGON DEPT OF AGRICULTURE - LAB SERVICE

ODA LABORATORY SERVICES (Continued) **1004771651**

Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

ODA LABORATORY SERVICES (Continued) **1004771651**

Hazardous Waste Summary:
Waste Code: NONE
Waste Description: Not Defined

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: OREGON DEPT OF AGRICULTURE - LAB SERVICE
Legal Status: State
Date Became Current: 19990501
Date Ended Current: Not reported
Owner/Operator Address: 1207 NW NAITO SUITE 204
Owner/Operator City,State,Zip: PORTLAND, OR 97209-2835
Owner/Operator Telephone: 503-872-6644
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status: State
Date Became Current: 20010220
Date Ended Current: Not reported
Owner/Operator Address: 1225 FERRY STREET SE
Owner/Operator City,State,Zip: SALEM, OR 97301-4280
Owner/Operator Telephone: 503-378-2865
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status: State
Date Became Current: 20020117
Date Ended Current: Not reported
Owner/Operator Address: 1225 FERRY STREET SE
Owner/Operator City,State,Zip: SALEM, OR 97301-4280
Owner/Operator Telephone: 503-378-2865
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status: State
Date Became Current: 20000209
Date Ended Current: Not reported
Owner/Operator Address: 1225 FERRY STREET SE
Owner/Operator City,State,Zip: SALEM, OR 97301-4280
Owner/Operator Telephone: 503-378-2865
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status: State

ODA LABORATORY SERVICES (Continued) **1004771651**

Date Became Current:	20030221
Date Ended Current:	Not reported
Owner/Operator Address:	1225 FERRY STREET SE
Owner/Operator City,State,Zip:	SALEM, OR 97301-4280
Owner/Operator Telephone:	503-378-2865
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status:	State
Date Became Current:	19990607
Date Ended Current:	Not reported
Owner/Operator Address:	1225 FERRY STREET SE
Owner/Operator City,State,Zip:	SALEM, OR 97301-4280
Owner/Operator Telephone:	503-378-2865
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	OREGON DEPT OF ADMINISTRATIVE SERVICES
Legal Status:	State
Date Became Current:	19990607
Date Ended Current:	Not reported
Owner/Operator Address:	1225 FERRY STREET SE
Owner/Operator City,State,Zip:	SALEM, OR 97301-4280
Owner/Operator Telephone:	503-378-2865
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	OREGON DEPT OF AGRICULTURE - LAB SERVICE
Legal Status:	State
Date Became Current:	19990501
Date Ended Current:	Not reported
Owner/Operator Address:	1207 NW NAITO SUITE 204
Owner/Operator City,State,Zip:	PORTLAND, OR 97209-2835
Owner/Operator Telephone:	503-872-6644
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	OREGON DEPT OF AGRICULTURE - LAB SERVICE
Legal Status:	State
Date Became Current:	19990501
Date Ended Current:	Not reported
Owner/Operator Address:	1207 NW NAITO SUITE 204
Owner/Operator City,State,Zip:	PORTLAND, OR 97209-2835
Owner/Operator Telephone:	503-872-6644
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ODA LABORATORY SERVICES (Continued) **1004771651**

Historic Generators:

Receive Date:	19990607
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20000209
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20010220
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020117
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20030221
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported

ODA LABORATORY SERVICES (Continued) **1004771651**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20041231
Handler Name:	ODA LABORATORY SERVICES
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	54138
NAICS Description:	TESTING LABORATORIES AND SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

K35 **UNION STATION PARCEL A NORTH** **OR CRL** **S106847053**
SE **1207 NW NAITO PKWY.** **OR ECSI** **N/A**
1/8-1/4 **PORTLAND, OR 97209** **OR ENG CONTROLS**
0.206 mi. **OR VCP**
1086 ft. **Site 2 of 2 in cluster K** **OR BROWNFIELDS**

Relative:
Lower

Actual:
33 ft.

CRL:

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
Facility ID:	1962
Location ID:	30713
Status Code:	LIS
Facility Status:	Partial No Further Action
Lat/Long:	45.5315 / -122.6782

ECSI:

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	1962
Brown ID:	Brownfield Site - DEQ Tech Assistance
Study Area:	False

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Region ID: Not reported
Legislatve ID: 831
Investigation: Listed on the CRL/Inventory
FACA ID: 30713
Further Action: 260
Lat/Long (dms): 45 31 53.40 / -122 40 41.50
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: 600, 501
Size: Not reported
NPL: False
Orphan: False
Updated By: DHAFLEY
Update Date: 10/21/2019
Created Date: 11/15/1996
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Low
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: Food Innovation Center
Alias Name: Portland Development Commission (PDC)
Alias Name: One Waterfront Place

Hazardous Release:
Substance ID.: 122012
Haz Release ID: 381388
Qty Released: Not reported
Date Released: Not reported
Update Date: 02/13/1998
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 341526
Feature Id: Not reported
Hazard Release Id: 381388
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 10/01/1997
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 2,300 ppm
Last Update By: jmd
Update Date: 02/20/1998
Decode for MediumID: Soil

Substance ID.: 122002
Haz Release ID: 381389
Qty Released: Not reported
Date Released: Not reported
Update Date: 02/13/1998
Update By: Not reported
Substance Code: ECD243
Substance Name: POLYAROMATIC HYDROCARBONS (PAH)
Substance Abbrev.: Not reported
Substance Alias ID: 318143
Sub Alias Name: PAH
Substance Alias ID: 318148
Sub Alias Name: POLYCYCLIC AROMATIC HYDROCARBONS (PAH)
Substance Alias ID: 318149
Sub Alias Name: POLYNUCLEAR AROMATIC HYDROCARBINS (PNA)
Substance Alias ID: 318150
Sub Alias Name: PNA
Sampling Result ID: 341527
Feature Id: Not reported
Hazard Release Id: 381389
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 10/01/1997
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1.2 ppm
Last Update By: jmd
Update Date: 02/20/1998
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 381390
Qty Released: Not reported
Date Released: Not reported
Update Date: 02/13/1998
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 341528
Feature Id: Not reported
Hazard Release Id: 381390
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 10/01/1997
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 792 ppm
Last Update By: jmd
Update Date: 02/20/1998
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 381391
Qty Released: Not reported
Date Released: Not reported
Update Date: 02/13/1998
Update By: Not reported
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 341529
Feature Id: Not reported
Hazard Release Id: 381391
Medium: 703

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 10/01/1997
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 24 ppm
Last Update By: jmd
Update Date: 02/20/1998
Decode for MediumID: Soil

Narrative:

NARR ID: 5736402
NARR Code: Site Contacts
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/21/2019
Decode for NarcdID: Site Contacts
NARR Comments: Colin Polk, Environmental Manager, Prosper Portland (Lot 2) Madrona Park LLC (Lot 2) Stewart Simmons - OSU Food Innovation Center (Lot 1) 3015 SW Western Blvd Corvallis, OR 97331 (541) 737-4050

NARR ID: 5736403
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/18/2012
Decode for NarcdID: Contamination
NARR Comments: Union Station and its associated railyards were built with fill placed over the former Couch Lake in the 1890s. A hundred years later, Union Station was still open for passenger rail traffic, but the railroad switching yards were no longer needed. In the mid-1990s, PDC (the Portland Development Commission) acquired railyards both north and south of the Broadway Bridge (Parcel A North and Parcel B South, respectively). Parcel A North was acquired from the Portland Terminal Railroad Company. PDC signed a Letter Agreement with DEQ's Voluntary Cleanup Program (VCP) in late 1996, requesting review of a Remedial Investigation and other activities that were already taking place at the site. (The Remedial Investigation was completed in October 1996). Investigation identified elevated PAHs, lead, and arsenic in shallow and deeper soil, with concentrations in shallow soil (only) exceeding risk-based concentrations. Groundwater is not significantly impacted.

NARR ID: 5736404
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 02/15/2020
Decode for NarcdID: Data Sources
NARR Comments: 1) Level 1 Environmental Investigation. AGRA, 1991 2) Focused

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Subsurface Investigation. De Minimus, 1995 3) Phase I Environmental site Assessment Update. Newcheck, 1995 4) A Subsurface Environmental Characterization Report. AGRA, 1996 5) An Additional Subsurface Environmental Characterization Report. AGRA, 1996 6) Comprehensive Remedial Investigation Report. AGRA, 1996 7) Feasibility Study. AGRA, 1996 8) Remedial Action Work Plan. AGRA, 1996 9) DEQ Record of Decision, 1998 10) Lot 1 Closure Report. AMEC, 2013 11) Lot 1 Closure Memo (DEQ). March 2013. 12) Easement and Equitable Servitude, Lot 1. 2019. 13) Conditional NFA, Lot 1. October 2019. 14) Harbor of Hope Remedial Action Plan for temporary cap. 2019. 15) Implementation Notification, Harbor of Hope Navigation Center (draft). October 2019. 16) DEQ letter, receipt of Implementation Notification. October 31, 2019. 17) Various documents related to Winkler suit against DEQ relating to approval for temporary use of site for OHOH navigation center. 18) Winkler Settlement, January 2020. 19) First Semi-Annual Temporary Cap Inspection Report. Farallon; February 2020. 13) DEQ Files

NARR ID: 5736405
NARR Code: General Site Description
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/18/2012
Decode for NarcdID: General Site Description
NARR Comments: Union Station - Parcel A North. Also known as Union Station, Lot 1 and Union Station, Lot 2. Located in 1N1E Section 34 BB. Lot 1 has been developed as the Oregon Statue Universit/Oregon Dept. of Agriculture - Food Innovation Center. Lot 2 to the south remains undeveloped but has a temporary clean soil cap. The site is located on the NW by NW Naito Parkway, on the south by the Union Station-Parcel B South site, on the southwest by Union Station as associated rail tracks, and on the northwest by NW Ninth Avenue. The Broadway Bridge crosses over the southern section of Lot 2.

NARR ID: 5736406
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Polynuclear aromatic hydrocarbons (PAHs), petroleum hydrocarbons, lead, and arsenic.

NARR ID: 5736407
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/18/2012
Decode for NarcdID: Site Location
NARR Comments: River District of downtown Portland, just north of the city center. West of the Willamette River.

NARR ID: 5736408
NARR Code: Manner of Release

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Lead, arsenic, PAHs originated from dredge fill placed on the site. TPH from surface releases resulting from historic railroad operations. Not reported

NARR ID: 5736409
NARR Code: Site Ownership
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/18/2012
Decode for NarcdID: Site Ownership
NARR Comments: PDC purchased site (Lots 1 and 2) from Portland Terminal Railroad in 1987. Lot 1 was sold to OSU in 1997 for redevelopment. Lot 2 was sold to Winkler Properties for a time, but is now again owned by the PDC.

NARR ID: 5736410
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 03/04/2003
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Union Station is located in Northwest Portland, adjacent to the Broadway Bridge. The Willamette River is about a block to the east. The area is a transportation hub, receiving regional and national Amtrak passenger rail traffic at the station, national bus service at the Greyhound Station (about three blocks south), and local Tri-Met bus traffic from the transit mall on 5th and 6th Avenues. High density residential housing is present within a couple of blocks to the south and west.

NARR ID: 5736411
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 05/06/2014
Decode for NarcdID: Remedial Action
NARR Comments: (2/18/2003 ACV/VCP) In December 1997 the Risk Assessment and Feasibility Study were completed. After a public comment period in March 1998, the Record of Decision was finalized in August 1998. However, construction of an engineered cap and building on Lot 1 was started in May 1998. Lot 1 was sold to Oregon State University (OSU) and redeveloped as the Union Station Agricultural Marketing Center. The Center was completed in the spring of 1999. Construction has yet to begin on Lot 2.

NARR ID: 5754246
NARR Code: 1922
Created By: DHAFLEY
Created Date: 10/18/2012
Updated By: DHAFLEY

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Updated Date: 02/15/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [May 2014] Site investigation was begun in 1991; the majority of soil and groundwater investigation was completed in 1996 under DEQ's voluntary cleanup program. Elevated PAHs, lead, and arsenic were detected in shallow soil. Groundwater was not determined to be significantly impacted. A 1997 risk assessment identified risk to site occupants from contamination in shallow soil and so-called <quot>black layer<quot> soil present at less than 5 feet bgs. A 1997 feasibility study evaluted remedial options for shallow soil, including capping and excavation/disposal. Given the area of contamination and a lack of hot spots, soil capping and institutional controls were recommended. DEQ staff report recommended engineering and institutional controls as a site remedy consistent with the FS. Public notice of the proposed remedy was issued in 1998; no comment were received. The site remedy was memorialized in a June 1998 Record of Decision. A (final) Remedial Action Work Plan for the entire site was completed in February 1999 and approved by DEQ. Lot 1 capping was completed in 1998/1999 as part of site development. Lot 1 is now capped by the OSU Food Innovation Center and associated parking and landscaping. Cap inspections were performed from 1999 to 2009 on an annual basis. In April 2010 DEQ approved modification of the cap inspection schedule to once every five years. A conditional NFA was issued for the Food Innovation Center (Lot 1) in 2019. A cap inspection was also completed, and the next is due in 2023. The Lot 2 portion of the site owned by Madrona Park LLC (Winkler) has not been capped or developed, nor has the Prosper Portland-owned parcel. In 2019, a temporary cap was installed on a portion of the PP parcel, under a work plan approved by DEQ, to facilitate the Oregon Harbor of Hope houseless community navigation center. This does not represent a final remedy but is considered protective for temporary use. Access to the remainder of the PP parcel/lot is restricted by fencing. In 2018, planning began for development of Harbor of Hope on the southern portion of the site, which would involve short-term (~5 years) use. A draft Remedial Action Plan was submitted to DEQ in August 2018, outlining plans for installation of clean fill and hardscape in HOH use areas. The plan is currently under review. DEQ approved the plan in 2018, and construction of the temporary cap was completed in 2019. An implementation report was submitted in October 2019 and found to be acceptable. Formal cap inspections will be completed every six months. OHOH is built and in use. In December 2019, Winkler proposed dismissal of suit again DEQ related to approval for temporary capping and use. Suit dismissal finalized in early 2020. First semi-annual temporary cap inspection report approved by DEQ in February 2020.

Site Control:
Site Control #: 1263
Control Number: 36
Begin Date: 10/31/2019
End Date: Not reported
Frequency Of Review: 6
Last Reviewed By: October 2019
Last Reviewed Date: 10/31/2019
Last Update By: DHAFLEY
Last Updated Date: 10/31/2019
Site Comment: Temporary cap in place at Oregon Harbor of Hope. Twice-yearly inspections required starting in early 2020.

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Site Control #: 259
Control Number: 36
Begin Date: 05/10/1999
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Stewart Simmons, OSU
Last Reviewed Date: 05/31/2019
Last Update By: DHAFLEY
Last Updated Date: 10/21/2019
Site Comment: Construction of an engineered cap and building on Lot 1 was started in May 1998. Lot 1 was sold to Oregon State University and redeveloped as the Union Station Agricultural Marketing Center; construction was completed in the spring of the year 1999. Cap inspections for 2003-2005 are missing from file records. Last cap inspection 5/2019. Next inspection due 2024. [2017] An EES has not been filed yet and the site does not have an NFA yet. Cap is in place and inspections are being performed. [2019] EES recording pending. NFA to be issued in 2019.

Administrative Action:
Action ID: 9429
Region: Northwestern Region
Complete Date: 12/30/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: Not reported
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: Not reported
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 08/24/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Action: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Northwestern Region
Complete Date: 01/20/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 01/20/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 01/20/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/17/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 01/01/1997
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/04/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 11/13/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 11/14/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: Not reported

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: Low
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 04/16/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 04/16/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 04/29/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 01/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 01/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 11/13/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9459

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Region: Northwestern Region
Complete Date: 11/13/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 12/30/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9413
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/06/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: 0
Complete Date: 12/05/1996
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/10/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133237
Operation Status: Inactive

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Common Name: Union Station Railyards
Yrs of Operation: 1890s to 1997
Comments: railyard
Updated Date: 08/07/2002
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 197945
SIC Code: 4013
Created By: Not reported
Created Date: 12/17/2002

Enginering Control:
Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1263
Site Id: 1962
Control Sequence #: 36
Begin Date: 10/31/2019
End Date: Not reported
Frequency Of Review: 6
Last Reviewed By: October 2019
Last Review Date: 10/31/2019
Last Updated By: DHAFLEY
Last Updated Date: 10/31/2019
Group Sequence #: 9
Control Code: CPE
Control Description: Cap, engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Temporary cap in place at Oregon Harbor of Hope. Twice-yearly inspections required starting in early 2020.

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 259
Site Id: 1962
Control Sequence #: 36
Begin Date: 05/10/1999
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Stewart Simmons, OSU
Last Review Date: 05/31/2019
Last Updated By: DHAFLEY
Last Updated Date: 10/21/2019
Group Sequence #: 9
Control Code: CPE
Control Description: Cap, engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Comments: Construction of an engineered cap and building on Lot 1 was started in May 1998. Lot 1 was sold to Oregon State University and redeveloped as the Union Station Agricultural Marketing Center; construction was completed in the spring of the year 1999. Cap inspections for 2003-2005 are missing from file records. Last cap inspection 5/2019. Next inspection due 2024. [2017] An EES has not been filed yet and the site does not have an NFA yet. Cap is in place and inspections are being performed. [2019] EES recording pending. NFA to be issued in 2019.

VCS:

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1962
Facility Size:	Not reported
Action:	Facility proposed for Inventory
Start Date:	01/28/1999
End Date:	01/28/1999
Program:	VCP
Latitude:	45.5315
Longitude:	-122.6782

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1962
Facility Size:	Not reported
Action:	REMEDIAL INVESTIGATION
Start Date:	11/14/1996
End Date:	11/14/1996
Program:	VCS
Latitude:	45.5315
Longitude:	-122.6782

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1962
Facility Size:	Not reported
Action:	Engineering Control
Start Date:	03/17/2008
End Date:	Not reported
Program:	VCS
Latitude:	45.5315
Longitude:	-122.6782

Name:	UNION STATION PARCEL A NORTH
Address:	1207 NW NAITO PKWY.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1962
Facility Size:	Not reported
Action:	VCS Waiting List
Start Date:	11/06/1996
End Date:	11/13/1996
Program:	VCS
Latitude:	45.5315

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Institutional Control
Start Date: 05/01/1998
End Date: Not reported
Program: VCS
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: REMEDIAL ACTION
Start Date: 05/01/1998
End Date: 04/29/2003
Program: VCS
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: RECORD OF DECISION
Start Date: 01/01/1998
End Date: 08/24/1998
Program: VCS
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Engineering Control
Start Date: 05/01/1998
End Date: Not reported
Program: VCS
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Closeout activities on completed project
Start Date: 03/15/2014

UNION STATION PARCEL A NORTH (Continued) **S106847053**

End Date: Not reported
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: NEGOTIATIONS
Start Date: 11/14/1996
End Date: 01/01/1997
Program: VCS
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: RISK ASSESSMENT
Start Date: 11/14/1996
End Date: 12/30/1997
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 11/06/1996
End Date: 11/13/1996
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: SITE EVALUATION
Start Date: 11/06/1996
End Date: 11/13/1996
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Facility Size: Not reported
Action: Proposal for Inventory recommended
Start Date: 01/20/1999
End Date: 01/20/1999
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Proposal for Confirmed Release List recommended
Start Date: 01/20/1999
End Date: 01/20/1999
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Listing Review completed
Start Date: 01/18/1999
End Date: 01/20/1999
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Partial No Further Action
Start Date: 10/21/2019
End Date: Not reported
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: FEASIBILITY STUDY
Start Date: 11/14/1996
End Date: 12/30/1997
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

Name: UNION STATION PARCEL A NORTH

UNION STATION PARCEL A NORTH (Continued) **S106847053**

Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1962
Facility Size: Not reported
Action: Facility proposed for Confirmed Release List
Start Date: 01/28/1999
End Date: 01/28/1999
Program: VCP
Latitude: 45.5315
Longitude: -122.6782

OR BROWNFIELDS:
Name: UNION STATION PARCEL A NORTH
Address: 1207 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
Geolocation Id: 30713
Status: Partial No Further Action
Lat/Long: 45.5315 / -122.678

J36 **MARSHALL** **SEMS-ARCHIVE** **1000705882**
South **1220 NW MARSHALL ST** **RCRA NonGen / NLR** **ORD027764349**
1/8-1/4 **PORTLAND, OR 97209**
0.214 mi.
1130 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
41 ft.

SEMS Archive:
Site ID: 1000400
EPA ID: ORD027764349
Name: WILBUR - ELLIS
Address: 1220 NW MARSHALL ST
Address 2: Not reported
City,State,Zip: PORTLAND, OR 97217
Cong District: 01
FIPS Code: 41051
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 10
Site ID: 1000400
EPA ID: ORD027764349
Site Name: WILBUR - ELLIS
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1984-09-28 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 10
Site ID: 1000400
EPA ID: ORD027764349
Site Name: WILBUR - ELLIS

MARSHALL (Continued) **1000705882**

NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1983-11-01 05:00:00
Finish Date:	1984-09-28 05:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	10
Site ID:	1000400
EPA ID:	ORD027764349
Site Name:	WILBUR - ELLIS
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-03-24 05:00:00
Finish Date:	1980-03-24 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

RCRA NonGen / NLR:

Date Form Received by Agency:		19910408
Handler Name:	WILBUR-ELLIS COMPANY	
Handler Address:		1220 NW MARSHALL ST
Handler City,State,Zip:		PORTLAND, OR 97210
EPA ID:		ORD027764349
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		10
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		OR
State District:		ORNWRO
Mailing Address:		NOT IN FILE
Mailing City,State,Zip:		NOT IN FILE, OR
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No

MARSHALL (Continued) **1000705882**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:
Waste Code: D000

MARSHALL (Continued) **1000705882**

Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: P020
Waste Description: DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-

Waste Code: P035
Waste Description: Not Defined

Waste Code: P039
Waste Description: DISULFOTON (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER

Waste Code: P044
Waste Description: DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER

Waste Code: P050
Waste Description: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6, 9,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN

Waste Code: P066
Waste Description: ETHANIMIDOTHIOIC ACID, N-[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER (OR) METHOMYL

Waste Code: P070
Waste Description: ALDICARB (OR) PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-[(METHYLAMINO)CARBONYL]OXIME

Waste Code: P071
Waste Description: METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER

Waste Code: P088
Waste Description: 7-OXABICYCLO[2.2.1]HEPTANE-2,3-DICARBOXYLIC ACID (OR) ENDOTHALL

Waste Code: P089
Waste Description: PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER

Waste Code: P090
Waste Description: Not Defined

Waste Code: P094
Waste Description: PHORATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER

Waste Code: P108
Waste Description: STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS

Waste Code: P122
Waste Description: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 10%

MARSHALL (Continued) **1000705882**

(R,T)

Waste Code: U011
Waste Description: 1H-1,2,4-TRIAZOL-3-AMINE (OR) AMITROLE

Waste Code: U036
Waste Description: 4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO- (OR) CHLORDANE, ALPHA & GAMMA ISOMERS

Waste Code: U062
Waste Description: CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3-DICHLORO-2-PROPENYL) ESTER (OR) DIALLATE

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U127
Waste Description: BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE

Waste Code: U148
Waste Description: 3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO- (OR) MALEIC HYDRAZIDE

Waste Code: U185
Waste Description: BENZENE, PENTACHLORONITRO- (OR) PENTACHLORONITROBENZENE (PCNB)

Waste Code: U211
Waste Description: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

Waste Code: U224
Waste Description: Not Defined

Waste Code: U232
Waste Description: Not Defined

Waste Code: U233
Waste Description: Not Defined

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: WILBUR ELLIS COMPANY
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 320 CALIFORNIA ST
Owner/Operator City,State,Zip: SAN FRANCISCO, CA 94120
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19910408

MARSHALL (Continued) **1000705882**

Handler Name:	WILBUR-ELLIS COMPANY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	OR
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800818
Handler Name:	WILBUR-ELLIS COMPANY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	OR
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	42291
NAICS Description:	FARM SUPPLIES WHOLESALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

J37 **HEATING OIL TANK** **OR ECSI** **S103842283**
South **1220 NW MARSHALL ST** **OR LUST** **N/A**
1/8-1/4 **PORTLAND, OR 97209** **OR VCP**
0.214 mi.
1130 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
41 ft.

ECSI:

Name:	LOVEJOY BLOCK 2 DEVELOPMENT
Address:	1220 NW MARSHALL ST.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	1331
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	102347
Further Action:	0
Lat/Long (dms):	45 31 50.50 / -122 41 1.30
County Code:	26.00

HEATING OIL TANK (Continued) **S103842283**

Score Value: Not reported
Cerclis ID: 027764349
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 28
Qtr Section: Not reported
Tax Lots: Not reported
Size: 0.92 acres
NPL: False
Orphan: False
Updated By: CHARMAN
Update Date: 10/06/2008
Created Date: 01/24/1993
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Wilbur-Ellis Co. - Portland

Narrative:
NARR ID: 5732722
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (12/3/93 KPD/SAS) From 1953 until at least 1980, the facility was a warehouse and distribution center for agricultural chemicals and fertilizers. EPA investigated the site in 1980. A <quot>mosquitocide<quot> (Baytex) was formulated at the warehouse from Fenthion, an organo-phosphate pesticide. The mixing was done in the container the Fenthion was shipped in. Occasional spills of other materials in the warehouse were cleaned up with absorbent material, placed in drums, and shipped to the Chem-Nuclear disposal site. EPA reviewed this information in a 1983 Preliminary Assessment (PA) and decided no further action was necessary under the federal Superfund program.

NARR ID: 5750761
NARR Code: Data Sources
Created By: CHARMAN
Created Date: 08/21/2008
Updated By: CHARMAN
Updated Date: 08/21/2008
Decode for NarcdID: Data Sources
NARR Comments: Hahn and Associates, Inc., Final Site Cleanup and Risk Evaluation Report, Lovejoy Block 2 Development, 1200 NW Marshall Street, Portland, Oregon, July 21, 2008. Hahn and Associates, Inc., Response to Comments in February 6, 2006 Letter and March 4, 2008 Meeting, Lovejoy Block 2 Development, 1200 NW Marshall Street, Portland, Oregon, May 30, 2008. Hahn and Associates, Inc., Site Cleanup and Risk Evaluation Report, Lovejoy Block 2 Development, 1200 NW Marshall Street, Portland, Oregon, December 20, 2007. Remediation Technologies, Inc., Groundwater Beneficial Use Assessment for the

HEATING OIL TANK (Continued) **S103842283**

Hoyt Street Railyard and surrounding Area, Portland, Oregon, Prepared for the Burlington Northern and Santa Fe Railway Company; March 27, 1997.

NARR ID: 5750762
NARR Code: Hazardous Substance/Waste Types
Created By: CHARMAN
Created Date: 08/21/2008
Updated By: CHARMAN
Updated Date: 08/21/2008
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: (8/21/08 CWH/CU&ER) Based on the Phase II assessments and site history provided by Unico, the primary contaminants of concern (COCs) at the site are petroleum hydrocarbons, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), chlorinated pesticides, and metals.

NARR ID: 5732723
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: CHARMAN
Updated Date: 10/20/2011
Decode for NarcdID: Remedial Action
NARR Comments: (12/3/93 KPD/SAS) The warehouse is currently being used for distributing animal feed products. There is no indication that hazardous substances have been generated or disposed of at the site. Site Assessment recommends that no further action be taken at this time. (KPD/SAS) NFA letter sent 3/14/94. (8/21/08 CWH/CU&ER) With the exception of the former Wilbur Ellis building and a former UST installation in the northwest corner of the site, the main areas where contamination sources were present were on the south side of the property. The major actions taken at the Lovejoy Block 2 property to assess and remediate the site included the following - a. A 675-gallon underground heating oil tank was decommissioned by removal. A second heating oil tank, estimated to be 10,000-gallons, was found along NW 13th Avenue, adjacent to the building, but it had previously been decommissioned in place and filled with sand. b. Old petroleum-contaminated soil fill placed in an old basement (south side) was removed. c. Removal of an area of primarily petroleum contaminated soil in the southwest corner of the property. d. Removal of old contaminated fill down to 3 feet below street level across the entire property. e. Removal of creosote contaminated soil and wood debris buried near the southeast corner of the property, found down to 8 feet below street level. f. No soil contamination or indications of tanks, fuel piping, etc., based on test pits dug in area of former Autos building (southeast corner). g. No soil contamination or other indications of contaminant sources in test pits established in the former oil mixing vats area at the southwest corner of the property. h. Removal of two underground injection control devices (UICs) located in the south central and near the southeast corner of the property. DEQ s UIC program has received the decommissioning forms for the two UICs. i. In total, between February and May of 2007, approximately 4,826 tons (3,700 cubic yards) of petroleum contaminated soils were removed from the site as part of redevelopment activities. In October 2008 DEQ issued a no further

HEATING OIL TANK (Continued) **S103842283**

action determination for the site.

NARR ID: 5750760
NARR Code: Residual Risk Assessment
Created By: CHARMAN
Created Date: 08/21/2008
Updated By: CHARMAN
Updated Date: 08/21/2008
Decode for NarcdID: Residual Risk Assessment
NARR Comments: (8/21/08 CWH/CU&ER) While a significant soil removal did occur, there were several areas where subsurface soil and groundwater contamination was left in place. The areas where residual soil contamination, above human-health risk-based screening concentrations were left in place, as also noted graphically in Attachment B (Figure 3 from SI report) are as follows: a. Residential petroleum in soils in northwest tank area: There was a small area of soil contamination, considered to be above 500 ppm heavy oil range hydrocarbons, beyond the soils excavated around the former 675-gallon heating oil tank (see Figure 6 in July 31, 2008 HAI report). b. Small pockets of petroleum contamination in southwest corner: Soil sample 704 detected gasoline range hydrocarbons at 2,760 ppm, above the RBCs for Urban residential, occupational and construction worker direct contact exposure and the RBC for Urban Residential indoor air vapor intrusion. c. Residual areas of contamination around the two drywells: Concentrations of gasoline- and oil-range hydrocarbons, several PAHs, arsenic and benzene in subsurface soil (24.5 feet bgs) exceeded RBCs for urban residential and occupational vapor intrusion into indoor air around the former Drywell #1 location. HAI calculated a benzene indoor air concentration using the maximum soil detection near drywell #1 and found it to be below the DEQ RBC for indoor air for an occupational setting. The Urban Residential pathway was not considered to be applicable since residences start on the fourth floor and are above three levels of an open-air parking garage. Groundwater sampling conducted at borings P-1, P-2, and P-3, as well as monitoring well MW-2, all completed at inferred down-gradient locations from Drywell #2 within the uppermost groundwater, detected chlorinated VOCs at very low concentrations including chloroform, carbon tetrachloride, and tetrachloroethene (PCE). None of the chlorinated VOCs were detected at concentrations exceeding target cleanup levels, including EPA MCLs used by the DEQ UIC Program. d. Elevated concentrations of arsenic across southern half of property: Several soil samples, in different locations across the site, acquired around 6 feet below street level (bsl), showed elevated arsenic concentrations. Arsenic concentrations ranged from 13.6 to 20.7 ppm in 5 samples, above the expected Oregon background concentration of 7 ppm. The consultant could not determine a specific source for the elevated arsenic based on observable characteristics and the elevated samples were found in locations across the southern part of the property.

NARR ID: 5750759
NARR Code: Water Use (Current/Reasonably Likely)
Created By: CHARMAN
Created Date: 08/21/2008
Updated By: CHARMAN
Updated Date: 08/21/2008
Decode for NarcdID: Water Use (Current/Reasonably Likely)

HEATING OIL TANK (Continued) **S103842283**

NARR Comments: (CWH/CU&ER 8/21/08) A beneficial water use determination performed on an adjacent site - former Hoyt Rail Yard - concluded that the beneficial use of groundwater in this area was as recharge to the Willamette River to the north. There is no local use of groundwater for domestic drinking water. DEQ concurs with this analysis.

NARR ID: 5750763
NARR Code: Site History
Created By: CHARMAN
Created Date: 08/21/2008
Updated By: CHARMAN
Updated Date: 08/21/2008
Decode for NarcdID: Site History
NARR Comments: (8/21/08 CWH/CU&ER) The property located between NW Lovejoy, Marshall, 12th and 13th has historically been used by a variety of agricultural, commercial and industrial businesses. Prior businesses and/or uses that have been located on portions of the property were a coal shed (1909-34); wood shed (1909-34); Oil mixing and boiler room (1909); auto servicing (1926+); sash and door warehouse (1909-50 (?)); food storage warehouse (1937-1965); agricultural products warehouse (1965-2006); and a battery service area (1950+). This site was entered into DEQ s Environmental Cleanup Site Information database (ECSI) in January of 1993 as site #1331, Wilbur Ellis Company , due to the past storage, mixing and distribution of pesticides and herbicides. In December of 1993, DEQ recorded a no further action (NFA) decision based the observation, at that time, that there was no indication of a hazardous substance release at the site from the pesticide handling operation. Phase II environmental investigation work performed on the site between 1993 and 2006, and initial site development preparation work performed in 2007 revealed several sources of contamination on the site Two underground storage tanks, one of which was located underneath 13th Avenue and had previously been decommissioned in place; Apparent placement of contaminated fill soils in several areas on the site, primarily along the south side, even within the basement of a prior structure; A petroleum release of unknown origin in the southeast area of the site; A deeper area of creosote contaminated soils in the central southeast area of the site; and Two former drywells (a.k.a. underground injection controls, or UICs) in the southeast section of the site.

Administrative Action:
Action ID: 9519
Region: Northwestern Region
Complete Date: 08/13/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/11/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Northwestern Region

HEATING OIL TANK (Continued) **S103842283**

Complete Date: 10/02/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/13/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 10/02/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/06/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9421
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9444
Region: 0
Complete Date: 09/28/1984
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 12/03/1993

HEATING OIL TANK (Continued) **S103842283**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Headquarters
Complete Date: 12/06/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9457
Region: Not reported
Complete Date: 09/28/1984
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Basic Preliminary Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 12/04/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9427
Region: Headquarters
Complete Date: Not reported
Rank Value: 0

HEATING OIL TANK (Continued) **S103842283**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Excluded from confirmed release definition
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132647
Operation Status: Active
Common Name: Wilbur-Ellis Co.
Yrs of Operation: 1953 to present
Comments: Warehouse and distribution center
Updated Date: 04/04/1996
Updated By: kpd
Decode for OpstatID: Active
Operations SIC Id: 195749
SIC Code: 2077
Created By: Not reported
Created Date: 12/17/2002

LUST:
Name: HEATING OIL TANK
Address: 1220 NW MARSHALL ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-02-0322
Cleanup Received Date: 07/10/2002
Cleanup Start Date: 07/05/2002
Cleanup Complete Date: 08/12/2002
Decode for Region: North West Region

VCS:
Name: LOVEJOY BLOCK 2 DEVELOPMENT
Address: 1220 NW MARSHALL ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1331
Facility Size: 0.92 acres
Action: Independent Cleanup Program
Start Date: 08/13/2007

HEATING OIL TANK (Continued) **S103842283**

End Date: 10/02/2008
Program: ICP
Latitude: 45.5307
Longitude: -122.6837

Name: LOVEJOY BLOCK 2 DEVELOPMENT
Address: 1220 NW MARSHALL ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1331
Facility Size: 0.92 acres
Action: VCS Waiting List
Start Date: 03/26/2007
End Date: 08/13/2007
Program: VCS
Latitude: 45.5307
Longitude: -122.6837

Name: LOVEJOY BLOCK 2 DEVELOPMENT
Address: 1220 NW MARSHALL ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1331
Facility Size: 0.92 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 10/02/2008
End Date: 10/02/2008
Program: ICP
Latitude: 45.5307
Longitude: -122.6837

38
WNW
1/8-1/4
0.214 mi.
1130 ft.

STARK & NORRIS CO **OR LUST U004015071**
1703 NW 16TH AVE **OR UST N/A**
PORTLAND, OR 97209

Relative:
Higher

Actual:
39 ft.

LUST:
Name: STARK & NORRIS CO II
Address: 1703 NW 16TH
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-00-0877
Cleanup Received Date: 10/27/2000
Cleanup Start Date: 10/27/2000
Cleanup Complete Date: 04/04/2001
Decode for Region: North West Region

Name: HEATING OIL TANK
Address: 1703 NW 16TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-00-5613
Cleanup Received Date: 08/17/2000
Cleanup Start Date: 07/24/2000
Cleanup Complete Date: 09/27/2000
Decode for Region: North West Region

UST:

STARK & NORRIS CO (Continued) **U004015071**

Name:	STARK & NORRIS CO
Address:	1703 NW 16TH AVE
City:	PORTLAND
Facility ID:	3880
Facility Telephone:	(503) 283-1256
Permittee Name:	MICHAEL A. FITZ
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	4
Number of Tanks:	4

L39 **NW 16TH STORAGE, LLC** **OR ECSI** **S109493960**
WSW **1323 NW 16TH AVE.** **OR VCP** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.218 mi.
1149 ft. **Site 1 of 4 in cluster L**

Relative:
Higher

Actual:
46 ft.

ECSI:

Name:	NW 16TH STORAGE, LLC
Address:	1323 NW 16TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5120
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	108052
Further Action:	0
Lat/Long (dms):	45 31 56.30 / -122 41 15.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	03/12/2010
Created Date:	01/02/2009
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121781
Haz Release ID:	387724
Qty Released:	unk.
Date Released:	unk.

NW 16TH STORAGE, LLC (Continued) **S109493960**

Update Date: 02/23/2011
Update By: GWISTAR
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE

Narrative:
NARR ID: 5751354
NARR Code: Site Contacts
Created By: BSCHWAR
Created Date: 04/07/2009
Updated By: BSCHWAR
Updated Date: 06/01/2009
Decode for NarcdID: Site Contacts
NARR Comments: Mr. Trevor Rowe NW 16th Storage LLC 1308 NW Everett St Portland, OR 97209 971-222-1288

NARR ID: 5751355
NARR Code: Contamination
Created By: BSCHWAR
Created Date: 04/07/2009
Updated By: BSCHWAR
Updated Date: 04/07/2009
Decode for NarcdID: Contamination
NARR Comments: volatile organic compounds petroleum hydrocarbons

NARR ID: 5751356
NARR Code: General Site Description

NW 16TH STORAGE, LLC (Continued) **S109493960**

Created By: BSCHWAR
Created Date: 04/07/2009
Updated By: GWISTAR
Updated Date: 11/04/2015
Decode for NarcdID: General Site Description
NARR Comments: (Bob Schwarz, April 7, 2009) The site is in northwest Portland, on the west side of NW 16th Avenue, between NW Overton and NW Pettygrove Streets. The site, currently a vacant lot, had been used as a retail fueling station and a tire store. See also LUST log #26-08-0806.

NARR ID: 5751161
NARR Code: Project Activity Status
Created By: ECLARK
Created Date: 01/30/2009
Updated By: ECLARK
Updated Date: 01/30/2009
Decode for NarcdID: Project Activity Status
NARR Comments: This site is cross-referenced to LUST 26-08-0806. LC

NARR ID: 5751358
NARR Code: Remedial Action
Created By: BSCHWAR
Created Date: 04/07/2009
Updated By: GWISTAR
Updated Date: 02/23/2011
Decode for NarcdID: Remedial Action
NARR Comments: (Bob Schwarz, April 7, 2009) Petroleum hydrocarbons and volatile organic compounds (VOCs) were found in soil and groundwater samples collected in 2004 and 2008. Of particular concern, trichloroethylene was found in groundwater at concentrations of up to 248 micrograms per liter (ug/l). The primary exposure pathway of concern is volatilization to indoor air. Soil gas sampling in 2009 also indicated that trichloroethylene could exceed acceptable risk levels in indoor air. The owner is currently evaluating engineering controls in the building now being designed, so that these risks are adequately mitigated. (Bob Schwarz, Dec. 17, 2009) A storage facility was constructed on this property in July and August 2009. Prior to construction, soil, groundwater and soil gas sampling were conducted between 2004 and 2009. Five underground storage tanks and one hydraulic hoist were decommissioned by removal. Approximately 1,000 tons of petroleum-impacted soil were removed and disposed of at Hillsboro Landfill. Residual concentrations of volatile organic compounds are somewhat higher than acceptable risk levels. To address this, environmental controls were incorporated into the design and construction of the new building. An engineered vapor barrier membrane was installed over the concrete slab, covering the entire building footprint. In addition, a passive ventilation trench was installed along the west side of the building. Subsurface vapors collected in this trench are conveyed to vertical pipes leading to the roof at the north and south ends of the building. This venting system is intended to intercept vapors so they do not migrate beneath the adjacent offsite building on the property to the west. Details regarding investigation and cleanup work at this site are presented in DEQ's October 19, 2009 staff report, which is attached. DEQ concluded that these measures are adequate to address residual contamination at the site. We therefore proposed a No Further Action determination. A 30-day public comment period regarding this proposal

NW 16TH STORAGE, LLC (Continued) **S109493960**

was be held in January 2010. No comments were submitted. DEQ therefore issued a No Further Action determination on February 16, 2010.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 01/02/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/02/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 02/16/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/02/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 02/16/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/23/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

VCS:
Name: NW 16TH STORAGE, LLC
Address: 1323 NW 16TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5120
Facility Size: Not reported
Action: REMEDIAL INVESTIGATION
Start Date: 01/02/2009
End Date: 02/16/2010
Program: VCP

NW 16TH STORAGE, LLC (Continued) **S109493960**

Latitude:	45.5323
Longitude:	-122.6876
Name:	NW 16TH STORAGE, LLC
Address:	1323 NW 16TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5120
Facility Size:	Not reported
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	02/16/2010
End Date:	02/16/2010
Program:	VCP
Latitude:	45.5323
Longitude:	-122.6876

L40 **1323 NW 16TH AVE** **OR UST** **U004127298**
WSW **1323 NW 16TH AVE** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.218 mi.
1149 ft. **Site 2 of 4 in cluster L**

Relative: UST:
Higher

Actual:
46 ft.

Name:	1323 NW 16TH AVE
Address:	1323 NW 16TH AVE
City:	PORTLAND
Facility ID:	12337
Facility Telephone:	(503) 227-6593
Permittee Name:	T.B. DAME, PRESIDENT
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	5
Number of Tanks:	5

I41 **HEATING OIL TANK** **OR LUST** **S105856374**
SSW **1107 NW 14TH AVENUE** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.221 mi.
1165 ft. **Site 2 of 2 in cluster I**

Relative: LUST:
Higher

Actual:
44 ft.

Name:	HEATING OIL TANK
Address:	1107 NW 14TH AVENUE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-03-0328
Cleanup Received Date:	02/20/2003
Cleanup Start Date:	02/24/2003
Cleanup Complete Date:	**04/22/2003**
Decode for Region:	**North West Region**

42
WNW
1/8-1/4
0.223 mi.
1179 ft.

HEATING OIL TANK
1631 NW THURMAN
PORTLAND, OR 97209

OR LUST

S101745969
N/A

Relative:
Higher

Actual:
37 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1631 NW THURMAN
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-95-0278
Cleanup Received Date:	10/20/1995
Cleanup Start Date:	10/19/1995
Cleanup Complete Date:	**01/18/1996**
Decode for Region:	**North West Region**

M43
SSE
1/8-1/4
0.228 mi.
1202 ft.

BURLINGTON NORTHERN RAILROAD
1105 NW 9TH AVE
PORTLAND, OR 97209

Site 1 of 2 in cluster M

OR UST

U003115442
N/A

Relative:
Higher

Actual:
36 ft.

UST:

Name:	BURLINGTON NORTHERN RAILROAD
Address:	1105 NW 9TH AVE
City:	PORTLAND
Facility ID:	11506
Facility Telephone:	(503)241-4410
Permittee Name:	OWEN NICKERSON
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	1
Number of Tanks:	1

N44
SE
1/8-1/4
0.230 mi.
1215 ft.

HOYT STREET RAILYARD (FORMER)
NORTH OF LOVEJOY BTWN NW 9TH & 12TH
PORTLAND, OR 97209

Site 1 of 2 in cluster N

OR CRL
OR ECSI
OR ENG CONTROLS
OR INST CONTROL
OR VCP
OR BROWNFIELDS

S111429244
N/A

Relative:
Lower

Actual:
34 ft.

CRL:

Name:	HOYT STREET RAILYARD (FORMER)
Address:	NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip:	PORTLAND, OR 97209
Facility ID:	1080
Location ID:	91852
Status Code:	LIS
Facility Status:	REMEDIAL ACTION
Lat/Long:	45.5314 / -122.6798

ECSI:

Name:	HOYT STREET RAILYARD (FORMER)
Address:	NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	1080
Brown ID:	Brownfield Site - DEQ Tech Assistance

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Listed on the CRL/Inventory
FACA ID:	91852
Further Action:	0
Lat/Long (dms):	45 31 53.00 / -122 40 47.30
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	BB
Tax Lots:	Not reported
Size:	26 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	04/06/2016
Created Date:	02/07/1991
Decode For RegionID:	Northwest Region
Decode For BrownID:	Brownfield Site - DEQ Technical Assistance
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name:	Hoyt Street Property (HSP)

Hazardous Release:

Substance ID.:	121374
Haz Release ID:	379575
Qty Released:	unknown
Date Released:	unknown
Update Date:	11/14/2002
Update By:	Not reported
Substance Code:	50-32-8
Substance Name:	BENZO(a)PYRENE
Substance Abbrev.:	Not reported
Substance Category ID:	8476
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8476
Substance Category:	Semi-volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	318559
Sub Alias Name:	B(a)P
Substance Alias ID:	318560
Sub Alias Name:	BENZOPYRENE,3,4-
Substance Alias ID:	318561
Sub Alias Name:	BENZPYRENE,3,4-
Substance Alias ID:	318562

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Sub Alias Name:	BP
Comment ID:	302697
Release Code:	Data Sources
Release Comments:	Retec RI Report (October 1996); Anchor report (June 2004)
Decode for Relcomcd:	Data Sources
Comment ID:	305732
Release Code:	General Comments
Release Comments:	October 1998 sample collected from Test Pit EM-20E
Decode for Relcomcd:	General Comments
Sampling Result ID:	350816
Feature Id:	0
Hazard Release Id:	379575
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	10-15 ft bgs
Start Date:	10/05/1998
End Date:	10/05/1998
Min Concentration:	Not reported
Max Concentration:	8.60
Sample Comment:	up to 8.6 ppm
Last Update By:	KDANA
Update Date:	04/20/2016
Decode for MediumID:	Soil
Sampling Result ID:	338103
Feature Id:	Not reported
Hazard Release Id:	379575
Medium:	698
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	12/22/1987
End Date:	Not reported
Min Concentration:	Not reported
Max Concentration:	Not reported
Sample Comment:	1,000 ppb
Last Update By:	jmw
Update Date:	11/14/2002
Decode for MediumID:	Groundwater
Sampling Result ID:	338104
Feature Id:	Not reported
Hazard Release Id:	379575
Medium:	703
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	01/01/1996
End Date:	Not reported

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 20 ppm
Last Update By: jmw
Update Date: 11/14/2002
Decode for MediumID: Soil
Sampling Result ID: 338105
Feature Id: Not reported
Hazard Release Id: 379575
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/01/1992
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 130 ppb
Last Update By: jmw
Update Date: 11/14/2002
Decode for MediumID: Groundwater

Substance ID.: 121608
Haz Release ID: 385560
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Comment ID: 302698
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Decode for Relcomcd: Data Sources
Sampling Result ID: 337495
Feature Id: Not reported
Hazard Release Id: 385560
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 40 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil
Sampling Result ID: 338101
Feature Id: Not reported
Hazard Release Id: 385560
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 940 ppb
Last Update By: jmw
Update Date: 11/14/2002
Decode for MediumID: Groundwater

Substance ID.: 120883
Haz Release ID: 385561
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 108-88-3
Substance Name: TOLUENE
Substance Abbrev.: Not reported
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Substance Alias ID: 316466
Sub Alias Name: BENZENE,METHYL-
Substance Alias ID: 316467
Sub Alias Name: METHACIDE
Substance Alias ID: 316468
Sub Alias Name: METHYLBENZENE
Substance Alias ID: 316469
Sub Alias Name: METHYLBENZOL
Substance Alias ID: 316470
Sub Alias Name: PHENYLMETHANE
Substance Alias ID: 316471
Sub Alias Name: TOLUOL
Comment ID: 302695
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 346688
Feature Id: Not reported
Hazard Release Id: 385561
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 15 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil

Substance ID.: 120781
Haz Release ID: 385562
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Sub Alias Name: PHENYLETHANE
Comment ID: 302694
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 346835
Feature Id: Not reported
Hazard Release Id: 385562
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 110 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil
Sampling Result ID: 338102
Feature Id: Not reported
Hazard Release Id: 385562
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 500 ppb
Last Update By: jmw
Update Date: 11/14/2002
Decode for MediumID: Groundwater

Substance ID.: 121051
Haz Release ID: 385563
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 1330-20-7
Substance Name: XYLENEs
Substance Abbrev.: Not reported
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8526

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317017
Sub Alias Name: DIMETHYLBENZENEs
Substance Alias ID: 317018
Sub Alias Name: XYLOLs
Comment ID: 302696
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 346689
Feature Id: Not reported
Hazard Release Id: 385563
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 140 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil
Sampling Result ID: 338106
Feature Id: Not reported
Hazard Release Id: 385563
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 610 ppb
Last Update By: jmw
Update Date: 11/14/2002
Decode for MediumID: Groundwater

Substance ID.: 121639
Haz Release ID: 385564
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Substance Abbrev.:	Not reported
Substance Category ID:	8466
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8466
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319256
Sub Alias Name:	PB
Comment ID:	302699
Release Code:	Data Sources
Release Comments:	Hart Crowser report (10/22/90); Anchor report (June 2004)
Decode for Relcomcd:	Data Sources
Comment ID:	305737
Release Code:	General Comments
Release Comments:	September 1998 samples collected from Test Pit EM-15D
Decode for Relcomcd:	General Comments
Sampling Result ID:	346690
Feature Id:	Not reported
Hazard Release Id:	385564
Medium:	703
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	08/23/1990
End Date:	Not reported
Min Concentration:	Not reported
Max Concentration:	Not reported
Sample Comment:	2800 ppm
Last Update By:	ars
Update Date:	11/04/1994
Decode for MediumID:	Soil
Sampling Result ID:	346691
Feature Id:	Not reported
Hazard Release Id:	385564
Medium:	698
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	12/22/1987
End Date:	Not reported
Min Concentration:	Not reported
Max Concentration:	Not reported
Sample Comment:	12,200 ppb
Last Update By:	jmw
Update Date:	11/14/2002
Decode for MediumID:	Groundwater

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Sampling Result ID: 350819
Feature Id: 0
Hazard Release Id: 385564
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 09/29/1998
End Date: 09/29/1998
Min Concentration: Not reported
Max Concentration: 830.00
Sample Comment: up to 830 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil
Sampling Result ID: 350820
Feature Id: 0
Hazard Release Id: 385564
Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 09/29/1998
End Date: 09/29/1998
Min Concentration: Not reported
Max Concentration: .76
Sample Comment: up to 0.76 mg/l
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Leachate

Substance ID.: 121679
Haz Release ID: 385565
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 7440-66-6
Substance Name: ZINC
Substance Abbrev.: Not reported
Substance Alias ID: 319302
Sub Alias Name: ZN
Comment ID: 302701
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 346692
Feature Id: Not reported
Hazard Release Id: 385565
Medium: 703
Substance Abbrev.: Not reported

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1700 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil
Sampling Result ID: 345046
Feature Id: Not reported
Hazard Release Id: 385565
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 90 ppb
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Groundwater

Substance ID.: 122012
Haz Release ID: 385566
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 302702
Release Code: Data Sources
Release Comments: Mathes & Assoc. report (2/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 346693
Feature Id: Not reported

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Hazard Release Id: 385566
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 44000 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil

Substance ID.: 121673
Haz Release ID: 385661
Qty Released: unknown
Date Released: unknown
Update Date: 07/02/1991
Update By: Not reported
Substance Code: 7440-50-8
Substance Name: COPPER
Substance Abbrev.: Not reported
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319296
Sub Alias Name: CU
Comment ID: 302700
Release Code: Data Sources
Release Comments: Hart Crowser report (10/22/90)
Decode for Relcomcd: Data Sources
Sampling Result ID: 345069
Feature Id: Not reported
Hazard Release Id: 385661
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 20 ppb

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Groundwater
Sampling Result ID: 346836
Feature Id: Not reported
Hazard Release Id: 385661
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/23/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1800 ppm
Last Update By: ars
Update Date: 11/04/1994
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 388287
Qty Released: unknown
Date Released: unknown
Update Date: 04/20/2016
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 305730
Release Code: General Comments

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Release Comments: October 1998 sample collected from Test Pit EM-20E
Decode for Relcomcd: General Comments
Comment ID: 305731
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350815
Feature Id: 0
Hazard Release Id: 388287
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 10/05/1998
End Date: 10/05/1998
Min Concentration: Not reported
Max Concentration: 4.50
Sample Comment: up to 4.5 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 388288
Qty Released: unknown
Date Released: unknown
Update Date: 04/20/2016
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 305733
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Decode for Relcomcd: Data Sources
Comment ID: 305734
Release Code: General Comments
Release Comments: October 1998 sample collected from Test Pit EM-20E
Decode for Relcomcd: General Comments
Sampling Result ID: 350817
Feature Id: 0
Hazard Release Id: 388288
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 10/05/1998
End Date: 10/05/1998
Min Concentration: Not reported
Max Concentration: 2.70
Sample Comment: up to 2.7 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388289
Qty Released: unknown
Date Released: unknown
Update Date: 04/20/2016
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 305735
Release Code: General Comments
Release Comments: October 1998 sample collected from Test Pit EM-20E
Decode for Relcomcd: General Comments
Comment ID: 305736
Release Code: Data Sources

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350818
Feature Id: 0
Hazard Release Id: 388289
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-15 ft bgs
Start Date: 10/05/1998
End Date: 10/05/1998
Min Concentration: Not reported
Max Concentration: 4.80
Sample Comment: up to 4.8 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 388290
Qty Released: unknown
Date Released: unknown
Update Date: 04/20/2016
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305738
Release Code: General Comments
Release Comments: October 1998 sample collected from Test Pit EM-21B
Decode for Relcomcd: General Comments
Comment ID: 305739
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350821
Feature Id: 0
Hazard Release Id: 388290
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Sample Depth: 10-12 ft bgs
Start Date: 10/08/1998
End Date: 10/08/1998
Min Concentration: Not reported
Max Concentration: 12000.00
Sample Comment: up to 12,000 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388291
Qty Released: unknown
Date Released: unknown
Update Date: 04/20/2016
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305740
Release Code: General Comments
Release Comments: October 1998 sample collected from Test Pit EM-21B
Decode for Relcomcd: General Comments
Comment ID: 305741
Release Code: Data Sources
Release Comments: June 2004 Anchor Environmental Construction Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 350822
Feature Id: 0
Hazard Release Id: 388291
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-12 ft bgs
Start Date: 10/08/1998
End Date: 10/08/1998
Min Concentration: Not reported
Max Concentration: 16000.00
Sample Comment: 16,000 ppm
Last Update By: KDANA
Update Date: 04/20/2016
Decode for MediumID: Soil

Narrative:
NARR ID: 5731354

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Contamination
NARR Comments: (10/12/2021 KPD/SRP) Contamination was first noted at the Hoyt Street Yard in the 1970s, when petroleum product was observed at Tanner Creek's outfall to the Willamette River. A Subsurface Investigation of the train yard was conducted in 1987. By the end of 1990 a total of 78 test pits, 48 soil borings, and 28 monitoring wells had been installed at the site, and 16 Areas of Concern had been identified on and adjacent to the site. Eight additional monitoring wells were installed in 1992. DEQ added the <quot>Hoyt Street Train Yard<quot> to the Confirmed Release List in 1991. DEQ signed an Order on Consent with Burlington Northern Railroad (BNR) in August 1995. BNR agreed to conduct a Remedial Investigation and Feasibility Study for the site, along with Human Health and Environmental Risk Assessments and any Interim Removal Measures that might be necessary. DEQ approved a work plan for the RI/FS in December 1995. Initial soil sampling was completed that same month, and quarterly groundwater monitoring was conducted in 1996. The most-contaminated areas were the Historic Fueling Area (1911 to mid-1940s) with up to 29,000 ppm TPH in the soil and 18.6 ppb total dissolved PAHs in the groundwater, and the Second Fueling Area (mid-1940s to 1998) with up to 44,000 ppm TPH in the soil and free-product on the groundwater. A former Battery Service Area had over 400 ppm lead in the soil. The Remedial Investigation report and groundwater beneficial use determination were completed and approved in May 1997. The Risk Assessment was completed in April 1998, and the Feasibility Study was completed in September 1999. DEQ completed a Record of Decision (ROD) in December 2000. At the time the ROD was completed, soil and/or groundwater samples had been collected from 203 test pits, 89 borings, and 42 monitoring wells at the site.

NARR ID: 5731355
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Data Sources
NARR Comments: 1) Hart Crowser <quot>Preliminary Environmental Assessment<quot> [January 12, 1990]. 2) GRI <quot>Level 2 Environmental Investigation<quot> [June 3, 1993]. 3) DEQ <quot>Order on Consent<quot> [August 16, 1995]. 4) RETEC <quot>Remedial Investigation Report<quot> [October 9, 1996]. 5) DEQ <quot>Record of Decision<quot> [December 15, 2000]. 6) Anchor Environmental <quot>Environmental Construction Report: Phases 1 & 2<quot> [February 2001]. 7) DEQ <quot>Stipulation and Consent Decree<quot> [February 8, 2002]. 8) Anchor Environmental <quot>Soil Remedial Design and Remedial Action Workplan<quot> [June 2002]. 9) RETEC <quot>Groundwater Remedial Design and Remedial Action Workplan<quot> [June 6, 2002]. 10) DEQ <quot>Certification of Completion for Blocks 8, 10, 11 & 12<quot> [October 24, 2002]. 11) RETEC <quot>Final Groundwater Monitoring & Contingency Plan<quot> [January 29, 2004]. 12) RETEC <quot>Tanner Creek Sewer Investigation & Evaluation<quot>

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

[February 2, 2004]. 13) Anchor Environmental <quot>Environmental Construction Report: Phases 3 & 4<quot> [June 2004]. 14) DEQ <quot>Certification of Completion for Blocks 13, 16, 18 & 21<quot> [December 20, 2004]. 15) Anchor Environmental <quot>Phase 5 Environmental Soil Report<quot> [February 2006]. 16) RETEC <quot>Annual Groundwater Monitoring Report<quot> [March 28, 2007]. 17) DEQ <quot>Certification of Completion for Blocks 9, 14 & 19<quot> [April 9, 2008]. 18) AECOM <quot>2008-2009 Groundwater Monitoring Report<quot> [February 16, 2010]. 19) DEQ <quot>Explanation of Significant Difference<quot> [January 13, 2011]. 20) AECOM <quot>2010-2011 Groundwater Monitoring Report<quot> [December 8, 2011]. 21) Integral Consulting <quot>2012 Groundwater Monitoring Report<quot> [January 29, 2013]. 22) DEQ <quot>Certification of Completion for Blocks 18, 21, 22 & 25<quot> [June 13, 2014]. 23) Integral Consulting <quot>2013 Groundwater Monitoring Report<quot> [August 29, 2014]. 24) Integral Consulting <quot>Updated Groundwater Project Closeout Report<quot> [November 2014]. 25) DEQ <quot>Explanation of Significant Difference<quot> [November 9, 2015]. 26) DEQ <quot>Certification of Completion for Blocks 15 & 17<quot> [September 27, 2016]. 27) DEQ <quot>Certification of Completion for Block 27<quot> [April 24, 2018]. 28) DEQ <quot>Certification of Completion for Blocks 20 & 26<quot> [January 21, 2021]. 29) LUST file #26-92-0234. 30) UST Facility ID #3308. The following sub-projects were broken out and tracked separately during project construction: ECSI #1624 (Pearl Court) ECSI #4960 (Pearl Block) ECSI #5443 (The Fields) ECSI #5856 (Block 27) ECSI #5867 (Block 17) ECSI #5894 (Block 15) ECSI #6103 (SW Qtr of Block 26) ECSI #6116 (Block 20) ECSI #6162 (Block 29) ECSI #6352 (Block 23) RETEC. 1998. Hoyt Street Property RI/FS Risk Assessment. Prepared for the Burlington Northern and Santa Fe Railway Company, Seattle, Washington. The RETEC Group, Inc. RETEC. 1999. Final Feasibility Study, Hoyt Street Railyard. Prepared for the Burlington Northern and Santa Fe Railway Company, Seattle, Washington. The RETEC Group, Inc. RETEC. 2002a. 2001 Annual Progress Report- Hoyt Street Property Containment-Recovery System and LNAPL Excavation Completion Report. Prepared by The RETEC Group, Inc. for The Burlington Northern and Santa Fe Railway Company. Seattle, Washington. 2002.

NARR ID:	5755689
NARR Code:	General Site Description
Created By:	KDANA
Created Date:	06/10/2015
Updated By:	KDANA
Updated Date:	11/21/2018
Decode for NarcdID:	General Site Description

NARR Comments: In the early 1990s the project was referred to as the Hoyt Street Yard and was divided into two parcels, separated by the Lovejoy Viaduct. Parcel 1, south of Lovejoy, consisted of eight blocks bounded by Lovejoy, Hoyt, 10th & 12th and two blocks bounded by Lovejoy, Johnson, 9th & 10th. Parcel 2, north of Lovejoy, extended north between 9th & 12th to Front (Naito) and included additional blocks bounded by Front, Quimby, 12th & 13th and Front, Raleigh, 13th & 14th. Soil samples were collected from seven test pits in Parcel 1 in November 1990. Four additional test pits and six groundwater monitoring wells were installed in March-April 1993. The soil samples were analyzed for petroleum hydrocarbons and lead. Only a handful of elevated lead concentrations were detected (up to 270 ppm total lead

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

and 31 ug/L leachable lead). Groundwater samples were analyzed for PAHs; none were detected. The investigations covered the eight blocks bounded by Lovejoy, Hoyt, 10th & 12th. In early 1994 Burlington Northern Railroad (BNR) entered into negotiations with DEQ to investigate and clean up the Hoyt Street Yard. DEQ signed an Order on Consent with BNR in August 1995. The Consent Order covered all of Parcel 2 and two blocks from Parcel 1 (bounded by Lovejoy, Johnson, 9th & 10th) that were impacted by Areas of Concern. The new project site (ECSI #1080) was named <quot>Hoyt Street Railyard<quot>. In October 1994, during the negotiations with BNR, Parcel 1 was transferred to DEQ's Site Assessment program under a different ECSI file number (#1624). In July 1996, after the Consent Order had been signed, DEQ determined that the remaining eight blocks of Parcel 1 were insufficiently contaminated to require further investigation or cleanup. The ECSI file number (1624) was reassigned to the block bounded by Kearney, Johnson, 9th & 10th. Hoyt Street Properties subsequently numbered most of the new city blocks that would be created from the Hoyt Street Yard. Parcel 2 was divided into blocks numbered 8 to 30. Six of the original Parcel 1 blocks (bounded by Lovejoy, Irving, 10th & 12th) were numbered 2 to 7. For undetermined reasons, four of the Parcel 1 blocks were not numbered, and there is no Block 1.

NARR ID: 5731356
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: PAHs; lead, petroleum hydrocarbons, benzene, arsenic, and limited PCBs.

NARR ID: 5731357
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 03/26/2015
Decode for NarcdID: Site Location
NARR Comments: The majority of the site lies between NW 9th & 12th Avenues from Lovejoy Street north to Naito Parkway. The site also includes two blocks south of Lovejoy (between 9th & 10th south to Johnson), two blocks north of Quimby (between 12th & 13th north to Naito), and two blocks north of Raleigh (between 13th & 14th north to Naito).

NARR ID: 5731358
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of release unknown.

NARR ID: 5748834
NARR Code: Media Contamination

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Created By: JWAGGY
Created Date: 12/18/2006
Updated By: JWAGGY
Updated Date: 12/18/2006
Decode for NarcdID: Media Contamination
NARR Comments: Soil and groundwater contamination.

NARR ID: 5755620
NARR Code: Site Ownership
Created By: KDANA
Created Date: 03/26/2015
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Site Ownership
NARR Comments: The 26-acre Hoyt Street Railyard site was purchased around 1905 by the Portland & Seattle Railway Company (later known as the Spokane, Portland & Seattle Railway Company). SP&S was acquired by Burlington Northern Railroad in 1970. BNR transferred ownership of the site to a property management subsidiary, Glacier Park Company, in 1988 and continued to lease the site through the end of 1998. Glacier Park sold the site to Walker Road Partners in 1990. Prendergast & Associates served as the managing agent for Walker Road until 1994, when Walker Road sold the site to Hoyt Street Properties LLC. As redevelopment of the site has progressed, HSP has gradually transferred ownership of individual blocks to developers and homeowner associations.

NARR ID: 5731360
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The site was filled in with 10-20 feet of material in the 1880s. The fill was a mixture of sands, silts, clays and industrial debris (sawdust, bricks, slag, cinders, glass, etc.). Beneath the fill was 5-10 feet of sandy clay and/or silty clay (the original wetland soils) followed by layers of Pleistocene sand and gravel to about 90 ft bgs. Tanner Creek originally flowed through the area to the Willamette River. The creek was diverted into a brick-lined sewer beneath NW 9th Avenue. (The sewer, 7.5 feet high and 5 feet wide, was constructed from 1887 to 1890). Tanner Creek was subsequently redirected into a new concrete sewer beneath NW 10th Avenue. (The new sewer was 10 feet high and 6.5 feet wide, and constructed from 1916 to 1918). The old Tanner Creek Sewer was abandoned by filling with sand. The new Tanner Creek sewer line was later supplemented by a 27-inch sewer line beneath 9th Avenue. The groundwater flow direction at the Hoyt Street Railyard was originally to the north-northeast, toward the Willamette River. From 2006 to 2013, however, monitoring wells in the vicinity of Fields Park showed groundwater flowing southeast toward the Tanner Creek line. The change is likely due to development in the area, including the construction and dewatering of subsurface garages and the installation of impervious surfaces.

NARR ID: 5731362
NARR Code: Remedial Action

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Remedial Action
NARR Comments: (10/12/2021 KPD/SRP) Recovery of free-product petroleum atop the groundwater began in 1975 with the installation of four product recovery wells along NW 9th Avenue. The wells were pumped regularly until 1980. Operation of the system gradually decreased through the 1980s and two of the wells were abandoned. In 1992 two new recovery wells were installed along 9th Avenue. Treated groundwater was discharged to the Willamette River via the Tanner Creek sewer line under an NPDES permit. The product recovery system was incorporated into the August 1995 Order on Consent as an interim removal measure. Two additional recovery wells were added in 1996. The system recovered about 2,900 gallons of floating product from 1995 to 2001. In the fall of 2001 approximately 18,800 tons of impacted soils were excavated from the former fueling area and removed from the site, along with an additional 1,900 gallons of floating product. The recovery system was decommissioned in 2002. Two 15,000-gallon diesel USTs were decommissioned by removal from the site in 1988. (See UST Facility ID #3308). A 1,800-gallon lube oil UST was removed from the site in August 1992 along with soils contaminated with up to 9,000 ppm diesel. (See LUST file #26-92-0234). Hoyt Street Properties (HSP) began redevelopment of the railyard in 1998. A Consent Decree between DEQ, HSP, and Burlington Northern Santa Fe (BNSF) Railway to implement the December 2000 ROD was negotiated in 2001 and recorded in February 2002. HSP agreed to remediate the soils at the site. The remedial action consisted of the excavation and off-site disposal of contaminated soils; the capping of residual soil contamination with clean soil, buildings or pavement; and the filing of Licenses and Declarations of Restrictions to protect and maintain the caps. BNSF assumed responsibility for the groundwater contamination. Six long-term monitoring wells were installed around the [future] Fields Neighborhood Park in August 2006. The wells were sampled quarterly for PAHs in 2007, semi-annually in 2008 and 2009, and annually through 2013. No significant long-term groundwater concerns were identified. By June 2002, when an RD/RA Work Plan was finished, five interim remedial actions had been completed. Removal of a PAH Hot Spot was completed by August 2000. Soil remediation in Phases 1 & 2 (covering Blocks 8-13) was completed by February 2001. All USTs were removed from the site by April 2001. Lead-impacted soils were removed from a former railyard battery dump at 10th & Overton by February 2002, and LNAPL-impacted soils and groundwater were removed from Block 16 by April 2002. In October 2002 DEQ signed the first Certification of Completion, covering Blocks 8, 10, 11 & 12. Phases 3 & 4 of the cleanup (covering Blocks 14-22 and Block 25) were conducted from May 2003 through February 2004. Asbestos-containing insulation was removed from pipes within a steam tunnel system beneath parts of Blocks 15, 18 & 19 in August 2003. DEQ signed a second Certification of Completion in December 2004, covering Blocks 13, 16, 18 & 21. Phase 5 of the cleanup (covering Blocks 23 & 24 and Blocks 26-30) was completed in February 2006. A third Certification of Completion, covering Blocks 9, 14 & 19, was signed in April 2008. In January 2011 DEQ issued an Explanation of Significant Difference (ESD) to the 2000 ROD, decreasing the required cap thickness in park areas from 3 ft to 2 ft and the required cap thickness in play areas

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

from 5 ft to 3 ft. The changes were based on experience with actual park uses, and were applied to The Fields Neighborhood Park. A Certification of Completion for The Fields (Blocks 18, 21, 22 & 25) was signed in June 2014. A second ESD, extending the anticipated project completion deadline from 2015 to 2025, was issued in November 2015. A fifth Certification of Completion, covering Blocks 15 & 17, was signed in September 2016, followed by a Certification of Completion for Block 27 in April 2018. DEQ issued a No Further Action letter for the Pearl Court Apartments in July 2018 and a Certification of Completion in October 2018. The most recent Certification of Completion, covering Block 20 and the southwest quarter of Block 26, was issued in January 2021.

NARR ID: 5731364
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 09/07/2016
Decode for NarcdID: Health Threats
NARR Comments: The Hoyt Street Railyard is being redeveloped into a high-density urban residential neighborhood. Clean soil utility corridors, 50 feet wide and 5 feet deep, have been established beneath the streets. The portions of each developed city block not capped by buildings or pavement are capped by at least 2-3 feet of clean soils. Institutional controls (referred to as a <quot>License and Declaration of Restrictions<quot>) are being recorded on each city block prior to sale and redevelopment that require long-term maintenance of the cap. Fencing and/or other site security measures are to be installed and maintained for all areas where a cap is not yet constructed to restrict public access.

NARR ID: 5749753
NARR Code: Site History
Created By: MGREENB
Created Date: 09/27/2007
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Site History
NARR Comments: The area was originally low lying marshlands associated with Tanner Creek and the Willamette River. From 1880 to 1890 the area was filled in with 10-20 ft of soil and industrial debris (sawdust, bricks, slag, cinders, glass, etc.). Early industries included a sawmill and fueling facility at the north end of the site and a woolen mill. Tanner Creek was diverted into a subsurface pipe and incorporated into Portland's combined stormwater and sanitary sewer system. The Portland & Seattle Railway purchased the site around 1905 and constructed a railyard. The Hoyt Street Yard operated until the end of 1998. Fueling and maintenance activities were conducted in the northern portion of the railyard until the mid-1940s, when they were relocated to the east-central portion of the site. Recovery of free-product petroleum from the groundwater began in the second (relocated) fueling area in 1975. Hoyt Street Properties (HSP) acquired the railyard in 1994 and leased it back to the railroad through the end of 1998. In September 1997 HSP signed a Development Agreement with the City of Portland to redevelop the railyard as a high-density, mixed-use neighborhood, with parks along the Tanner

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Creek alignment and a Streetcar line running through the area. The development would be part of the city's River District, which extended north of Burnside Street between Interstate 405 on the west and north and the Willamette River on the east. HSP would begin development of the blocks south of Lovejoy Street by the end of the 1998 and the blocks north of Lovejoy starting in 1999, working from south to north. Around the year 2000, the portion of the River District between I-405 and NW Broadway became known as the Pearl District.

NARR ID: 5752621
NARR Code: 1922
Created By: RWELLS
Created Date: 12/15/2010
Updated By: KDANA
Updated Date: 10/13/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The Hoyt Street Yard was a 40-acre railroad switching and fueling yard that operated on the north side of Portland's downtown core from about 1905 to 1998. DEQ's Hoyt Street Railyard site is a 26-acre portion of the original yard, generally extending north from NW Lovejoy Street between 9th & 12th Avenues to Quimby Street, then following the south side of Naito Parkway to Interstate 405 and the Fremont Bridge. Soils and groundwater on the Hoyt Street Railyard site were contaminated with petroleum and petroleum constituents. (The remaining portion of the Hoyt Street Yard was largely uncontaminated). Hoyt Street Properties purchased the railyard for redevelopment in 1994, and Burlington Northern Railroad entered into negotiations with DEQ to investigate and clean up the yard at the same time. A Remedial Investigation report was completed in 1997, followed by a Risk Assessment in 1998 and a Feasibility Study in 1999. DEQ completed a Record of Decision for the site in December 2000. Hoyt Street Properties generally assumed responsibility for the contaminated soils, and Burlington Northern assumed responsibility for the groundwater. (Cleanup of the groundwater had begun back in 1975). The most-contaminated soils were largely removed by 2002. Residual contaminated soils in the area are being capped by buildings and pavement, and by 2-3 feet of clean soils in parks and other vegetated areas. All portions of the former Hoyt Street Yard south of Quimby Street have been redeveloped into a high-density urban residential neighborhood. Three-and-a-half city blocks north of Quimby and west of 11th Avenue remain to be developed. The Record of Decision (amended in 2011 and 2015) presumes development of the site will be completed by 2025.

Site Control:
Site Control #: 376
Control Number: 36
Begin Date: 12/05/2004
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: Jill Kiernan
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 03/19/2018
Site Comment: City blocks in the Hoyt Street Railyard site are required to be capped by a combination of buildings, pavement, and/or 2-3 feet of clean soils. Five feet of imported soils are required beneath roadways (to

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

provide clean utility corridors).

Site Control #: 497
Control Number: 3
Begin Date: 10/06/2003
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: N/A
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 03/19/2018
Site Comment: Each property within the Hoyt Street Railyard project site has a License and Declaration of Restrictions recorded on the deed requiring maintenance and annual monitoring of the engineered cap.

Administrative Action:
Action ID: 9464
Region: Northwestern Region
Complete Date: 09/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

Action ID: 9409
Region: Northwestern Region
Complete Date: 05/15/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Beneficial Water Use Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Headquarters
Complete Date: 10/01/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Action ID: 9494
Region: Northwestern Region
Complete Date: 12/15/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 11/01/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 11/22/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 05/23/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9491

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Region: Northwestern Region
Complete Date: 05/09/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9410
Region: Northwestern Region
Complete Date: 02/08/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Consent Decree
Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 11/09/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Headquarters
Complete Date: 12/28/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Complete Date: 01/24/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 06/28/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 02/07/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 02/01/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9448
Region: Headquarters
Complete Date: 09/20/1991

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Review for final listing
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 09/20/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 09/27/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 06/30/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 02/07/1991
Rank Value: 0

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 07/20/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 05/15/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 08/16/1995
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 04/02/1998
Rank Value: 0
Cleanup Flag: False

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 07/01/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9412
Region: Northwestern Region
Complete Date: 08/16/1995
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Consent Order
Further Action: 0
Comments: Not reported

Action ID: 9517
Region: Headquarters
Complete Date: 03/22/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SRS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 09/21/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: Not reported
Comments: Not reported

Action ID: 9450
Region: Northwestern Region
Complete Date: 11/30/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/06/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPERATION and MAINTENANCE
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/21/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132391
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1905 to 1998
Comments: Locomotive fueling and servicing; railroad switching and maintenance
Updated Date: 10/13/2021
Updated By: KDANA

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

Decode for OpstatID: Inactive
Operations SIC Id: 194844
SIC Code: 4011
Created By: Not reported
Created Date: 12/17/2002

Enginering Control:
Name: HOYT STREET RAILYARD (FORMER)
Address: NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 376
Site Id: 1080
Control Sequence #: 36
Begin Date: 12/05/2004
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: Jill Kiernan
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 03/19/2018
Group Sequence #: 9
Control Code: CPE
Control Description: Cap, engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: City blocks in the Hoyt Street Railyard site are required to be capped by a combination of buildings, pavement, and/or 2-3 feet of clean soils. Five feet of imported soils are required beneath roadways (to provide clean utility corridors).

Institutional Control:
Name: HOYT STREET RAILYARD (FORMER)
Address: NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 497
Site Id: 1080
Control Sequence #: 3
Begin Date: 10/06/2003
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: N/A
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 03/19/2018
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Each property within the Hoyt Street Railyard project site has a

HOYT STREET RAILYARD (FORMER) (Continued) **S111429244**

License and Declaration of Restrictions recorded on the deed requiring maintenance and annual monitoring of the engineered cap.

VCS:

Name:	HOYT STREET RAILYARD (FORMER)
Address:	NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1080
Facility Size:	26 acres
Action:	NEGOTIATIONS
Start Date:	01/25/1994
End Date:	11/09/1994
Program:	VCS
Latitude:	45.5314
Longitude:	-122.6798

Name:	HOYT STREET RAILYARD (FORMER)
Address:	NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1080
Facility Size:	26 acres
Action:	VCS Waiting List
Start Date:	07/26/1993
End Date:	01/24/1994
Program:	VCS
Latitude:	45.5314
Longitude:	-122.6798

OR BROWNFIELDS:

Name:	HOYT STREET RAILYARD (FORMER)
Address:	NORTH OF LOVEJOY BTWN NW 9TH & 12TH
City,State,Zip:	PORTLAND, OR 97209
Geolocation Id:	91852
Status:	REMEDIAL ACTION
Lat/Long:	45.5314 / -122.679

O45 **SAFEWAY STORE NO 2790** **RCRA-VSQG** **1016975749**
SSW **1303 NW LOVEJOY ST** **ORQ000034108**
1/8-1/4 **PORTLAND, OR 97209**
0.230 mi.
1216 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
43 ft.

RCRA-VSQG:

Date Form Received by Agency:		20151231
Handler Name:	SAFEWAY STORE NO 2790	
Handler Address:		1303 NW LOVEJOY ST
Handler City,State,Zip:		PORTLAND, OR 97209-2785
EPA ID:		ORQ000034108
Contact Name:		STORE MANAGER
Contact Address:		1303 NW LOVEJOY ST
Contact City,State,Zip:		PORTLAND, OR 97209-2785
Contact Telephone:		503-205-6746
Contact Fax:		Not reported
Contact Email:		S2790C90@SAFEWAY.COM
Contact Title:		Not reported
EPA Region:		10
Land Type:		Private

SAFEWAY STORE NO 2790 (Continued) **1016975749**

Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5918 STONERIDGE MALL RD
Mailing City,State,Zip:	PLEASANTON, CA 94588
Owner Name:	SAFEWAY INC
Owner Type:	Private
Operator Name:	SAFEWAY INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

SAFEWAY STORE NO 2790 (Continued) **1016975749**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150123
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFEWAY INC
Legal Status:	Private
Date Became Current:	20151231
Date Ended Current:	Not reported
Owner/Operator Address:	5918 STONERIDGE MALL RD
Owner/Operator City,State,Zip:	PLEASANTON, CA 94588
Owner/Operator Telephone:	925-467-3000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFEWAY INC
Legal Status:	Private
Date Became Current:	20151231
Date Ended Current:	Not reported
Owner/Operator Address:	5918 STONERIDGE MALL RD
Owner/Operator City,State,Zip:	PLEASANTON, CA 94588
Owner/Operator Telephone:	925-467-3000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFEWAY INC
Legal Status:	Private
Date Became Current:	20140619
Date Ended Current:	Not reported
Owner/Operator Address:	5918 STONERIDGE MALL RD
Owner/Operator City,State,Zip:	PLEASANTON, CA 94588
Owner/Operator Telephone:	925-467-3000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFEWAY INC
Legal Status:	Private
Date Became Current:	20140619
Date Ended Current:	Not reported
Owner/Operator Address:	5918 STONERIDGE MALL RD
Owner/Operator City,State,Zip:	PLEASANTON, CA 94588

SAFEWAY STORE NO 2790 (Continued) **1016975749**

Owner/Operator Telephone: 925-467-3000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140619
Handler Name: SAFEWAY STORE NO 2790
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20151231
Handler Name: SAFEWAY STORE NO 2790
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 445110
NAICS Description: SUPERMARKETS AND OTHER GROCERY RETAILERS (EXCEPT CONVENIENCE RETAILERS)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

P46 **IERULLI** **OR LUST** **U000432416**
West **1520 NW 17TH AVE** **OR UST** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.232 mi.
1223 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
44 ft.

LUST:
Name: IERULLI
Address: 1520 NW 17TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-04-1500

IERULLI (Continued) **U000432416**

Cleanup Received Date: 07/29/2004
Cleanup Start Date: 07/30/2004
Cleanup Complete Date: 12/06/2004
Decode for Region: North West Region

UST:
Name: IERULLI
Address: 1520 NW 17TH AVE
City: PORTLAND
Facility ID: 9562
Facility Telephone: (503) 892-6328
Permittee Name: PAULINE W. IERULLI, TRUSTEE
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

L47 **FLOOR FACTORS INC** **OR LUST** **S104328450**
WSW **1320 NW 17TH AVE** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.246 mi.
1299 ft. **Site 3 of 4 in cluster L**

Relative:
Higher

Actual:
48 ft.

LUST:
Name: FLOOR FACTORS INC.
Address: 1320 NW 17TH AVENUE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-07-0006
Cleanup Received Date: 01/03/2007
Cleanup Start Date: 01/03/2007
Cleanup Complete Date: 07/30/2008
Decode for Region: North West Region

N48 **9TH & LOVEJOY INFRASTRUCTURE PROJECT** **OR LUST** **U003909118**
SE **800 NW MARSHALL** **OR UST** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.249 mi.
1313 ft. **Site 2 of 2 in cluster N**

Relative:
Lower

Actual:
35 ft.

LUST:
Name: 9TH & LOVEJOY INFRASTRUCTURE PROJECT
Address: 800 NW MARSHALL
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-02-1285
Cleanup Received Date: 10/02/2002
Cleanup Start Date: 10/02/2002
Cleanup Complete Date: 05/15/2003
Decode for Region: North West Region

UST:
Name: 9TH & LOVEJOY INFRASTRUCTURE PROJECT
Address: 800 NW MARSHALL
City: PORTLAND

9TH & LOVEJOY INFRASTRUCTURE PROJECT (Continued) **U003909118**

Facility ID:	12166
Facility Telephone:	(503) 823-3200
Permittee Name:	DAVID OBERN, CONSTRUCTION MANAGER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	1
Number of Tanks:	1

L49 **HEATING OIL TANK** **OR LUST** **S117365510**
WSW **1638 NW OVERTON ST** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.250 mi.
1319 ft. **Site 4 of 4 in cluster L**

Relative: **Higher**
Actual: **49 ft.**

LUST:

Name:	HEATING OIL TANK
Address:	1638 NW OVERTON ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-14-1236
Cleanup Received Date:	09/10/2014
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**10/28/2014**
Decode for Region:	**North West Region**

M50 **PORTLAND DEVELOPMENT (1ST TANK)** **OR LUST** **S105711253**
SSE **1036 NW 9TH** **N/A**
1/8-1/4 **PORTLAND, OR 97209**
0.250 mi.
1320 ft. **Site 2 of 2 in cluster M**

Relative: **Higher**
Actual: **36 ft.**

LUST:

Name:	PORTLAND DEVELOPMENT (1ST TANK)
Address:	1036 NW 9TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-02-1284
Cleanup Received Date:	09/25/2002
Cleanup Start Date:	09/25/2002
Cleanup Complete Date:	**05/15/2003**
Decode for Region:	**North West Region**

Q51 **RAPID TRANSFER CO. (FORMER)** **OR ECSI** **S115330275**
NW **2030 NW 17TH AVE.** **OR VCP** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.253 mi.
1337 ft. **Site 1 of 2 in cluster Q**

Relative: **Lower**
Actual: **35 ft.**

ECSI:

Name:	RAPID TRANSFER CO. (FORMER)
Address:	2030 NW 17TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5870
Brown ID:	0
Study Area:	False

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

Region ID:	Not reported
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	23884
Further Action:	0
Lat/Long (dms):	45 32 13.20 / -122 41 16.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	28
Qtr Section:	DC
Tax Lots:	100 & 200
Size:	2.10 acres
NPL:	False
Orphan:	False
Updated By:	MFRISTE
Update Date:	04/18/2019
Created Date:	12/23/2013
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5755064
NARR Code:	Contamination
Created By:	JSCHATZ
Created Date:	03/25/2014
Updated By:	JSCHATZ
Updated Date:	04/12/2016
Decode for NarcdID:	Contamination
NARR Comments:	The site formerly had USTs that were decommissioned in 1991. Primarily diesel and heavy oil range TPH, along with some associated volatile organic compounds associated with the UST release were detected in soil. During a Phase II ESA perfomed in January 2013, soil samples collected from the vicinity of the former UST contained gasoline, diesel and heavy oil, selected VOCs and PAHs. Also detected in the samples were low levels of PBCs. PAHs were detected in soil at concentrations exceeding urban residential RBCs for the direct contact pathway, although at a depth greater than three feet bgs. PCBs were detected in at concentrations below urban residential RBCs for direct contact and at depths exceeding three feet bgs. (JKS 3-25-14)

NARR ID:	5754966
NARR Code:	Data Sources
Created By:	KDANA
Created Date:	12/23/2013
Updated By:	KDANA
Updated Date:	12/23/2013
Decode for NarcdID:	Data Sources
NARR Comments:	1) LUST file #26-91-0269. 2) UST Facility ID #8667.

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

NARR ID: 5757228
NARR Code: Remedial Action
Created By: JSCHATZ
Created Date: 07/31/2018
Updated By: JSCHATZ
Updated Date: 07/31/2018
Decode for NarcdID: Remedial Action
NARR Comments: Between August and December 2016, soil was removed to depths ranging from 15 to 20 feet bgs across the majority of the site. A total of 32,155 tons of soil was removed from the site and disposed at Riverbend Landfill in McMinnville. Composite soil samples were collected from the floor and sidewalls of the excavation. PAHs were detected in the samples but not at concentrations above the most stringent RBCs. PCBs were detected in only two of 19 confirmation samples. Arsenic was detected in the confirmation samples but not above natural background levels for the area.

NARR ID: 5756070
NARR Code: 1922
Created By: JSCHATZ
Created Date: 04/12/2016
Updated By: JSCHATZ
Updated Date: 07/31/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: DEQ issued non-binding opinion letters regarding the likelihood of requiring further action at the site in 2014. This was possible because the owner at that time was not seeking a No Further Action determination. In February 2016, the new property owner entered the VCP. The plan is to construct two 6-story commercial buildings with sub-grade parking. As a result, the top 19 feet of soil over most of the property will be removed. The owner's consultant (GeoDesign) submitted a Contaminated Media Management Plan describing soil management and confirmation sampling procedures. Due to the location of the site in the Portland Harbor, some consideration of source control will be necessary. Based on consultation with the City of Portland and DEQ's Stormwater Coordinator, the stormwater pathway can be excluded. Some evaluation of the groundwater pathway will be required before the site can be considered for No Further Action status (JKS 5-11-16). In August 2016 Park Office LLC installed eight monitoring wells around the perimeter of the site property for dewatering purpses. The wells were constructed of 4-inch PVC and screened from 20 to 25 feet bgs. Between August and December 2016, soil was removed to depths ranging from 15 to 20 feet bgs across the majority of the site. A total of 32,155 tons of soil was removed from the site and disposed at Riverbend Landfill in McMinnville. Composite soil samples were collected from the floor and sidewalls of the excavation. PAHs were detected in the samples but not at concentrations above the most stringent RBCs. PCBs were detected in only two of 19 confirmation samples. Arsenic was detected in the confirmation samples but not above natural background levels for the area. In March 2017 samples were collected from the wells on the down-gradient side of the property. Diesel and heavy oil range hydrodarbons were not detcted in wells MW-1 through MW-4. Based on the limited occurrence of PCBs, VOCs and PAHs in soil and groundwater prior to the mass removal, groundwater samples from the wells were not analyzed for these compounds. Arsenic (total and dissolved) were detected in the groundwater samples at levels consisent with natural

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

background. The final Source Control Evaluation for the site was submitted by GeoDesign in February 2018. Draft Source Control Decision was prepared in June 2018 and distributed to EPA and its partners. EPA agreed the site was a low priority and as a result, did not perform a formal review of the SCD. In June 2018, The Five Tribes provided comment on the draft SCD. DEQ addressed the comments in a written response and made accompanying edits to the SCD. No comments were received from the Yakama Nation. The SCD was finalized on July 2, 2018. Formal remedy selection was not necessary, owing to the widespread construction related excavation work associated with construction. Low levels of soil contamination remain in the excavation footprint but are covered with buildings and associated hardscaping. Storm water will be managed in accordance with the City of Portland's Stormwater Manual. Site qualifies for site-wide NFA.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/23/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/23/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 01/13/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/23/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 04/17/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/16/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

Action ID: 9519
Region: Northwestern Region
Complete Date: 05/11/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/18/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 02/12/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/11/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9524
Region: Northwestern Region
Complete Date: 06/21/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/26/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCE
Further Action: 0
Comments: Not reported

Action ID: 9523
Region: 0
Complete Date: 07/02/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/02/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: SCD
Further Action: 0
Comments: Not reported

Action ID: 9443

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

Region: 0
Complete Date: 07/31/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

VCS:
Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: VCS Waiting List
Start Date: 12/20/2013
End Date: 01/13/2014
Program: VCS
Latitude: 45.537
Longitude: -122.6879

Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: VCS Waiting List
Start Date: 02/17/2016
End Date: 05/11/2016
Program: VCS
Latitude: 45.537
Longitude: -122.6879

Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 07/02/2018
End Date: 07/31/2018
Program: VCP
Latitude: 45.537
Longitude: -122.6879

Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: Source Control Evaluation
Start Date: 02/13/2018

RAPID TRANSFER CO. (FORMER) (Continued) **S115330275**

End Date: 06/21/2018
Program: VCP
Latitude: 45.537
Longitude: -122.6879

Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: REMOVAL
Start Date: 05/11/2016
End Date: 02/12/2018
Program: VCP
Latitude: 45.537
Longitude: -122.6879

Name: RAPID TRANSFER CO. (FORMER)
Address: 2030 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5870
Facility Size: 2.10 acres
Action: SITE EVALUATION
Start Date: 01/14/2014
End Date: 04/17/2014
Program: VCP
Latitude: 45.537
Longitude: -122.6879

Q52 **RAPID TRANSFER CO. - TRUCK YARD** **OR LUST** **S119015580**
NW **2030 NW 17TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.253 mi.
1337 ft. **Site 2 of 2 in cluster Q**

Relative: LUST:
Lower
Name: RAPID TRANSFER CO. - TRUCK YARD
Actual: Address: 2030 NW 17TH AVE
35 ft. City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-91-0269
Cleanup Received Date: 07/23/1991
Cleanup Start Date: 07/22/1991
Cleanup Complete Date: 08/26/1991
Decode for Region: North West Region

O53 **HEATING OIL TANK** **OR LUST** **S108246802**
SSW **1035 NW 14TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.254 mi.
1340 ft. **Site 2 of 2 in cluster O**

Relative: LUST:
Higher
Name: HEATING OIL TANK
Actual: Address: 1035 NW 14TH AVE
44 ft. City,State,Zip: PORTLAND, OR 97209

HEATING OIL TANK (Continued) **S108246802**

Region:	North Western Region
Facility ID:	26-06-1331
Cleanup Received Date:	07/24/2006
Cleanup Start Date:	07/24/2006
Cleanup Complete Date:	**12/01/2006**
Decode for Region:	**North West Region**

R54 **PREMIER GEAR** **OR ECSI** **S123666797**
WNW **1715 NW 17TH AVE.** **OR ENG CONTROLS** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR INST CONTROL**
0.257 mi. **OR VCP**
1359 ft. **Site 1 of 2 in cluster R**

Relative: **Higher**

Actual: **42 ft.**

ECSI:

Name:	PREMIER GEAR
Address:	1715 NW 17TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	6329
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	831
Investigation:	Suspect
FACA ID:	160316
Further Action:	0
Lat/Long (dms):	45 32 7.00 / -122 41 21.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	28
Qtr Section:	DC
Tax Lots:	1300
Size:	0.91 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	11/10/2020
Created Date:	03/12/2019
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121990
Haz Release ID:	388529
Qty Released:	unknown
Date Released:	unknown
Update Date:	07/28/2020
Update By:	KDANA
Substance Code:	ECD201
Substance Name:	HEATING - FUEL OIL

PREMIER GEAR (Continued) **S123666797**

Substance Abbrev.: Not reported
Substance Category ID: 8538
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8538
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306010
Release Code: Data Sources
Release Comments: December 1995 UST Decommissioning Report
Decode for Relcomcd: Data Sources
Comment ID: 306011
Release Code: General Comments
Release Comments: Highest soil concentration detected on east end of tank
Decode for Relcomcd: General Comments
Sampling Result ID: 351139
Feature Id: 0
Hazard Release Id: 388529
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6 ft bgs
Start Date: 10/03/1995
End Date: 10/03/1995
Min Concentration: Not reported
Max Concentration: 4050.00
Sample Comment: up to 4,050 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil
Sampling Result ID: 351140
Feature Id: 0
Hazard Release Id: 388529
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 23 ft bgs
Start Date: 11/10/1995
End Date: 11/10/1995
Min Concentration: Not reported
Max Concentration: 2900.00
Sample Comment: up to 2,900 ppb
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Groundwater

Substance ID.: 121664

PREMIER GEAR (Continued) **S123666797**

Haz Release ID: 388530
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 306012
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306013
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB7
Decode for Relcomcd: General Comments
Comment ID: 306034
Release Code: Media Contamination Footnote
Release Comments: The average concentration of arsenic in soils beneath the building is 15.38 ppm
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351141
Feature Id: 0
Hazard Release Id: 388530
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 54.90
Sample Comment: up to 54.9 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388531
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020

PREMIER GEAR (Continued) **S123666797**

Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 306014
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306015
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB11
Decode for Relcomcd: General Comments
Comment ID: 306035
Release Code: Media Contamination Footnote
Release Comments: The average concentration of lead in soils beneath the building is 836.8 ppm
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351142
Feature Id: 0
Hazard Release Id: 388531
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 2710.00
Sample Comment: up to 2,710 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 388532
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported

PREMIER GEAR (Continued) **S123666797**

Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 306016
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306017
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351143
Feature Id: 0
Hazard Release Id: 388532
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 150.00
Sample Comment: up to 150 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 388533
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA

PREMIER GEAR (Continued) **S123666797**

Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 306018
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306019
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351144
Feature Id: 0
Hazard Release Id: 388533
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 97.00
Sample Comment: up to 97 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 388534
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported

PREMIER GEAR (Continued) **S123666797**

Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 306020
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306021
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351145
Feature Id: 0
Hazard Release Id: 388534
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 58.00
Sample Comment: up to 58 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 388535
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493

PREMIER GEAR (Continued) **S123666797**

Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 306022
Release Code: Data Sources
Release Comments: March 2019 Environmental Health and Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306023
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351146
Feature Id: 0
Hazard Release Id: 388535
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 51.00
Sample Comment: up to 51 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121196
Haz Release ID: 388536
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 207-08-9
Substance Name: BENZO(k)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported

PREMIER GEAR (Continued) **S123666797**

Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317400
Sub Alias Name: B(k)F
Substance Alias ID: 317401
Sub Alias Name: BENZOFLUORANTHENE,11,12-
Comment ID: 306024
Release Code: Data Sources
Release Comments: March 2019 Environmental Health and Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306025
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351147
Feature Id: 0
Hazard Release Id: 388536
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 75.00
Sample Comment: up to 75 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121210
Haz Release ID: 388537
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440

PREMIER GEAR (Continued) **S123666797**

Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Comment ID: 306026
Release Code: Data Sources
Release Comments: March 2019 Environmental Health and Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306027
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351148
Feature Id: 0
Hazard Release Id: 388537
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 100.00
Sample Comment: up to 100 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 388538
Qty Released: unknown
Date Released: unknown
Update Date: 07/28/2020
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 306028
Release Code: Data Sources

PREMIER GEAR (Continued) **S123666797**

Release Comments: March 2019 Environmental Health and Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306029
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB1
Decode for Relcomcd: General Comments
Sampling Result ID: 351149
Feature Id: 0
Hazard Release Id: 388538
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 12.00
Sample Comment: up to 12 ppm
Last Update By: KDANA
Update Date: 07/28/2020
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 388539
Qty Released: unknown
Date Released: unknown
Update Date: 07/29/2020
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306030
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306031
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB6
Decode for Relcomcd: General Comments
Sampling Result ID: 351150
Feature Id: 0
Hazard Release Id: 388539
Medium: 703
Substance Abbrev.: 0

PREMIER GEAR (Continued) **S123666797**

Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 8200.00
Sample Comment: up to 8,200 ppm
Last Update By: KDANA
Update Date: 07/29/2020
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 388540
Qty Released: unknown
Date Released: unknown
Update Date: 07/29/2020
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306032
Release Code: Data Sources
Release Comments: March 2019 Environmental Health & Safety Plan
Decode for Relcomcd: Data Sources
Comment ID: 306033
Release Code: General Comments
Release Comments: Highest concentration detected in boring SB6
Decode for Relcomcd: General Comments
Sampling Result ID: 351151
Feature Id: 0
Hazard Release Id: 388540
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 2.8 ft bgs
Start Date: 12/26/2018
End Date: 12/26/2018
Min Concentration: Not reported
Max Concentration: 8900.00
Sample Comment: up to 8,900 ppm
Last Update By: KDANA

PREMIER GEAR (Continued) **S123666797**

Update Date: 07/29/2020
Decode for MediumID: Soil

Narrative:
NARR ID: 5757953
NARR Code: Contamination
Created By: KDANA
Created Date: 07/28/2020
Updated By: KDANA
Updated Date: 11/10/2020
Decode for NarcdID: Contamination
NARR Comments: (11/10/2020 KPD/ICP) Twenty borings were advanced through the building floor in December 2018 prior to remodeling. A soil sample was collected from each boring at a depth of about three feet below ground surface and analyzed for a variety of contaminants. High concentrations of arsenic and lead were detected across the site, and one boring showed very high concentrations of PAHs. Diesel and heavy oils were also detected. In June 2019, composite samples from the upper three feet of soils were collected in eight of the boring locations to characterize the soils for excavation and disposal. The very high PAH concentrations from the first round of sampling were not replicated, but the other results were generally confirmed.

NARR ID: 5757951
NARR Code: Data Sources
Created By: KDANA
Created Date: 07/28/2020
Updated By: KDANA
Updated Date: 07/29/2020
Decode for NarcdID: Data Sources
NARR Comments: 1) Dames & Moore <quot>Underground Storage Tank Decommissioning and Soil Investigation<quot> [December 13, 1995]. 2) FACS <quot>Environmental Health and Safety Plan<quot> [March 5, 2019]. 3) FACS <quot>Soil Management Plan<quot> [March 19, 2019]. 4) Succeed <quot>Project Closeout Report<quot> [April 14, 2020]. 5) LUST file #26-95-0261.

NARR ID: 5757434
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 04/09/2019
Updated By: KDANA
Updated Date: 07/29/2020
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Diesel, oil, arsenic, lead, and polycyclic aromatic hydrocarbons (PAHs)

NARR ID: 5757433
NARR Code: Site Location
Created By: KDANA
Created Date: 04/09/2019
Updated By: KDANA
Updated Date: 04/09/2019
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Thurman Street to the north, NW Savier Street to the south, NW 17th Avenue to the east, and NW 18th Avenue to the west. An elevated ramp from the Fremont Bridge to US Highway 30 flies over the southwest corner of the site. The

PREMIER GEAR (Continued) **S123666797**

site address has also been given as 1700 NW Thurman Street.

NARR ID: 5757435
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 04/09/2019
Updated By: KDANA
Updated Date: 07/28/2020
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site are generally silts to a depth of about 20 ft bgs, and are underlain by sands to a maximum explored depth of 28 ft bgs. The depth to groundwater is approximately 20-25 ft bgs. The Willamette River is approximately 2,000 feet northeast of the site.

NARR ID: 5757952
NARR Code: Remedial Action
Created By: KDANA
Created Date: 07/28/2020
Updated By: KDANA
Updated Date: 11/10/2020
Decode for NarcdID: Remedial Action
NARR Comments: (11/10/2020 KPD/ICP) A 1,700-gallon heating oil tank was removed from beneath the sidewalk on the north side of the building in October 1995, along with about 8.6 tons of petroleum contaminated soils (PCS). Not all of the contamination could be removed without undermining the adjacent street and building. An estimated 625 cubic yards of PCS remains beneath the tank, extending from 17-25 feet bgs. DEQ issued a pocket-in-place No Further Action determination for the decommissioning in August 1996. See LUST file #26-95-0261 for more information. In June 2019, excavations began in select areas beneath the building to install new footing foundations, utility lines, etc. In June and July 2019, 265 tons of soil were excavated and shipped to the Hillsboro Landfill for disposal. An additional 296 tons of soil were removed from November 2019 through January 2020, followed by a final 58 tons in April 2020. Average concentrations of arsenic and lead in soils beneath the building exceed DEQ's risk-based concentrations for construction workers. A deed restriction was recorded on the property in October 2020 requiring any work beneath the building foundation to follow a DEQ-approved Soil Management Plan (SMP) and Health & Safety Plan (HASP).

NARR ID: 5757954
NARR Code: Site History
Created By: KDANA
Created Date: 07/29/2020
Updated By: KDANA
Updated Date: 07/29/2020
Decode for NarcdID: Site History
NARR Comments: The site, covering a full city block, is developed with a 42,100 square foot commercial building. The northern portion of the building was constructed in 1944. The southern portion of the building was constructed sometime between 1970 and 1990. The building was historically used for metal fabrication (cutting, pressing, stamping). In 2019-20, the building was remodeled for office space.

NARR ID: 5757957
NARR Code: 1922

PREMIER GEAR (Continued) **S123666797**

Created By: KDANA
Created Date: 08/03/2020
Updated By: KDANA
Updated Date: 11/05/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The Premier Gear site covers a full city block immediately north of the Fremont Bridge off-ramp to U.S. Highway 30. In 1995, a 1,700-gallon heating oil tank was removed from beneath the sidewalk on the north side of the building, along with 8.5 tons of petroleum-contaminated soils (PCS). An additional 625 cubic yards of PCS remains beneath the former tank, extending from 17 to 25 feet below ground surface. In 2018, soil samples were collected beneath the building foundation prior to a remodeling project. High concentrations of arsenic and lead were detected across the site, along with diesel and oil. From 2019 to 2020, 619 tons of soils were removed during installation of new foundation footings and utility lines. However, average concentrations of arsenic and lead below the building remain a concern for future construction workers. A deed restriction was recorded on the property in October 2020 requiring any work beneath the building foundation to follow a Soil Management Plan and a Health & Safety Plan.

Site Control:
Site Control #: 1304
Control Number: 35
Begin Date: 10/23/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 11/05/2020
Site Comment: Except upon prior written approval from DEQ, Owner may not conduct or allow operations or conditions on the Property or use of the Property in any way that might penetrate the building foundation or jeopardize the foundation's protective function as an engineering control that prevents exposure to contaminated soil, including without limitation any excavation, drilling, fracturing, or cracking. Any work beneath the building foundation must follow a site-specific Soil Management Plan (SMP) and Health & Safety Plan (HASP) approved in writing by DEQ.

Site Control #: 1303
Control Number: 3
Begin Date: 10/23/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 11/05/2020
Site Comment: Recorded by Multnomah County. Requires work beneath the building foundation to follow a Soil Management Plan (SMP) and Health & Safety Plan (HASP).

Administrative Action:
Action ID: 9511
Region: Northwestern Region
Complete Date: 04/14/2020

PREMIER GEAR (Continued) **S123666797**

Rank Value: Not reported
Cleanup Flag: True
Created Date: 08/03/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 04/06/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 11/10/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 10/23/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 03/12/2019
Rank Value: Not reported

PREMIER GEAR (Continued) **S123666797**

Cleanup Flag: False
Created Date: 03/12/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 03/25/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/12/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135969
Operation Status: Inactive
Common Name: Premier Gear & Machine Works
Yrs of Operation: unknown
Comments: Manufacturer of gears and cogs
Updated Date: 04/09/2019
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199395
SIC Code: 3541
Created By: KDANA
Created Date: 04/09/2019

Enginering Control:
Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1304
Site Id: 6329
Control Sequence #: 35
Begin Date: 10/23/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 11/05/2020
Group Sequence #: 9
Control Code: BD
Control Description: Building(s)
FK Type Code: 2
Group Code: SB

PREMIER GEAR (Continued) **S123666797**

Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Except upon prior written approval from DEQ, Owner may not conduct or allow operations or conditions on the Property or use of the Property in any way that might penetrate the building foundation or jeopardize the foundation's protective function as an engineering control that prevents exposure to contaminated soil, including without limitation any excavation, drilling, fracturing, or cracking. Any work beneath the building foundation must follow a site-specific Soil Management Plan (SMP) and Health & Safety Plan (HASP) approved in writing by DEQ.

Institutional Control:
Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1303
Site Id: 6329
Control Sequence #: 3
Begin Date: 10/23/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: K. Dana, DEQ
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 11/05/2020
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Recorded by Multnomah County. Requires work beneath the building foundation to follow a Soil Management Plan (SMP) and Health & Safety Plan (HASP).

VCS:
Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6329
Facility Size: 0.91 acres
Action: SITE INVESTIGATION
Start Date: 03/25/2019
End Date: 04/14/2020
Program: ICP
Latitude: 45.5353
Longitude: -122.6892

Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6329
Facility Size: 0.91 acres

PREMIER GEAR (Continued) **S123666797**

Action: No Further Action (Conditional)
Start Date: 11/10/2020
End Date: 11/10/2020
Program: ICP
Latitude: 45.5353
Longitude: -122.6892

Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6329
Facility Size: 0.91 acres
Action: VCS Waiting List
Start Date: 03/12/2019
End Date: 03/25/2019
Program: VCP
Latitude: 45.5353
Longitude: -122.6892

Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6329
Facility Size: 0.91 acres
Action: REMOVAL
Start Date: 06/26/2019
End Date: 04/06/2020
Program: ICP
Latitude: 45.5353
Longitude: -122.6892

Name: PREMIER GEAR
Address: 1715 NW 17TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6329
Facility Size: 0.91 acres
Action: Institutional Control
Start Date: 10/23/2020
End Date: 10/23/2020
Program: ICP
Latitude: 45.5353
Longitude: -122.6892

S55 **LONG BUILDING** **OR LUST** **S103422430**
SW **1602 NW NORTHRUP** **N/A**
1/4-1/2 **PORTLAND, OR 97205**
0.263 mi.
1388 ft. **Site 1 of 4 in cluster S**

Relative: **Higher**

Actual: **51 ft.**

LUST:
Name: LONG BUILDING
Address: 1602 NW NORTHRUP
City,State,Zip: PORTLAND, OR 97205
Region: North Western Region
Facility ID: 26-98-0968
Cleanup Received Date: 11/12/1998
Cleanup Start Date: 11/12/1998
Cleanup Complete Date: 03/23/2000

LONG BUILDING (Continued) **S103422430**

Decode for Region: **North West Region**

T56 **WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE** **OR ECSI** **S107543475**
ESE **1118 NW FRONT AVE.** **OR VCP** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.268 mi.
1417 ft. **Site 1 of 3 in cluster T**

Relative:
Lower

Actual:
29 ft.

ECSI:

Name:	WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE
Address:	1118 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	4535
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	90808
Further Action:	0
Lat/Long (dms):	45 31 57.70 / -122 40 43.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	BB
Tax Lots:	300 & 400
Size:	2.4 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	02/13/2007
Created Date:	11/22/2005
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported
Alias Name:	Portland Waterfront Condominiums
Alias Name:	River Queen Redevelopment Project

Hazardous Release:

Substance ID.:	121462
Haz Release ID:	386709
Qty Released:	Unknown
Date Released:	Unknown
Update Date:	12/14/2005
Update By:	SFORTUN
Substance Code:	56-55-3
Substance Name:	BENZO(a)ANTHRACENE
Substance Abbrev.:	Not reported
Substance Category ID:	8475
Substance Category:	Semi-volatiles
Category Level:	Not reported

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Sampling Result ID: 348431
Feature Id: 0
Hazard Release Id: 386709
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0 - 20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .85
Sample Comment: 2 ppm in composite GC-Z, T.L. 400; 0.85 ppm in soil composite 11, T.L. 400; 0.77 ppm in composite GC-AA, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 386710
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 305131
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC is 1.45 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348432
Feature Id: 0
Hazard Release Id: 386710
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-15 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2.40
Sample Comment: 2.4 ppm in soil composite GS-Z, Tax Lot 400; 1.0 ppm in soil composite 11, T.L. 400; 0.88 in GC-AA, T.L. 400; 0.76 ppm in GC-U, T.L. 400; 0.73 ppm in GS-6, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348969
Feature Id: 0
Hazard Release Id: 386710
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.081 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121374

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Haz Release ID: 386711
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305132
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 13.4
Decode for Relcomcd: General Comments
Sampling Result ID: 348433
Feature Id: 0
Hazard Release Id: 386711
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .77
Sample Comment:).77 ppm in composite GC-AA, T.L. 400; 0.59 ppm in soil composite 11, T.L. 400; 0.55 ppm in GS-6, T.L. 400; 0.48 ppm in GC-U, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348970
Feature Id: 0
Hazard Release Id: 386711
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.058 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 386712
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Sampling Result ID: 348434
Feature Id: 0
Hazard Release Id: 386712
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .21
Sample Comment: 0.21 in soil composite GS-Z, Tax Lot 400; 0.085 ppm in composite GC-AA, T.L. 400; 0.061 ppm in soil grab sample GS-6, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Substance ID.: 121176
Haz Release ID: 386713
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Sampling Result ID: 348435
Feature Id: 0
Hazard Release Id: 386713
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .63
Sample Comment: 0.63 in soil composite GS-Z, Tax Lot 400; 0.43 in soil composite GC-AA, T.L. 400; 0.24 ppm in GS-6, T.L. 400; 0.22 ppm in composite 11, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil

Substance ID.: 121673
Haz Release ID: 386714
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7440-50-8
Substance Name: COPPER
Substance Abbrev.: Not reported
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Created Date: 12/17/2002
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319296
Sub Alias Name: CU
Sampling Result ID: 348436
Feature Id: 0
Hazard Release Id: 386714
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-10 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 84.00
Sample Comment: Up to 84 ppm in soil composite at 0-10 feet bgs on Tax Lot 400. Up to 73.2 ppm in soil grab sample at 8 feet bgs on Tax Lot 300.
Last Update By: SFORTUN
Update Date: 12/14/2005
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 386715
Qty Released: Unknown
Date Released: unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305138
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 128 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348437
Feature Id: 0
Hazard Release Id: 386715
Medium: 703

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 432.00
Sample Comment: 432 ppm in soil composite GC-67, Tax Lot 300; 410 ppm in soil composite GC-63, T.L. 300; 260 ppm, soil composite, 0-10 feet bgs, T. L. 400; 182 ppm, soil composite Z, T.L. 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348979
Feature Id: 0
Hazard Release Id: 386715
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 128 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348980
Feature Id: 0
Hazard Release Id: 386715
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 47.4 ppm (BURM02)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121643
Haz Release ID: 386716
Qty Released: Unknown
Date Released: Unknown

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7439-97-6
Substance Name: MERCURY
Substance Abbrev.: Not reported
Substance Category ID: 8467
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8467
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319260
Sub Alias Name: HG
Substance Alias ID: 319261
Sub Alias Name: HYDRARGYRUM
Substance Alias ID: 319262
Sub Alias Name: LIQUID SILVER
Substance Alias ID: 319263
Sub Alias Name: QUICKSILVER
Comment ID: 305137
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 1.1 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348438
Feature Id: 0
Hazard Release Id: 386716
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: .48
Sample Comment: 0.48 ppm in soil grab sample at 15 feet bgs on Tax Lot 400; 0.35 ppm in soil composite GC-138, T.L. 300; 0.28 ppm in soil composite GC-140, T.L. 300; 0.26 ppm at GC-67, T.L. 300.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348978
Feature Id: 0
Hazard Release Id: 386716
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: <0.2 ppm (BURM01 and 02)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121679
Haz Release ID: 386717
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7440-66-6
Substance Name: ZINC
Substance Abbrev.: Not reported
Substance Alias ID: 319302
Sub Alias Name: ZN
Comment ID: 305136
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 460 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348439
Feature Id: 0
Hazard Release Id: 386717
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-20 feet bgs
Start Date: 10/27/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 399.00
Sample Comment: 399 ppm in soils composite at GC-U, Tax Lot 400; 331 ppm at GC-132, T.L. 300; 196 ppm at GC-67, T.L. 300; 160 ppm in soil composite 11, on Tax Lot 400.
Last Update By: SFORTUN
Update Date: 03/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348976
Feature Id: 0
Hazard Release Id: 386717
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Max Concentration: Not reported
Sample Comment: 108 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348977
Feature Id: 0
Hazard Release Id: 386717
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 71.3 ppm (BURM02)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 386718
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 348440
Feature Id: 0
Hazard Release Id: 386718
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-20 feet bgs
Start Date: 10/20/2005
End Date: Not reported

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Min Concentration: Not reported
Max Concentration: 16.00
Sample Comment: Up to 16 ppm detected in deeper soils removed from the site and transported to Scappoose for disposal.
Last Update By: SFORTUN
Update Date: 12/14/2005
Decode for MediumID: Soil

Substance ID.: 121665
Haz Release ID: 386719
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7440-39-3
Substance Name: BARIUM
Substance Abbrev.: Not reported
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8458
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319287
Sub Alias Name: BA
Sampling Result ID: 348441
Feature Id: 0
Hazard Release Id: 386719
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-20 feet bgs
Start Date: 10/20/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 201.00
Sample Comment: Up to 201 ppb detected in deeper soils excavated from the site and sent to Scappoose for disposal.
Last Update By: SFORTUN
Update Date: 12/14/2005
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 386720
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 348442
Feature Id: 0
Hazard Release Id: 386720
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-20 feet bgs
Start Date: 10/20/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 170.00
Sample Comment: Up to 170 ppm diesel fuel range petroleum (as mineral spirits) detected in deeper soils excavated from the site and sent to Scappoose for disposal.
Last Update By: SFORTUN
Update Date: 12/14/2005
Decode for MediumID: Soil

Substance ID.: 121988
Haz Release ID: 386721
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: ECD198
Substance Name: OIL - LUBRICATING
Substance Abbrev.: Not reported
Substance Category ID: 8531
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8531
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 348443
Feature Id: 0
Hazard Release Id: 386721
Medium: 703
Substance Abbrev.: 0
Unit Code: 7

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 10-20 feet bgs
Start Date: 07/08/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 905.00
Sample Comment: Up to 840 ppm heavy petroleum (as motor oil) detected in deeper soils excavated from the site and sent to Scappoose for disposal.
Last Update By: SFORTUN
Update Date: 02/22/2006
Decode for MediumID: Soil

Substance ID.: 121671
Haz Release ID: 386722
Qty Released: Unknown
Date Released: Unknown
Update Date: 12/14/2005
Update By: SFORTUN
Substance Code: 7440-47-3
Substance Name: CHROMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318145
Sub Alias Name: CHROMIUM, INORGANIC
Substance Alias ID: 319294
Sub Alias Name: CHROMIUM, TOTAL
Sampling Result ID: 348444
Feature Id: 0
Hazard Release Id: 386722
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 04/25/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 20.00
Sample Comment: Up to 20 ppb detected in shallow groundwater on Tax Lot 300 (B-2).
Last Update By: SFORTUN
Update Date: 02/22/2006
Decode for MediumID: Groundwater

Substance ID.: 121210

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Haz Release ID: 386941
Qty Released: unknown
Date Released: unknown
Update Date: 11/07/2006
Update By: CHARMAN
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440
Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Comment ID: 305133
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 1.29 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348971
Feature Id: 0
Hazard Release Id: 386941
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.067 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121195
Haz Release ID: 386942
Qty Released: unknown
Date Released: unknown
Update Date: 11/07/2006
Update By: CHARMAN
Substance Code: 206-44-0
Substance Name: FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8491

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8491
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317398
Sub Alias Name: BENZACENAPHTHENE,1,2-
Substance Alias ID: 317399
Sub Alias Name: BENZO(jk)FLUORENE
Comment ID: 305134
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 2.23 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348972
Feature Id: 0
Hazard Release Id: 386942
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.086 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348973
Feature Id: 0
Hazard Release Id: 386942
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.062 ppm (BURM02)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil

Substance ID.: 121019
Haz Release ID: 386943
Qty Released: unknown

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Date Released: unknown
Update Date: 11/07/2006
Update By: CHARMAN
Substance Code: 129-00-0
Substance Name: PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8497
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8497
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316950
Sub Alias Name: BENZO(def)PHENANTHRENE
Comment ID: 305135
Release Code: General Comments
Release Comments: JSCS freshwater sediment PEC - 1.52 ppm
Decode for Relcomcd: General Comments
Sampling Result ID: 348974
Feature Id: 0
Hazard Release Id: 386943
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.086 ppm (BURM01)
Last Update By: CHARMAN
Update Date: 11/07/2006
Decode for MediumID: Soil
Sampling Result ID: 348975
Feature Id: 0
Hazard Release Id: 386943
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1 ft
Start Date: 08/15/2006
End Date: 08/15/2006
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0.065 ppm (BURM02)
Last Update By: CHARMAN
Update Date: 11/07/2006

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Decode for MediumID: Soil

Narrative:

NARR ID: 5747509
NARR Code: Site Contacts
Created By: JWAGGY
Created Date: 11/22/2005
Updated By: SFORTUN
Updated Date: 02/22/2006
Decode for NarcdID: Site Contacts
NARR Comments: Owners: Tax Lots 300 & 400 (site address: 1118 NW Front Avenue, 97209) (mailing address: 13625 NE Jarrett Street, 97230): Naito Properties LLC Attn: Justin B. Denton 1600 Pioneer Tower 888 SW 5th Avenue Portland, OR 97204-2099 Registered Agent: TT Administrative Services, LLC 1600 Pioneer Tower 888 SW 5th Avenue Portland, OR 97204-2099 Contact: Lynn Green, Senior Environmental Scientist EVREN Northwest, Inc. P.O. Box 80747 Portland, OR 97280-1747 503-452-5561 Fax: 503-452-7669 lynng@evren-nw.com Contact: Cless Woodward, Project Manager Westech Construction, Inc. 503-777-7000 Fax: 503-774-3191 cless@wtc-inc.com Contact: J. Mark Morford Stoel Rives LLP 900 SW 5th Avenue, Suite 2600 Portland, OR 97204 503-294-9259 503-224-3380 Fax: 503-220-2480 jmmorford@stoel.com Interested Party: Waterfront Pearl Limited Partnership 1111 W. Hastings Street, Suite 200 Vancouver, BC V6E 2J3 604-687-2816 Registered Agent Margaret B. Kushner 900 SW 5th Avenue, Suite 2600 Portland, OR 97204 Interested Party: Pemcor Waterfront Pearl, Inc. Attn: Paul Mayer 1111 W. Hastings Street, Suite 200 Vancouver, BC V6E 2J3 604-687-2816 Registered Agent Margaret B. Kushner 900 SW 5th Avenue, Suite 2600 Portland, OR 97204 Interested Party: Pemcor Investment Corporation (development partner) Pemcor Development Corp. 1111 W. Hastings Street, Suite 200 Vancouver, BC V6E 2J3 604-687-2816 Interested Party: GranCorp, Inc. (development partner) GranCorp Holdings LLC 600 University Street, #1014 Seattle, WA 98101 206-625-9019 Fax: 206-625-9120 michael@grancorp.com Interested Party: Otak, Inc., architects Attn: Judd Janes, Scott Shumaker 17355 SW Boones Ferry Rd. Lake Oswego, OR 97035-5217 503-635-3618 Fax: 503-635-5395 Registered Agent Jonathan A. Bennett 851 SW 6th Avenue, Suite 1500 Portland, OR 97204 Interested Party: Naito Properties LLC, developer Attn: Kirsten Cowden 1600 Pioneer Tower 888 SW 5th Avenue Portland, OR 97204-2099 503-517-4358 Interested Party: Tonkon Torp, LLP Attn: Joe Voboril 1600 Pioneer Tower 888 SW 5th Avenue Portland, OR 97204-2099 503-221-1440 Fax: 503-274-8779 Interested Party: Vickers/Nelson & Associates Attn: Doug Nelson 1420 NW Lovejoy Street, Suite 416 Portland, OR 97209 503-233-7008 Interested Party: Hoffman Construction Attn: Jon Dooley 805 SW Broadway, Suite 2100 Portland, OR 97205 503-228-2565

NARR ID: 5747567
NARR Code: Contamination
Created By: SFORTUN
Created Date: 12/14/2005
Updated By: CHARMAN
Updated Date: 11/07/2006
Decode for NarcdID: Contamination
NARR Comments: Petroleum, PAHs, and metals have been detected in subsurface soils at the site. Soils being excavated from Tax Lot 400 are contaminated with concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene that exceed EPA Region IX Residential Soil Preliminary

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Remediation Goals (PRGs). Benzo(a)pyrene has been detected in subsurface soils at concentrations that exceed the Industrial PRG. Subsurface soils have also contained chromium, copper, lead, mercury, and zinc above DEQ Ecological Risk Assessment screening values for plants, birds, invertebrates, and/or mammals. Deeper soils initially excavated from the site and hauled to Scappoose for disposal contained arsenic, barium, and leachable lead above DEQ Ecological Risk Assessment screening values for plants, birds, and/or freshwater aquatic life. Excavated soils are currently being sent to Hillsboro Landfill for disposal, although debris-free soils will be sent to a Tigard Sand and Gravel pit for disposal as clean soils. (11/7/06 CWH/SAP) Between November 7, 2005 and April 7, 2006 approximately 74,000 tons of soil, primarily historic fill materials, were delivered to the Hillsboro Landfill. Between March 14 to April 4, 2006 soils were sampled from the excavation walls and bottom to determine residual concentrations of PAHs and metals (Pb, Hg, Zn). The confirmation samples from the excavation were developed into exposure point concentrations and evaluated for risk to human health in a residential setting for the contaminants of potential concern - benzo(a)pyrene and dibenz(a,h)anthracene. No unacceptable risks to human health were calculated. The most likely ecological exposure pathway was determined to be surface runoff from the site to the Willamette River. To evaluate this pathway, two soil samples were taken from the remaining embankment along the river in August of 2006. These soil samples were evaluated for PAHs and the metals lead, mercury and zinc. All concentrations were below freshwater sediment Probable Effects Concentrations (PECs) for benthic invertebrates establish as part of the Joint Source Control Strategy (JSCS) for Portland Harbor (see http://www.deq.state.or.us/nwr/PortlandHarbor/JSCS.htm) - except for one sample (BURM01) that measured lead at 128 ppm - equal to the sediment PEC for lead.

NARR ID: 5747568
NARR Code: Disposals
Created By: SFORTUN
Created Date: 12/14/2005
Updated By: SFORTUN
Updated Date: 12/14/2005
Decode for NarcdID: Disposals
NARR Comments: Soils that were first excavated from the site (Tax Lot 400) were initially sent to Scappoose for disposal as clean soils. Those soils have now been removed to Hillsboro Landfill for disposal. Site soils are currently being visually examined for debris as they are being excavated. Soils with significant wood debris are being sent to Hillsboro Landfill for disposal. Soils with no visible wood debris will be sent to a Tigard Sand and Gravel pit for burial as clean soils.

NARR ID: 5747564
NARR Code: Data Sources
Created By: SFORTUN
Created Date: 12/12/2005
Updated By: CHARMAN
Updated Date: 01/16/2007
Decode for NarcdID: Data Sources
NARR Comments: Site Screening, Albers Mill Property, NW Front Avenue, prepared for

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Norcrest China Co., by GRI, November 11, 1988. Preliminary Site Assessment, River Queen Restaurant Site, 1300 NW Front, prepared for Norcrest China Co., by GRI, November 8, 1991. Seismic and Preliminary Foundation Consultation, River Queen Site, Portland, Oregon; GRI (3761 Seismic and Foundation Consultation); November 22, 2002. Phase I Environmental Site Assessment, River Queen Redevelopment Project, 1300 NW Naito Parkway, prepared for Tonkon Torp, LLC, by GRI, February 5, 2003. Phase II Environmental Site Assessment, River Queen Project, 1300 NW Naito Parkway, prepared for Tonkon Torp LLP, by GRI, August 12, 2004. Supplemental Groundwater Test Results, fax memo to Otak, Inc., by GRI, February 3, 2005. Geotechnical Investigation, Waterfront Pearl Project, NW Naito Parkway, Portland, Oregon; GRI (4186 Geotechnical Rpt); February 24, 2005. Laboratory Test Results, Wy-East Enviromental Sciences, Inc. (fax); May 4, 2005. Additional Water and Soil Environmental Test Results, fax memo to Otak, Inc., by Geotechnical & Environmental Consultants (GRI), May 5, 2005. Responses to Site Development Checklist, Waterfront Pearl Project, Application No. 05-111751-EXC-01-CO; GRI (Project No. 4186); May 20, 2005. Action Plan Amending Erosion Sediment Control Plan, Waterfront Pearl Site, 1300 NW Naito Parkway, Portland, Oregon (DRAFT); EVREN Northwest, Inc.; January 6, 2006. Work Plan for Site Closure, Waterfront Pearl Site, 1300 NW Naito Parkway, Portland, Oregon; EVREN Northwest, Inc.; March 7, 2006. Technical Memorandum: Scappoose Fill Sites Soil Removal, Waterfront Pearl Condominium Project; EVREN Northwest, Inc.; March 14, 2006. Technical Memorandum, Confirmation Soil Sampling, Waterfront Pearl Development, 1300 NW Naito Parkway, Portland, Oregon; April 23, 2006; EVREN Northwest, Inc. Risk Assessment, Waterfront Pearl Development, 1300 NW Naito Parkway, Portland, Oregon (ECSI Site ID No. 4535); May 1, 2006; EVREN Northwest, Inc. Response to ODEQ Comments, Waterfront Pearl Development, 1300 NW Naito Parkway, Portland, Oregon; September 14, 2006; EVREN Northwest, Inc.

NARR ID: 5747569
NARR Code: General Site Description
Created By: SFORTUN
Created Date: 12/14/2005
Updated By: SFORTUN
Updated Date: 12/14/2005
Decode for NarcdID: General Site Description
NARR Comments: The site is predominantly former blacktop-paved parking lots and the location of the former Liberty Ship Memorial Park. The Albers Mill Building, an historic flour mill that was renovated as an office building, occupies the southeastern end of the site. The vacant portion of the site are currently being redeveloped for construction of hi-rise condominiums.

NARR ID: 5747577
NARR Code: Hazardous Substance/Waste Types
Created By: SFORTUN
Created Date: 12/14/2005
Updated By: SFORTUN
Updated Date: 12/14/2005
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum (motor oil; mineral spirits), PAHs, and metals (chromium, copper, lead, mercury, zinc) in site soils. Copper in site groundwater.

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

NARR ID: 5747506
NARR Code: Site Location
Created By: JWAGGY
Created Date: 11/22/2005
Updated By: SFORTUN
Updated Date: 02/22/2006
Decode for NarcdID: Site Location
NARR Comments: 1118 NW Front Avenue (Tax Lots 300 and 400) Located in Northwest Portland, between NW Front Avenue / NW Naito Parkway on the southwest, and the Willamette River on the northeast. A parking lot for the Albers Mill Building is located along the site's southeastern boundary; the Union Station Horse Barn site (ECSI #2407) is located along the site's northwestern boundary. The Union Station Agricultural Marketing Center site (also known as Union Station Parcel A North) (ECSI #1962) is located directly across NW Front Avenue / NW Naito Parkway from the site. Tax Lots: 1N1E34BB 300 and 1N1E34BB 400 Tax Lot 300 = 1.84 acres Tax Lot 400 = 0.56 acres

NARR ID: 5747507
NARR Code: Pathways Other Hazards
Created By: JWAGGY
Created Date: 11/22/2005
Updated By: SFORTUN
Updated Date: 02/22/2006
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Local environmental attributes and special receptors of note: This site is located within DEQ's definition of a Vulnerable Area (VA) for surface waters, (water quality limited for toxics and Oregon Health Division Health Advisory, mercury in fish tissue). This site also lies directly across the river from a high poverty area. The site was formerly a paved parking area, as well as the location of the former Liberty Ship Memorial Park, but is now being redeveloped for condominiums. Fill was placed on the site at some time in the past. Soils being excavated from Tax Lots 400 are contaminated with concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene that exceed EPA Region IX Residential Soil Preliminary Remediation Goals (PRGs). Benzo(a)pyrene has been detected in subsurface soils at concentrations that exceed the Industrial PRG. Excavated soils are currently being sent to Hillsboro Landfill for disposal, but debris-free soils will sent to a Tigard Sand and Gravel pit for disposal as clean soils. Subsurface contaminants could represent a potential threat to construction workers or utility trench workers. Contaminated groundwater could discharge to the Willamette River, which is migratory habitat for Threatened and Endangered salmonids.

NARR ID: 5747508
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 11/22/2005
Updated By: CHARMAN
Updated Date: 11/07/2006
Decode for NarcdID: Remedial Action
NARR Comments: (11/22/05 SMF/SAP) Site recommended for site screening; contamination discovered during site construction. (11/7/06 CWH/SAP) Waterfront Pearl Limited Partnership entered into DEQ's Voluntary Cleanup Program via a letter agreement dated January 17, 2006. Removal of

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

soils, primarily historic fill, occurred between November of 2005 and April of 2006. Approximately 74,000 tons of the fill material was removed and taken to the Hillsboro Landfill. Confirmation sampling of excavation bottom and accessible sidewalls took place near the end of the excavation activity in March and April of 2006. Confirmation samples were evaluated for PAHs and several metals. Contaminants of Potential Concern (COPCs) for human health in a residential setting, were determined to be benzo(a)pyrene and dibenz(a,h)anthracene, based on frequency of detection in confirmation samples. A quantitative risk assessment (RA) showed that there were no unacceptable risks to human health. Ecological risks were evaluated by comparing two surface soils samples, acquired from the near shore area of the site in August of 2006, to freshwater sediment Probable Effects Concentrations (PECs) for benthic invertebrates developed as part of the Joint Source Control Strategy for Portland Harbor. The soil samples were tested for PAHs, lead, mercury and zinc. Lead was detected in one sample at 128 ppm, which was equal to the PEC, but all other concentrations were below the PEC levels. Based on the Human Health Risk Assessment and screening-level ecological risk assessment, DEQ has determined that no further action is necessary. DEQ will go out for public comment on December 1, 2006.

NARR ID: 5747578
NARR Code: Site History
Created By: SFORTUN
Created Date: 12/14/2005
Updated By: SFORTUN
Updated Date: 02/22/2006
Decode for NarcdID: Site History
NARR Comments: The site is predominantly former blacktop-paved parking lots and the location of the former Liberty Ship Memorial Park, where concrete hulls from scrapped liberty ships were buried sometime after World War II. Much of the site was filled at sometime in the past. Waterfront warehousing and a riverfront pier occupied the site, historically. An abandoned railroad spur is located along the southwestern edge of the site. The vacant portion of the site are currently being redeveloped for construction of hi-rise condominiums.

Administrative Action:
Action ID: 9440
Region: Northwestern Region
Complete Date: 01/16/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 04/04/2006
Rank Value: Not reported
Cleanup Flag: False

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Created Date: 11/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 05/01/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 04/07/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 01/16/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/09/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 11/22/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/22/2005

WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE (Continued) **S107543475**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 11/22/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/22/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: High
Comments: Not reported

Operations:
Operation Id: 135134
Operation Status: Active
Common Name: Waterfront Pearl Condominiums
Yrs of Operation: 2005
Comments: Construction activities begun October 2005
Updated Date: 11/23/2005
Updated By: SFORTUN
Decode for OpstatID: Active

VCS:
Name: WATERFRONT PEARL CONDOMINIUMS CONSTRUCTION SITE
Address: 1118 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 4535
Facility Size: 2.4 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 01/16/2007
End Date: 01/16/2007
Program: VCS
Latitude: 45.5327
Longitude: -122.6786

S57 **HEATING OIL TANK** **OR LUST** **S109051946**
SW **1121 NW 16TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.271 mi.
1432 ft. **Site 2 of 4 in cluster S**

Relative:
Higher

Actual:
52 ft.

LUST:
Name: HEATING OIL TANK
Address: 1121 NW 16TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-08-0097
Cleanup Received Date: 01/30/2008

HEATING OIL TANK (Continued) **S109051946**

Cleanup Start Date: Not reported
Cleanup Complete Date: 02/25/2008
Decode for Region: North West Region

58
SE
1/4-1/2
0.272 mi.
1434 ft.

Relative:
Lower

Actual:
34 ft.

STATION PLACE REDEVELOPMENT
1020 & 1150 NW 9TH AVE.
PORTLAND, OR 97209

OR CRL **S105614268**
OR ECSI **N/A**
OR ENG CONTROLS
OR INST CONTROL
OR VCP
OR BROWNFIELDS

CRL:
Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
Facility ID: 2407
Location ID: 91857
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.5306 / -122.6797

ECSI:
Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 2407
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: Not reported
Legislatve ID: 831
Investigation: Listed on the CRL/Inventory
FACA ID: 91857
Further Action: 0
Lat/Long (dms): 45 31 50.20 / -122 40 46.90
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: 1301-04, 1307, 1308
Size: 6.3 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 04/01/2021
Created Date: 09/08/1999
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: River District Parcel 1

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Alias Name: Portland Development Commission (PDC)
Alias Name: Union Station - Horse Barn
Alias Name: Mounted Patrol Unit

Hazardous Release:
Substance ID.: 121608
Haz Release ID: 378788
Qty Released: unknown
Date Released: unknown
Update Date: 02/07/2019
Update By: KDANA
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Comment ID: 305902
Release Code: Data Sources
Release Comments: DEQ Record of Decision (May 2003) and AMEC Remedial Action Closure Report for Lot 1 (Oct. 2005).
Decode for Relcomcd: Data Sources
Comment ID: 305903
Release Code: General Comments
Release Comments: Benzene present in shallow groundwater at concentrations up to 2,500 ppb and in deep groundwater up to 12,100 ppb.
Decode for Relcomcd: General Comments
Sampling Result ID: 351050
Feature Id: 0
Hazard Release Id: 378788
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1.50

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Sample Comment: up to 1.5 ppm
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Soil
Sampling Result ID: 351051
Feature Id: 0
Hazard Release Id: 378788
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2500.00
Sample Comment: up to 2,500 ppb
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Groundwater
Sampling Result ID: 351052
Feature Id: 0
Hazard Release Id: 378788
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 12100.00
Sample Comment: up to 12,100 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121982
Haz Release ID: 382641
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 339516
Feature Id: 0
Hazard Release Id: 382641
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2400.00
Sample Comment: up to 2,400 ppm
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Soil
Sampling Result ID: 339517
Feature Id: 0
Hazard Release Id: 382641
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3700.00
Sample Comment: up to 3,700 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121374
Haz Release ID: 382642
Qty Released: unknown
Date Released: unknown
Update Date: 02/07/2019
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 305904
Release Code: Data Sources
Release Comments: DEQ Record of Decision (May 2003) and AMEC Interim Remedial Action Closure Report (August 2003).
Decode for Relcomcd: Data Sources
Sampling Result ID: 339518
Feature Id: 0
Hazard Release Id: 382642
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 11/05/2002
End Date: 11/05/2002
Min Concentration: Not reported
Max Concentration: 1600.00
Sample Comment: up to 1,600 ppm
Last Update By: KDANA
Update Date: 04/05/2021
Decode for MediumID: Soil
Sampling Result ID: 339519
Feature Id: 0
Hazard Release Id: 382642
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 140.00
Sample Comment: up to 140 ppb
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Groundwater

Substance ID.: 121664
Haz Release ID: 388442
Qty Released: unknown
Date Released: unknown
Update Date: 02/07/2019

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Comment ID: 305901
Release Code: Data Sources
Release Comments: DEQ Record of Decision (May 2003)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351048
Feature Id: 0
Hazard Release Id: 388442
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 28.60
Sample Comment: up to 28.6 ppm
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Soil
Sampling Result ID: 351049
Feature Id: 0
Hazard Release Id: 388442
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 534.00
Sample Comment: up to 534 ppb
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Groundwater

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Substance ID.: 121639
Haz Release ID: 388443
Qty Released: unknown
Date Released: unknown
Update Date: 02/07/2019
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305905
Release Code: Data Sources
Release Comments: DEQ Record of Decision (May 2003)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351053
Feature Id: 0
Hazard Release Id: 388443
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 949.00
Sample Comment: up to 949 ppm
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Soil
Sampling Result ID: 351054
Feature Id: 0
Hazard Release Id: 388443
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 900.00

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Sample Comment: up to 900 ppb
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Groundwater

Substance ID.: 121868
Haz Release ID: 388444
Qty Released: unknown
Date Released: unknown
Update Date: 02/07/2019
Update By: KDANA
Substance Code: 91-20-3
Substance Name: NAPHTHALENE
Substance Abbrev.: Not reported
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317793
Sub Alias Name: MOTH BALLS
Substance Alias ID: 317794
Sub Alias Name: NAPHTHENE
Substance Alias ID: 317795
Sub Alias Name: TAR CAMPHOR
Comment ID: 305906
Release Code: Data Sources
Release Comments: DEQ Record of Decision (May 2003) and AMEC Remedial Action Closure Report for Lot 1 (Oct. 2005).
Decode for Relcomcd: Data Sources
Comment ID: 305907
Release Code: General Comments
Release Comments: Naphthalene present in shallow groundwater at concentrations up to 4,400 ppb, and in deep groundwater up to 7,580 ppb.
Decode for Relcomcd: General Comments
Sampling Result ID: 351055
Feature Id: 0
Hazard Release Id: 388444
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1730.00
Sample Comment: up to 1,730 ppm
Last Update By: KDANA
Update Date: 02/07/2019

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Decode for MediumID: Soil
Sampling Result ID: 351056
Feature Id: 0
Hazard Release Id: 388444
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 4400.00
Sample Comment: up to 4,400 ppb
Last Update By: KDANA
Update Date: 02/07/2019
Decode for MediumID: Groundwater
Sampling Result ID: 351057
Feature Id: 0
Hazard Release Id: 388444
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 7580.00
Sample Comment: up to 7,580 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121462
Haz Release ID: 388563
Qty Released: unknown
Date Released: unknown
Update Date: 04/05/2021
Update By: KDANA
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Comment ID: 306069
Release Code: Data Sources
Release Comments: AMEC Interim Remedial Action Closure Report (Aug. 2003) and Remedial Action Closure Report (Oct. 2005).
Decode for Relcomcd: Data Sources
Sampling Result ID: 351182
Feature Id: 0
Hazard Release Id: 388563
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 11/05/2002
End Date: 11/05/2002
Min Concentration: Not reported
Max Concentration: 1000.00
Sample Comment: up to 1,000 ppm
Last Update By: KDANA
Update Date: 04/05/2021
Decode for MediumID: Soil
Sampling Result ID: 351186
Feature Id: 0
Hazard Release Id: 388563
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 78.80
Sample Comment: up to 78.8 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121192

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Haz Release ID: 388564
Qty Released: unknown
Date Released: unknown
Update Date: 04/05/2021
Update By: KDANA
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Comment ID: 306070
Release Code: Data Sources
Release Comments: AMEC Interim Remedial Action Closure Report (Aug. 2003) and Remedial Action Closure Report (Oct. 2005).
Decode for Relcomcd: Data Sources
Sampling Result ID: 351183
Feature Id: 0
Hazard Release Id: 388564
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 11/05/2002
End Date: 11/05/2002
Min Concentration: Not reported
Max Concentration: 790.00
Sample Comment: up to 790 ppm
Last Update By: KDANA
Update Date: 04/05/2021
Decode for MediumID: Soil
Sampling Result ID: 351187
Feature Id: 0
Hazard Release Id: 388564
Medium: 698
Substance Abbrev.: 0
Unit Code: 8

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 29.20
Sample Comment: up to 29.2 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121415
Haz Release ID: 388565
Qty Released: unknown
Date Released: unknown
Update Date: 04/05/2021
Update By: KDANA
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Comment ID: 306071
Release Code: Data Sources
Release Comments: AMEC Interim Remedial Action Closure Report (Aug. 2003) and Remedial Action Closure Report (Oct. 2005).
Decode for Relcomcd: Data Sources
Sampling Result ID: 351184
Feature Id: 0
Hazard Release Id: 388565
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 11/05/2002
End Date: 11/05/2002

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Min Concentration: Not reported
Max Concentration: 320.00
Sample Comment: up to 320 ppm
Last Update By: KDANA
Update Date: 04/05/2021
Decode for MediumID: Soil
Sampling Result ID: 351188
Feature Id: 0
Hazard Release Id: 388565
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 25.20
Sample Comment: up to 25.2 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121176
Haz Release ID: 388566
Qty Released: unknown
Date Released: unknown
Update Date: 04/05/2021
Update By: KDANA
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Comment ID: 306072
Release Code: Data Sources
Release Comments: AMEC Interim Remedial Action Closure Report (Aug. 2003) and Remedial Action Closure Report (Oct. 2005).
Decode for Relcomcd: Data Sources
Sampling Result ID: 351185
Feature Id: 0
Hazard Release Id: 388566
Medium: 703

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 11/05/2002
End Date: 11/05/2002
Min Concentration: Not reported
Max Concentration: 870.00
Sample Comment: up to 870 ppm
Last Update By: KDANA
Update Date: 04/05/2021
Decode for MediumID: Soil
Sampling Result ID: 351192
Feature Id: 0
Hazard Release Id: 388566
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 25.20
Sample Comment: up to 25.2 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121210
Haz Release ID: 388567
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Comment ID: 306073
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351189
Feature Id: 0
Hazard Release Id: 388567
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 83.10
Sample Comment: up to 83.1 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121196
Haz Release ID: 388568
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 207-08-9
Substance Name: BENZO(k)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317400
Sub Alias Name: B(k)F
Substance Alias ID: 317401
Sub Alias Name: BENZOFLUORANTHENE,11,12-
Comment ID: 306074
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351190
Feature Id: 0
Hazard Release Id: 388568
Medium: 698
Substance Abbrev.: 0
Unit Code: 8

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 47.20
Sample Comment: up to 47.2 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 120781
Haz Release ID: 388569
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147
Sub Alias Name: PHENYLETHANE
Comment ID: 306075
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351191
Feature Id: 0
Hazard Release Id: 388569
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 2140.00
Sample Comment: up to 2,140 ppb
Last Update By: KDANA
Update Date: 04/06/2021

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Decode for MediumID: Groundwater

Substance ID.: 120883
Haz Release ID: 388570
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 108-88-3
Substance Name: TOLUENE
Substance Abbrev.: Not reported
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8520
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316466
Sub Alias Name: BENZENE,METHYL-
Substance Alias ID: 316467
Sub Alias Name: METHACIDE
Substance Alias ID: 316468
Sub Alias Name: METHYLBENZENE
Substance Alias ID: 316469
Sub Alias Name: METHYLBENZOL
Substance Alias ID: 316470
Sub Alias Name: PHENYLMETHANE
Substance Alias ID: 316471
Sub Alias Name: TOLUOL
Comment ID: 306076
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351193
Feature Id: 0
Hazard Release Id: 388570
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 7550.00
Sample Comment: up to 7,550 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121912

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Haz Release ID: 388571
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 95-63-6
Substance Name: TRIMETHYLBENZENE,1,2,4-
Substance Abbrev.: Not reported
Substance Alias ID: 317959
Sub Alias Name: BENZENE,1,2,5-TRIMETHYL-
Substance Alias ID: 317960
Sub Alias Name: CUMENE,psi-
Substance Alias ID: 317961
Sub Alias Name: PSEUDOCUMENE
Substance Alias ID: 317962
Sub Alias Name: PSEUDOCUMOL
Substance Alias ID: 317963
Sub Alias Name: TRIMETHYLBENZENE,asym-
Comment ID: 306077
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351194
Feature Id: 0
Hazard Release Id: 388571
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 545.00
Sample Comment: up to 545 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 120878
Haz Release ID: 388572
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 108-67-8
Substance Name: TRIMETHYLBENZENE,1,3,5-
Substance Abbrev.: Not reported
Substance Alias ID: 316454
Sub Alias Name: BENZENE,1,3,5-TRIMETHYL-
Substance Alias ID: 316455
Sub Alias Name: MESITYLENE
Substance Alias ID: 316456
Sub Alias Name: TRIMENTHYLBENZENE,sym-
Substance Alias ID: 316457

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Sub Alias Name: TRIMETHYLBENZOL
Comment ID: 306078
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351195
Feature Id: 0
Hazard Release Id: 388572
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 254.00
Sample Comment: up to 254 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Substance ID.: 121051
Haz Release ID: 388573
Qty Released: unknown
Date Released: unknown
Update Date: 04/06/2021
Update By: KDANA
Substance Code: 1330-20-7
Substance Name: XYLENEs
Substance Abbrev.: Not reported
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317017
Sub Alias Name: DIMETHYLBENZENEs
Substance Alias ID: 317018
Sub Alias Name: XYLOLs
Comment ID: 306079
Release Code: Data Sources
Release Comments: AMEC Remedial Action Closure Report for Lot 1 (October 2005)
Decode for Relcomcd: Data Sources
Sampling Result ID: 351196
Feature Id: 0
Hazard Release Id: 388573
Medium: 698
Substance Abbrev.: 0
Unit Code: 8

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Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3880.00
Sample Comment: up to 3,880 ppb
Last Update By: KDANA
Update Date: 04/06/2021
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5758116
NARR Code: Site Contacts
Created By: KDANA
Created Date: 04/01/2021
Updated By: KDANA
Updated Date: 04/01/2021
Decode for NarcdID: Site Contacts
NARR Comments: Ownership information as of October 2019 Lot 1: SP Tower Limited Partnership 4150 SW Moody Avenue Portland, OR 97239 Lot 2: Soneed LLC 1970 NW 18th Avenue, #7 Portland, OR 97209 Lots 3 and 8: PDC DBA Prosper Portland 222 NW 5th Avenue Portland, OR 97209-3812 Lots 4 and 7: David Millard WH Pearl Hotel LLC c/o Washington Holdings, LLC 4640 Admiralty Way, Suite 231 Marina Del Ray, CA 90292 dmillard@waholdings.com

NARR ID: 5738591
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Contamination
NARR Comments: A Phase 1 Environmental Site Assessment was completed in April 1999, and the Portland Development Commission (PDC) entered the site into DEQ's Independent Cleanup program in July 1999. The site was transferred to the Voluntary Cleanup program a year later at the PDC's request. Field work for a Remedial Investigation was conducted from October 1999 to June 2002, and included the collection of soil and/or groundwater samples from 123 borings and eight test pits. Fourteen of the borings were completed as monitoring wells. RI reports for soils and groundwater were completed in July 2002 and December 2002, respectively. Elevated concentrations of TPH, arsenic, lead, and PAHs (in particular benzo[a]pyrene and naphthalene) were detected in shallow soils across the site, with very high (hot spot) concentrations of TPH and PAHs in the southwest corner of the site (northeast of the intersection of 9th & Lovejoy, on Lots 1 and 2). Contaminant concentrations generally decreased with depth, and were not present in native soils underlying the fill, except on Lots 1 and 2. Elevated concentrations of arsenic, lead, and benzo[a]pyrene were detected in shallow groundwater across the site, while higher concentrations of benzene, naphthalene, and carcinogenic PAHs were present in intermediate and deeper groundwater (up to 100 ft bgs) in the southwest corner of the site, beneath Lots 1 and 2. Free-product and dissolved-phase contamination extended to 70 ft bgs in the

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

southwest corner of the site.

NARR ID: 5738592
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/13/2021
Decode for NarcdID: Data Sources
NARR Comments: 1) Phase I Environmental Site Assessment, AGRA Earth and Environmental, April 1999. 2) Lovejoy Ramp Demolition & Construction Report, Herrera Environmental Consultants, August 1999. 3) Exposure Risk Characterization, Lovejoy Ramp Demolition, Kleinfelder, Inc., December 1999. 4) Analysis of Exploration Phases I and II Data, AGRA, January 2000. 5) Site Specific Hot Spot Determination, AGRA, April 2000. 6) Revised Preliminary Cost Effectiveness Evaluation, AGRA, July 2000. 7) Horse Barn Data Package, AGRA, August 2000. 8) Pre-Removal Soil Sampling and Management Plan, OMEC, September 2000. 9) AMEC <quot>Comprehensive Soil Remedial Investigation Report<quot> [July 9, 2002]. 10) AMEC <quot>Comprehensive Groundwater Remedial Investigation Report<quot> [December 3, 2002]. 11) DEQ <quot>Staff Report<quot> [March 31, 2003]. 12) DEQ <quot>Record of Decision<quot> [May 9, 2003]. 13) AMEC <quot>Remedial Action Work Plan<quot> [July 25, 2003]. 14) AMEC <quot>Interim Remedial Action Closure Report<quot> [August 22, 2003]. 15) AMEC <quot>Remedial Action Closure Report - Lot 7<quot> [August 22, 2003]. 16) AMEC <quot>Remedial Action Closure Report - Lot 3<quot> [July 27, 2005]. 17) AMEC <quot>Remedial Action Closure Report - Lot 1<quot> [October 21, 2005]. 18) DEQ <quot>Staff Closure Memo - Lots 1, 3, and 7<quot> [November 15, 2005]. 19) AMEC <quot>Remedial Action Closure Report - Lot 8<quot> [February 8, 2007]. 20) AMEC <quot>Remedial Action Closure Report - Street Right-of-Ways<quot> [June 8, 2007]. 21) AMEC <quot>Remedial Action Closure Report - Lot 2<quot> [April 16, 2009]. 22) AMEC <quot>Remedial Action Closure Report Addendum - Lot 2<quot> [September 23, 2009]. 23) DEQ <quot>Staff Closure Memo - Lot 2<quot> [August 15, 2012]. 24) AMEC <quot>Remedial Action Closure Report - Lot 4<quot> [April 25, 2014]. 25) DEQ <quot>Staff Closure Memo - Lot 4<quot> [April 30, 2014]. 26) Wood <quot>Remedial Action Closure Report - Lot 5<quot> [December 11, 2018]. 27) DEQ <quot>Staff Closure Memo - Lot 5<quot> [October 10, 2019]. 28) LUST file #26-02-1284. 29) LUST file #26-02-1285. 30) UST Facility ID #12166.

NARR ID: 5752068
NARR Code: General Site Description
Created By: GWISTAR
Created Date: 03/12/2010
Updated By: KDANA
Updated Date: 04/13/2021
Decode for NarcdID: General Site Description
NARR Comments: Station Place was bordered to the south by the Lovejoy Viaduct, which extended along the Lovejoy Street right-of-way from the Broadway Bridge to NW 14th Avenue. The viaduct was torn down in 1999, and by 2001 had been replaced by the Lovejoy Ramp, which extended from the bridge to NW 9th Avenue. Redevelopment of Station Place began in September 2002 with infrastructure improvements, including the installation of underground utilities and the construction of local streets. A total of 13,485 tons of soils were excavated from the

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

street right-of-ways and shipped to the Hillsboro Landfill for disposal. An additional 56,957 gallons of groundwater, 987 gallons of oil, and 525 gallons of sediments were removed during the installation of deep sanitary and storm sewers. Construction of a surface parking lot on Lot 7 (beneath the Lovejoy Ramp) began in January 2003. A total of 1,455 tons of soils were excavated from Lot 7 in May and June 2003 and shipped to the Hillsboro Landfill for disposal. Construction on Lots 1 and 3 began in July 2003. A total of 3,681 tons of soils were excavated from Lot 3 from July to December 2003, and a five-story parking garage was constructed on the lot. A total of 2,309 tons of soils were excavated from Lot 1 from July to November 2003, and approximately 28,000 gallons of groundwater were pumped from an electrical vault excavation. A 14-story residential tower was constructed on Lot 1, with a vapor barrier and passive venting system installed beneath the building slab. Construction of Station Place Tower (1020 NW 9th Ave.) and the parking garage was completed in 2004. Approximately 7,025 tons of soil and 37,000 gallons of groundwater were removed from Lot 2 from March to June 2008. An additional 204 tons of soil were removed from Lot 2 in May 2009. A 3-story commercial office building was constructed on the lot, with a vapor barrier and passive venting system installed beneath the building slab. Construction of the office building, at 810 NW Marshall Street, was completed in 2009. Redevelopment of Lot 4 began in November 2012. A total of 12,893 tons of soil were excavated from Lot 4 from November 2012 through November 2013, and a six-story hotel was constructed on the lot. Construction of the Pearl District Marriott Residence Inn, at 1150 NW 9th Avenue, was completed in 2014. Construction of an eight-story commerical office building on Lot 5 began in December 2016. A total of 13,997 tons of soil were excavated from Lot 5 from December 2016 through August 2018. The office building, at 1250 NW 9th Avenue, was completed in 2019.

NARR ID: 5738593
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/01/2021
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAHs), arsenic, and lead

NARR ID: 5738594
NARR Code: Project Issues Summary
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 10/18/2012
Decode for NarcdID: Project Issues Summary
NARR Comments: Site work initiated by Portland Development Commission (PDC) as independent cleanup action (ICP) project with limited DEQ oversight in 1999. DEQ review of Phase I conceptual work plan completed 10/99, and feedback to PDC present in same month. Site investigation subsequently completed in Oct. and Nov. 1999. Based on results and perceived site complexity, site moved to standard VCP oversight in 2000. A number of additional phase of soil and groundwater site investigation work completed in 2000 to 2002. Soil Remedial

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Investigation (RI) completed in July 2002, and Groundwater RI including comprehensive on-site risk assessment completed in December 2002. On-site Feasibility Study completed in March 2003. Public notice and comment on proposed site remedy (hot spot removal, engineering and institutional controls) completed in April 2003, and Record of Decision issued on May 9, 2003. Remedial Action Work Plan for remedy implementation completed in June 2003. In late June, remedy implementation began at the site in conjunction with site development work. First phase of work consisted of capping of Lot 7, followed by development of Lots 1 and 3. Development on all three lots is now complete, as is additional off-site assessment to evalute impacts from remaining shallow groundwater contamination to utilities below NW 9th Avenue. While some impacts were observed, they attenuated to non-detectable levels downgradient of the site (within the Tanner Creek Sewer). A conditional NFA was issued for Lot 1 in February 2006. A Closure Report for Lot 8 (earthen fill portion of the Lovejoy Ramp) was submitted in February 2007 and accepted by DEQ. NFAs were issued for Lots 3 and 7 on May 5, 2008, and development of Lot 2 is in progress with nearly all capping activity complete. Development and attendant capping on Lots 4 and 5 has not yet begun. Five years of post-ROD groundwater sampling has been completed, and DEQ is satisfied that while MGP-related contamination extends downgradient of the site, it does not reach the Willamette River (nor is it expected to do so given the age of the release). A Revised Final Annual Groundwater Monitoring Report - 2008 was accepted by DEQ in January 2009. No additional site groundwater monitoring is expected to be needed. Lot 2 Closure approved by DEQ in 2010. Subsequent cutting and repair of Ziba building vapor barrier approved by DEQ to facilitate building improvements, with last work completed in 2011. Following recording of a site easement, DEQ issued a condition NFA letter for the lot on October 18, 2012.

NARR ID: 5757355
NARR Code: Site Location
Created By: KDANA
Created Date: 01/03/2019
Updated By: KDANA
Updated Date: 01/30/2019
Decode for NarcdID: Site Location
NARR Comments: The triangular site is bounded by NW 9th Avenue to the west, NW Lovejoy Street to the south, and railroad tracks to the northeast. The site address also includes 810 NW Marshall Street.

NARR ID: 5738595
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/01/2021
Decode for NarcdID: Manner of Release
NARR Comments: Contamination in the southwest corner of the site (northeast of the intersection of 9th & Lovejoy) is associated with a former Pintsch manufactured gas plant that operated on the southeast corner of the intersection from 1893 to 1934. Contamination in near-surface soils across much of the rest of the site resulted from railyard operations from roughly 1908 to 1988.

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NARR ID: 5757396
NARR Code: Media Contamination
Created By: KDANA
Created Date: 01/31/2019
Updated By: KDANA
Updated Date: 01/31/2019
Decode for NarcdID: Media Contamination
NARR Comments: Soil and groundwater

NARR ID: 5738596
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site generally consist of miscellaneous fill (including bricks, wood, and slag) underlain by dredge sand to depths up to 25 feet below ground surface. Sandy silts (alluvial deposits) and gravels (the Troutdale Gravel Aquifer) underlie the fill. Groundwater is typically encountered at 10 feet bgs and extends up to 100 feet bgs. Shallow groundwater (10-20 ft bgs) in the western part of the site flows west (toward the abandoned Tanner Creek storm sewer line beneath 9th Avenue). Shallow groundwater on the eastern part of the site, along with deeper groundwater, flows toward the Willamette River, 800 feet to the northeast. The site has been completely capped by development. A Level 1 (Scoping) Ecological Risk Assessment, completed in September 2001, identified no ecological habitats or terrestrial receptors at the site. The nearest sensitive environment is the Willamette River, home to two threatened species (Chinook salmon and Steelhead).

NARR ID: 5738597
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/13/2021
Decode for NarcdID: Remedial Action
NARR Comments: In January 2001, 105 cubic yards of near-surface soils with hot-spot levels of PAH contamination (manufactured gas plant wastes) were removed from the southwest corner of the site, followed by an additional 677 cubic yards (2,497 tons) of hot-spot soils in November and December 2002. In September and October 2002, street right-of-ways at the site were excavated to 5 ft bgs and backfilled with imported clean fill. After investigating the remaining on-site contamination and evaluating various cleanup alternatives, DEQ issued a Record of Decision (ROD) in May 2003. The ROD required capping the entire site with hardscape (buildings, asphalt, concrete) or two feet of imported clean fill, and the installation of vapor barriers and passive venting systems beneath the buildings on Lots 1 & 2. Institutional controls (deed restrictions) requiring inspection and maintenance of the cap and a prohibition on groundwater use would be recorded on all of the lots. A Remedial Action Work Plan was completed in July 2003. Remedy implementation was coordinated with site development. Demarcation fabric was laid down across the site during construction to separate native contaminated soils from

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

imported clean soils. Remedial Action Closure Reports were prepared for each lot as construction was completed. DEQ subsequently issued No Further Action letters for each lot. Closure Reports were prepared for Lot 7 (a surface parking lot) in 2003, and for Lots 1 and 3 (a residential tower and parking garage, respectively) in 2005. DEQ prepared a combined Staff Closure Memo for the three lots in November 2005. NFA letters were issued for Lot 1 in February 2006, and for Lots 3 & 7 in May 2008. A Closure Report for Lot 2 (a commercial office building) was prepared in April 2009, followed by an Addenum in September 2009. DEQ prepared a Staff Closure Memo for Lot 2 in August 2012, and an NFA letter was issued in October 2012. A Closure Report for Lot 4 (a hotel) was prepared in April 2014. A Staff Closure Memo was completed the same month, and an NFA letter was issued in June 2014. A Closure Report for Lot 5 (a commercial office building) was prepared in December 2018, and a Staff Closure Memo was completed in October 2019. Lot 5 was later split out into its own site (ECSI #6455). DEQ issued an overarching No Further Action letter for the Station Place Redevelopment in March 2021. Note that all soils excavated from the site (from 2001 through 2018) were shipped to the Hillsboro Landfill for disposal.

NARR ID: 5738598
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 03/04/2019
Decode for NarcdID: Health Threats
NARR Comments: Residual soil and groundwater contamination remains at the site. However, the risk of direct contact with contaminated soils is low, as the entire site has been capped by development. Contaminated groundwater does not extend to the Willamette River, and future beneficial use of groundwater in the area is not likely. Deed restrictions recorded with each of the lots prohibit penetrating the cap or extracting groundwater for beneficial use without notifying DEQ.

NARR ID: 5753008
NARR Code: Institutional Control
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Institutional Control
NARR Comments: The entirety of the Station Place site has been capped with either buildings, hardscape (streets, sidewalks, etc.), or two feet of imported clean fill. Passive vapor mitigation systems have also been installed beneath the building slabs on Lots 1 and 2 to prevent subsurface vapors from entering the buildings. Deed restrictions have been recorded with Lots 1, 2, 3, 4, and 7 requiring long-term monitoring and maintenance of the caps and prohibiting beneficial use of the groundwater. Annual cap inspection reports are required for Lots 1, 2, and 4. In 2011, DEQ approved decreasing the frequency of cap inspections for Lots 3 and 7 to once every five years, following review of five years of consecutive annual cap inspections showing no notable concerns. In 2013, DEQ determined that the earthen fill portion of the Lovejoy Ramp (Lot 8) and the street right-of-ways

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within Station Place did not require annual cap inspections. The owner of Lot 5 has not recorded a deed restriction on the property as required. In 2021, DEQ dropped Lot 5 from the requirements of the Station Place ROD. Further work on Lot 5 will be conducted under a separate file number (ECSI #6455).

NARR ID: 5757395
NARR Code: Site History
Created By: KDANA
Created Date: 01/31/2019
Updated By: KDANA
Updated Date: 03/30/2021
Decode for NarcdID: Site History
NARR Comments: The Station Place Redevelopment site was originally part of a wetlands area associated with Couch Lake (to the southeast), Tanner Creek (to the west), and the Willamette River (to the northeast). The area was filled in with 10-20 feet of imported soils and dredge sands in the late 1800s, and by 1908 the area had been developed as a railyard. A parking garage for an adjacent commissary building was constructed near the northeast corner of NW 9th Avenue and Lovejoy Street in 1942. The Portland Development Commission (PDC) purchased the Station Place site in 1987, and removed the rail lines from all but Lot 6 in 1988. [Lot 6 was subsequently dropped from the Station Place site]. By 1990, the parking garage had been renovated into a <quot>horse barn<quot> (stables) for the Portland Mounted Patrol Unit, and a corral was constructed north of the barn (along the east side of 9th Avenue). The Portland MPU vacated the site in late 2001.

NARR ID: 5754386
NARR Code: 1922
Created By: DHAFLEY
Created Date: 12/16/2012
Updated By: KDANA
Updated Date: 04/13/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Station Place was a City of Portland redevelopment project located north of NW Lovejoy Street and east of NW 9th Avenue. The land was originally developed in the early 1900s as a railyard. The Portland Development Commission purchased the land in 1987, and by 1990 had converted the railyard into a horse barn (stables) and corral for Portland's Mounted Patrol Unit. Environmental investigations beginning in 1999 identified petroleum products and constituents in shallow soils across the site, along with arsenic and lead. Very high (hot spot) levels of petroleum contamination were present in the southwest corner of the site, extending up to 70 feet below ground surface, and were attributed to a former manufactured gas plant that operated on the southeast corner of 9th & Lovejoy from 1893 to 1934. The Mounted Patrol Unit vacated the site at the end of 2001, and cleanup and redevelopment of the site began in 2002. From 2002 through 2018, over 55,000 tons of soil and 85,000 gallons of groundwater were removed from the site. The bulk of the site was redeveloped with a 14-story residential tower (Lot 1), a 3-story commercial office building (Lot 2), a 5-story parking garage (Lot 3), a 6-story hotel (Lot 4), and an 8-story commercial office building (Lot 5). The entire site has been capped with either buildings, hardscape, or two feet of clean soil. Vapor barriers and passive venting systems were installed beneath Lots 1 & 2. With the exception

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of long-term monitoring and maintenance of the caps, no further action is necessary at the site.

Site Control:

Site Control #:	430
Control Number:	36
Begin Date:	06/01/2005
End Date:	Not reported
Frequency Of Review:	12
Last Reviewed By:	Dan Hafley, Cleanup & Portland Harbor Section
Last Reviewed Date:	03/11/2011
Last Update By:	DHAFLEY
Last Updated Date:	10/11/2015
Site Comment:	Lots 1, 2, 3. 4 and 7 of the Horse Barn (aka Station Place Redevelopment) site have been capped with a combination of soil (2' in landscaped areas) and hardscape (approximately 1' consisting of aggregate subbase and overlying concrete or asphalt). Landscaped cap is underlain by a black geotextile fabric separating contaminated soil from clean cap. Lots 1 and 2 also have passive vapor mitigation systems consisting of subslab vapor collection systems and vapor barriers. The Lot 1 vapor barrier consists of a yellow multi-ply <quot>Rhino-Wrap<quot> barrier, while that for Lot 2 consists of a blown-on <quot>Liquid Boot<quot>. Post-construction monitoring at both Lots 1 and 2 has confirmed that residual soil and groundwater contamination below buildings on these lots is not impacting above-ground air quality, and that no additional air monitoring is necessary pending the receipt of new information. DEQ will confirm that cap inspection at Lots 1, 2, 3, and 7 is up-to-date. Some reduction in the frequency of monitoring may be appropriate after the initial 5-year period of annual review is completed for individual lots. A cap inspection was completed for site roadways and the earthen fill portion of the Lovejoy Ramp in June 2013. All capping elements were in good condition. Based on the nature of these areas, DEQ will not require ongoing inspection of the ramp and City of Portland streets within the Horse Barn (aka Station Place Redevelopment) site. Cap inspection reports for Lots 4 and 7 submitted to DEQ in October 2015 and both in good condition. Lot 7 is on five-year review schedule, with next inspection scheduled for 2020. Lot 4 is in annual review through 2019.

Site Control #:	431
Control Number:	34
Begin Date:	06/01/2005
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	Dan Hafley
Last Reviewed Date:	03/11/2011
Last Update By:	DHAFLEY
Last Updated Date:	03/11/2011
Site Comment:	The high-rise residential tower constructed over Lot 1 is underlain by a vapor mitigation system to address benzene in shallow groundwater. The system consists of a vapor barrier below the building slab, and a PVC vapor collection system connected to underground vaults. The site remedy specifies semi-annual or annual sampling for 5 years to confirm that the vapor mitigation system is effective. Monitoring has been completed. No additional air monitoring at Site 1 is necessary. A vapor barrier was likewise constructed below the Lot 2 building, and two rounds of air monitoring completed. No impacts were observed and

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addtional air monitoring is not necessary. Lots 1, 2, 3, and 7 all have surface caps and underlying demaracation material present in, at a minimum, where soil caps are prsent.

Site Control #: 432
Control Number: 4
Begin Date: 06/01/2005
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Reviewed Date: 03/11/2011
Last Update By: DHAFLEY
Last Updated Date: 03/11/2011
Site Comment: A E&ES has been recorded with the property deed for Lots 1 and 2 outlining the cap and vapor mitigation maintenance requirements, and prohibiting use of groundwater beneath the site. EES documents for Lots 3 and 7 are likewise in place requiring cap inspection and maintenance, and prohibiting groundwater use. Not vapor barriers are necessary for Lots 3, 4, 5, and 7 (4 and 5 not yet developed as of 2011).

Site Control #: 433
Control Number: 3
Begin Date: 01/01/2006
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Reviewed Date: 03/11/2011
Last Update By: DHAFLEY
Last Updated Date: 10/22/2019
Site Comment: An EES was recorded with the property deed for Lot 1 in January 2006, restricting beneficial use of groundwater and requiring maintenance of a cap, vapor barrier, and passive vapor ventilation system. Easements were recorded with the property deeds for Lot 3 and Lot 7 in February 2008, restricting beneficial use of groundwater on each lot and requiring maintenance of their respective caps. Amendments to each EES were recorded in September 2012, reducing the frequency of cap inspections from annually to once every five years. An EES was recorded with the property deed for Lot 2 in September 2011, restricting beneficial use of groundwater and requiring maintenance of a cap, vapor barrier, and passive vapor ventilation system. An EES was recorded with the property deed for Lot 4 in May 2014, restricting beneficial use of groundwater and requiring maintenance of a cap. An EES for Lot 5 has not yet been recorded.

Administrative Action:
Action ID: 9438
Region: Northwestern Region
Complete Date: 01/23/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported

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Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 01/23/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 09/25/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 05/30/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 05/31/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

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Action ID: 9499
Region: Northwestern Region
Complete Date: 05/31/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 02/10/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/25/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 01/01/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 09/25/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9486

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Region: Northwestern Region
Complete Date: 12/02/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 03/03/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9473
Region: Northwestern Region
Complete Date: 06/27/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL DESIGN
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 08/09/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: Low
Comments: Not reported

Action ID: 9494
Region: Northwestern Region

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Complete Date: 05/09/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 12/18/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9409
Region: Northwestern Region
Complete Date: 06/19/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/10/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Beneficial Water Use Assessment
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 03/25/2021
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/31/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 02/01/2008

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/07/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 09/08/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 05/31/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: Not reported
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 09/09/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/09/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 10/18/2012
Rank Value: Not reported

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Cleanup Flag: False
Created Date: 10/18/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: Low
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 06/27/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/27/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 05/05/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 01/26/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 09/28/2012
Rank Value: Not reported
Cleanup Flag: False

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Created Date: 01/30/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 05/28/2014
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133608
Operation Status: Inactive
Common Name: Union Station Railyard
Yrs of Operation: 1908-1987
Comments: Not reported
Updated Date: 01/31/2019
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 196836
SIC Code: 4011
Created By: Not reported
Created Date: 12/17/2002

Enginering Control:
Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 431
Site Id: 2407
Control Sequence #: 34
Begin Date: 06/01/2005
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Review Date: 03/11/2011
Last Updated By: DHAFLEY
Last Updated Date: 03/11/2011
Group Sequence #: 8
Control Code: LS
Control Description: Liner, synthetic
FK Type Code: 2
Group Code: SSB
Group Description: Subsurface Barriers

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Type Code:	E
Type Description:	Engineering
Comments:	The high-rise residential tower constructed over Lot 1 is underlain by a vapor mitigation system to address benzene in shallow groundwater. The system consists of a vapor barrier below the building slab, and a PVC vapor collection system connected to underground vaults. The site remedy specifies semi-annual or annual sampling for 5 years to confirm that the vapor mitigation system is effective. Monitoring has been completed. No additional air monitoring at Site 1 is necessary. A vapor barrier was likewise constructed below the Lot 2 building, and two rounds of air monitoring completed. No impacts were observed and addtional air monitoring is not necessary. Lots 1, 2, 3, and 7 all have surface caps and underlying demaracation material present in, at a minimum, where soil caps are prsent.
Name:	STATION PLACE REDEVELOPMENT
Address:	1020 & 1150 NW 9TH AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	430
Site Id:	2407
Control Sequence #:	36
Begin Date:	06/01/2005
End Date:	Not reported
Frequency Of Review:	12
Last Reviewed By:	Dan Hafley, Cleanup & Portland Harbor Section
Last Review Date:	03/11/2011
Last Updated By:	DHAFLEY
Last Updated Date:	10/11/2015
Group Sequence #:	9
Control Code:	CPE
Control Description:	Cap, engineered
FK Type Code:	2
Group Code:	SB
Group Description:	Surface Barriers
Type Code:	E
Type Description:	Engineering
Comments:	Lots 1, 2, 3. 4 and 7 of the Horse Barn (aka Station Place Redevelopment) site have been capped with a combination of soil (2' in landscaped areas) and hardscape (approximately 1' consisting of aggregate subbase and overlying concrete or asphalt). Landscaped cap is underlain by a black geotextile fabric separating contaminated soil from clean cap. Lots 1 and 2 also have passive vapor mitigation systems consisting of subslab vapor collection systems and vapor barriers. The Lot 1 vapor barrier consists of a yellow multi-ply <quot>Rhino-Wrap<quot> barrier, while that for Lot 2 consists of a blown-on <quot>Liquid Boot<quot>. Post-construction monitoring at both Lots 1 and 2 has confirmed that residual soil and groundwater contamination below buildings on these lots is not impacting above-ground air quality, and that no additional air monitoring is necessary pending the receipt of new information. DEQ will confirm that cap inspection at Lots 1, 2, 3, and 7 is up-to-date. Some reduction in the frequency of monitoring may be appropriate after the initial 5-year period of annual review is completed for individual lots. A cap inspection was completed for site roadways and the earthen fill portion of the Lovejoy Ramp in June 2013. All capping elements were in good condition. Based on the nature of these areas, DEQ will not require ongoing inspection of the ramp and City of Portland

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

streets within the Horse Barn (aka Station Place Redevelopment) site. Cap inspection reports for Lots 4 and 7 submitted to DEQ in October 2015 and both in good condition. Lot 7 is on five-year review schedule, with next inspection scheduled for 2020. Lot 4 is in annual review through 2019.

Institutional Control:

Name:	STATION PLACE REDEVELOPMENT
Address:	1020 & 1150 NW 9TH AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	432
Site Id:	2407
Control Sequence #:	4
Begin Date:	06/01/2005
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	Dan Hafley
Last Review Date:	03/11/2011
Last Updated By:	DHAFLEY
Last Updated Date:	03/11/2011
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	A E&ES has been recorded with the property deed for Lots 1 and 2 outlining the cap and vapor mitigation maintenance requirements, and prohibiting use of groundwater beneath the site. EES documents for Lots 3 and 7 are likewise in place requiring cap inspection and maintenance, and prohibiting groundwater use. Not vapor barriers are necessary for Lots 3, 4, 5, and 7 (4 and 5 not yet developed as of 2011).

Name:	STATION PLACE REDEVELOPMENT
Address:	1020 & 1150 NW 9TH AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	433
Site Id:	2407
Control Sequence #:	3
Begin Date:	01/01/2006
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	Dan Hafley
Last Review Date:	03/11/2011
Last Updated By:	DHAFLEY
Last Updated Date:	10/22/2019
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Comments: An EES was recorded with the property deed for Lot 1 in January 2006, restricting beneficial use of groundwater and requiring maintenance of a cap, vapor barrier, and passive vapor ventilation system. Easements were recorded with the property deeds for Lot 3 and Lot 7 in February 2008, restricting beneficial use of groundwater on each lot and requiring maintenance of their respective caps. Amendments to each EES were recorded in September 2012, reducing the frequency of cap inspections from annually to once every five years. An EES was recorded with the property deed for Lot 2 in September 2011, restricting beneficial use of groundwater and requiring maintenance of a cap, vapor barrier, and passive vapor ventilation system. An EES was recorded with the property deed for Lot 4 in May 2014, restricting beneficial use of groundwater and requiring maintenance of a cap. An EES for Lot 5 has not yet been recorded.

VCS:

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: FEASIBILITY STUDY
Start Date: 01/01/2003
End Date: 03/03/2003
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Facility proposed for Confirmed Release List
Start Date: 09/25/2000
End Date: 09/25/2000
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: No Further Action (Conditional)
Start Date: 03/25/2021
End Date: 03/25/2021
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Action: Partial No Further Action
Start Date: 06/27/2014
End Date: 06/27/2014
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Beneficial Water Use Assessment
Start Date: 06/19/2002
End Date: 06/19/2002
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Partial No Further Action
Start Date: 02/10/2006
End Date: 02/10/2006
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Institutional Control
Start Date: 09/09/2011
End Date: 09/09/2011
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: RISK ASSESSMENT
Start Date: 08/01/2002
End Date: 12/02/2002
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Institutional Control
Start Date: 02/01/2008
End Date: 02/01/2008
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: REMEDIAL DESIGN
Start Date: 03/04/2003
End Date: 06/27/2003
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: REMEDIAL ACTION
Start Date: 06/19/2003
End Date: 08/09/2005
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: RECORD OF DECISION
Start Date: 05/09/2003
End Date: 05/09/2003
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: REMOVAL
Start Date: 01/08/2001
End Date: 12/18/2002
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Partial No Further Action
Start Date: 10/18/2012
End Date: 10/18/2012
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Proposal for Confirmed Release List recommended
Start Date: 05/31/2000
End Date: 05/31/2000
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Site added to database
Start Date: 09/08/1999
End Date: 09/08/1999
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: REMEDIAL INVESTIGATION
Start Date: 05/31/2000
End Date: 01/01/2003
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 01/21/2000
End Date: 05/30/2000
Program: VCS

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Institutional Control
Start Date: 05/28/2014
End Date: 05/28/2014
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Proposal for Inventory recommended
Start Date: 05/31/2000
End Date: 05/31/2000
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Facility placed on Confirmed Release List
Start Date: 01/23/2001
End Date: 01/23/2001
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Facility placed on Inventory
Start Date: 01/23/2001
End Date: 01/23/2001
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Facility proposed for Inventory

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

Start Date: 09/25/2000
End Date: 09/25/2000
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Partial No Further Action
Start Date: 05/05/2008
End Date: 05/05/2008
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Institutional Control
Start Date: 01/26/2006
End Date: 01/26/2006
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Institutional Control
Start Date: 09/28/2012
End Date: 09/28/2012
Program: VCP
Latitude: 45.5306
Longitude: -122.6797

Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2407
Facility Size: 6.3 acres
Action: Independent Cleanup Program
Start Date: 07/28/1999
End Date: 05/31/2000
Program: VCS
Latitude: 45.5306
Longitude: -122.6797

OR BROWNFIELDS:
Name: STATION PLACE REDEVELOPMENT
Address: 1020 & 1150 NW 9TH AVE.

STATION PLACE REDEVELOPMENT (Continued) **S105614268**

City,State,Zip: PORTLAND, OR 97209
Geolocation Id: 91857
Status: No Further Action (Conditional)
Lat/Long: 45.5306 / -122.679

P59 **S & H LEASING CO** **OR LUST U001828993**
West **1725 NW QUIMBY ST** **OR UST N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.273 mi.
1439 ft. **Site 2 of 2 in cluster P**

Relative:
Higher

Actual:
47 ft.

LUST:
Name: S & H LEASING CO
Address: 1725 NW QUIMBY ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-99-1356
Cleanup Received Date: 12/09/1999
Cleanup Start Date: 12/04/1999
Cleanup Complete Date: 01/21/2000
Decode for Region: North West Region

UST:
Name: S & H LEASING CO
Address: 1725 NW QUIMBY ST
City: PORTLAND
Facility ID: 11359
Facility Telephone: (503) 656-2693
Permittee Name: STEVEN E. WYMORE, PRESIDENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 4
Number of Tanks: 4

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60 **HUTCHESON, DON** **OR LUST U000432390**
West **1732 NW QUIMBY ST** **OR UST N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.280 mi.
1479 ft.

Relative:
Higher

Actual:
49 ft.

LUST:
Name: PACAT PROPERTIES/HUTCHESON, DON
Address: 1732 NW QUIMBY
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-90-0226
Cleanup Received Date: 06/22/1990
Cleanup Start Date: 06/20/1990
Cleanup Complete Date: 10/11/1990
Decode for Region: North West Region

UST:
Name: HUTCHESON, DON
Address: 1732 NW QUIMBY ST
City: PORTLAND

HUTCHESON, DON (Continued) **U000432390**

Facility ID: 10426
Facility Telephone: (503) 226-2841
Permittee Name: DON HUTCHESON
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

S61 **HEATING OIL TANK** **OR LUST** **S123666261**
SW **1111 NW 16TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.280 mi.
1480 ft. **Site 3 of 4 in cluster S**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
53 ft. Address: 1111 NW 16TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-18-1270
Cleanup Received Date: 11/07/2018
Cleanup Start Date: Not reported
Cleanup Complete Date: 12/04/2018
Decode for Region: North West Region

U62 **HEATING OIL TANK** **OR LUST** **S104819978**
SSW **930 NW 14TH (INTERSECTION)** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.280 mi.
1481 ft. **Site 1 of 2 in cluster U**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
43 ft. Address: 930 NW 14TH (INTERSECTION)
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-00-6445
Cleanup Received Date: 11/29/2000
Cleanup Start Date: 11/29/2000
Cleanup Complete Date: 04/03/2001
Decode for Region: North West Region

U63 **MCCLASKEY'S WINE DISTRIBUTOR** **OR LUST** **U000432395**
SSW **930 NW 14TH AVE** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.280 mi.
1481 ft. **Site 2 of 2 in cluster U**

Relative: LUST:
Higher
Actual: Name: MCCLASKEY'S WINE DISTRIBUTOR
43 ft. Address: 930 NW 14TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-91-0027
Cleanup Received Date: 01/17/1991

MCCLASKEY'S WINE DISTRIBUTOR (Continued) **U000432395**

Cleanup Start Date: 01/16/1991
Cleanup Complete Date: 02/28/1991
Decode for Region: North West Region

UST:
Name: MCCLASKEY'S WINE DISTRIBUTOR
Address: 930 NW 14TH AVE
City: PORTLAND
Facility ID: 5357
Facility Telephone: (503) 224-3150
Permittee Name: LAURA FRANTZ, ACCOUNTING DEPARTMENTT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

T64 **ALBERS MILL PROPERTY** **OR ECSI** **S108663486**
ESE **1200 NW NAITO PKWY.** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.284 mi.
1502 ft. **Site 2 of 3 in cluster T**

Relative: **Lower**

Actual: **28 ft.**

ECSI:
Name: ALBERS MILL PROPERTY
Address: 1200 NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 4590
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Suspect
FACA ID: 91777
Further Action: 258
Lat/Long (dms): 45 31 53.00 / -122 40 35.40
County Code: 26.00
Score Value: 92
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: Ba
Tax Lots: 100 (1N1E34BA)
Size: 3.22 acres
NPL: False
Orphan: False
Updated By: SFORTUN
Update Date: 04/10/2006
Created Date: 02/22/2006
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Medium
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Flanders Greenwich Warehouses

ALBERS MILL PROPERTY (Continued) **S108663486**

Alias Name: Interstate Terminals
Alias Name: McCormick Terminal Dock No. 2
Alias Name: Carnation-Albers Co.

Hazardous Release:
Substance ID.: 121673
Haz Release ID: 386799
Qty Released: Unknown
Date Released: Unknown
Update Date: 03/09/2006
Update By: SFORTUN
Substance Code: 7440-50-8
Substance Name: COPPER
Substance Abbrev.: Not reported
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8464
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319296
Sub Alias Name: CU
Comment ID: 305019
Release Code: Media Contamination Footnote
Release Comments: The Federal recommended freshwater Concentration Maximum Criterion (CMC)(acute aquatic toxicity) for copper is 13 ppb.
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 348657
Feature Id: 0
Hazard Release Id: 386799
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 04/24/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 88.00
Sample Comment: 88 ppb in groundwater at temporary well B-1.
Last Update By: SFORTUN
Update Date: 03/09/2006
Decode for MediumID: Groundwater

Substance ID.: 121671
Haz Release ID: 386800
Qty Released: Unknown
Date Released: Unknown
Update Date: 03/09/2006
Update By: SFORTUN
Substance Code: 7440-47-3
Substance Name: CHROMIUM

ALBERS MILL PROPERTY (Continued) **S108663486**

Substance Abbrev.: Not reported
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318145
Sub Alias Name: CHROMIUM, INORGANIC
Substance Alias ID: 319294
Sub Alias Name: CHROMIUM, TOTAL
Comment ID: 305020
Release Code: Media Contamination Footnote
Release Comments: The Federal recommended freshwater Concentration Maximum Criterion (CMC)(acute aquatic toxicity) for Cr+6 is 13 ppb; for Cr+3 it is 570 ppb.
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 348658
Feature Id: 0
Hazard Release Id: 386800
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 04/24/2005
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 42.00
Sample Comment: 42 ppb in groundwater at temporary well B-3
Last Update By: SFORTUN
Update Date: 03/09/2006
Decode for MediumID: Groundwater

Substance ID.: 121679
Haz Release ID: 386801
Qty Released: Unknown
Date Released: Unknown
Update Date: 03/09/2006
Update By: SFORTUN
Substance Code: 7440-66-6
Substance Name: ZINC
Substance Abbrev.: Not reported
Substance Alias ID: 319302
Sub Alias Name: ZN
Comment ID: 305021
Release Code: Media Contamination Footnote
Release Comments: The Federal recommended freshwater CMC for zinc is 120 ppb.
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 348659
Feature Id: 0

ALBERS MILL PROPERTY (Continued) **S108663486**

Hazard Release Id: 386801
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 65.00
Sample Comment: 65 ppb in groundwater at temporary well B-1
Last Update By: SFORTUN
Update Date: 03/09/2006
Decode for MediumID: Groundwater

Substance ID.: 122015
Haz Release ID: 386802
Qty Released: Unknown
Date Released: Unknown
Update Date: 03/09/2006
Update By: SFORTUN
Substance Code: ECD282
Substance Name: OIL - WASTE
Substance Abbrev.: Not reported
Substance Category ID: 8541
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8541
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 348660
Feature Id: 0
Hazard Release Id: 386802
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/24/2003
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 905.00
Sample Comment: 905 ppm heavy oil (heavier than 30-weight motor oil) in soils at pushprobe boring P-12 at 8-12 feet bgs
Last Update By: SFORTUN
Update Date: 03/09/2006
Decode for MediumID: Soil

Narrative:
NARR ID: 5747930

ALBERS MILL PROPERTY (Continued) **S108663486**

NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 03/09/2006
Updated By: SFORTUN
Updated Date: 04/10/2006
Decode for NarcdID: Site Contacts
NARR Comments: Site Owner: Roy P. David, Authorized Representative, Albers Mill Building Partnership, 805 SW Broadway, Suite 1900, Portland, OR 97205 (503-224-6148) Registrants for Alber Mill Building Partnership: 1) Bill Naito Company 2) WMC Title Holding Company BH Services Co., Inc., Registered Agent, Bill Naito Company, 805 SW Broadway, Suite 1900, Portland, OR 97205 Bill Naito Company, attn: David P. Roy, 805 SW Broadway, Suite 1900, Portland, OR 97205 (503-224-6148) Lawrence M. Naito, President, Bill Naito Company, 2701 NW Vaughn Str, #710, Portland, OR 97210 (503-488-5000) David Shelton, Registered Agent, WMC Title Holding Company, 1200 NW Naito Parkway, #230, Portland, OR 97209 Warren Banks, President, WMC Title Holding Company, 825 NE 20th Avenue, #220, Portland, OR 97232

NARR ID: 5747931
NARR Code: Contamination
Created By: SFORTUN
Created Date: 03/09/2006
Updated By: SFORTUN
Updated Date: 04/07/2006
Decode for NarcdID: Contamination
NARR Comments: Soils containing limited heavy petroleum contamination (3-4 cubic yards containing up to 636 ppm of PS-300) were left in place along the southeast foundation of the Albers Mill Building following a 1989 underground storage tank (UST) removal. Low level petroleum contamination (172 ppm) was also detected when a 1,000 gallon PS-300 UST was decommissioned in place at the northwest corner of the Albers Mill Building in 1988. A pushprobe boring (P-12) advanced about 135 feet northwest of the Albers Mill Building in July 2003 encountered soils with a heavy oil concentration of 905 ppm at 8-12 feet below ground surface (bgs). The full vertical and horizontal extent of this contamination was not defined. The boring was located about 200 feet north of the heating oil tank decommissioned at the northwest corner of the mill building in 1988, and appears unlikely to be related to the minor tank release detected in 1988. Groundwater sampled from a temporary well (B-1) near the middle of the site's southwestern property line in April 2005 contained copper at a concentration of 88 ppb. The Federal Recommended freshwater Contaminant Maximum Criterion for copper is 13 ppb. Various borings advanced on the northwestern two-thirds of the site encountered fill debris, including bricks, concrete, wood, metal, glass, and organics, at depths ranging from 0- to 25 feet bgs (borings B-5 from August 1988, and B-3 through B-8 from February 2004; Figure 11)(pushprobes P-6 and P-10 through P13 from July 2003; Figure 12) . Similar debris was encountered in fill on the Waterfront Pearl Condominium Construction site (ECSI #4535), just beyond the Albers Mill Property's northwestern property line. Elevated concentrations of metals and polynuclear aromatic hydrocarbons (PAHs) appear to be associated with debris buried on the Waterfront Pearl site. Soils initially excavated just northwest of the Albers Mill Property contained concentrations of PAHs that exceed residential soil Preliminary Remediation Goals (PRGs) (see Figures 9 and 10). Elevated concentrations of arsenic (up to 16 ppm) were also

ALBERS MILL PROPERTY (Continued) **S108663486**

detected in some of the initially-excavated soils. Subsurface soil samples collected across the two Waterfront Pearl tax lots in October 2005 through February 2006 contained concentrations of copper, lead, mercury, and nickel above local background concentrations, although lead was the only metal detected at a concentration that exceeded residential soil PRGs; lead concentrations exceeded the residential soil PRG in less than 3-percent of the samples, though. Like the neighboring Waterfront Pearl Condominium Construction site, buried debris has frequently been encountered in subsurface at the Albers Mills site. Contaminants have also been detected in the Albers Mill site's subsurface soils and groundwater, although it is not known if the character and extent of contamination is similar to that found at the nearby Waterfront Pearl or Union Station Parcel A North sites. Subsurface soils and groundwater at the nearby Union Station Parcel A North site (ECSI #1962) are contaminated with elevated concentrations of petroleum (PAHs) and metals; PCBs are also present in subsurface soils at the Union Station Parcel A North site.

NARR ID: 5747939
NARR Code: Disposals
Created By: SFORTUN
Created Date: 03/10/2006
Updated By: SFORTUN
Updated Date: 03/10/2006
Decode for NarcdID: Disposals
NARR Comments: The concrete-steel bow sections from salvaged Liberty ships were incorporated in the fill material on Tax Lot 400, just beyond the Albers Mill Property's northwestern property line. It is unclear if Liberty ship hulls are also buried on the Albers Mill Property. There may be potential contaminants associated with these hulls, such as asbestos or PCBs. There is no indication that Liberty shipp hulls recovered from Tax Lot 400 were examined for potential contamination.

NARR ID: 5747940
NARR Code: Data Sources
Created By: SFORTUN
Created Date: 03/10/2006
Updated By: SFORTUN
Updated Date: 04/04/2006
Decode for NarcdID: Data Sources
NARR Comments: Site Screening, Albers Mill Property, prepared by Geotechnical Resources, Inc., for Norcrest China Co., November 11, 1988 (Appendix B to February 2003 River Queen Redevelopment Project Phase I Report). Preliminary Site Assessment, River Queen Restaurant Site, prepared by GRI Geotechnical & Environmental Consultants, for Norcrest China Co., November 8, 1991 (Appendix B to February 2003 River Queen Redevelopment Project Phase I Report). Seismic and Preliminary Foundation Consultation, River Queen Site, prepared by GRI Geotechnical & Environmental Consultants, for Ankrom Moisan Associated Architects, November 22, 2002. Proposal for Phase I Environmental Site Assessment, River Queen Project, prepared by GRI Geotechnical & Environmental Consultants, for Tonkon Torp, LLC, December 10, 2002 (Appendix A to February 2003 River Queen Redevelopment Project Phase I Report). Phase I Environmental Site Assessment, River Queen Redevelopment Project, prepared by GRI Geotechnical & Environmental Consultants, for Tonkon Torp, LLC, February 5, 2003. Phase II Environmental Site Assessment, River Queen

ALBERS MILL PROPERTY (Continued) **S108663486**

Project, prepared by GRI Geotechnical & Environmental Consultants, for Tonkon Torp, LLC, August 12, 2004. Waterfront Pearl, Supplemental Groundwater Test Results, FAX report prepared by GRI Geotechnical & Environmental Consultants, for Otak, Inc., February 3, 2005. Geotechnical Investigation, Waterfront Pearl Project, prepared by GRI Geotechnical & Environmental Consultants, for Pemcor, February 24, 2005. Portland Waterfront Pearl, FAX report prepared by GRI Geotechnical & Environmental Consultants, for Otak, Inc., May 4, 2005. Additional Water and Soil Environmental Test Results, FAX report prepared by GRI Geotechnical & Environmental Consultants, for Otak, Inc., May 5, 2005. Responses to Site Development Checklist, Waterfront Pearl Project, prepared by GRI Geotechnical & Environmental Consultants, for City of Portland, Bureau of Development Services, May 20, 2005. Work Plan for Site Closure, Waterfront Pearl Site (ECSI #4535), prepared by EVREN Northwest, Inc., for Waterfront Pearl Limited Partnership, March 7, 2006. Comprehensive Soil and Groundwater RI Report, Union Station, Parcel A North (ECSI #1962), prepared by AGRA Earth & Environmental, Inc., for Portland Development Commission, February 1998.

NARR ID: 5747902
NARR Code: General Site Description
Created By: SFORTUN
Created Date: 03/07/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: General Site Description
NARR Comments: The 5-story Albers Mill Building, a former cereal and grain mill listed on the National Register of Historic Places, is located on the southeastern third of the site, and is now used as a commercial office building. The northwestern two-thirds of the site is occupied by a partially-landscaped, asphalt-paved, pay parking lot associated with the Albers Mill Building. The Willamette River forms the site s northeastern boundary; NW Naito Parkway forms the site s southwestern boundary. The Waterfront Pearl Condominium Construction site (ECSI #4535) lies along the site s northwestern property line; an elevated section of the Broadway Bridge overlooks the site at its southern boundary. The McCormick Pier Condominiums are located along the south side of the Broadway Bridge. The Union Station Agricultural Marketing Center site (also known as Union Station Parcel A North) (ECSI #1962) is located directly across NW Naito Parkway, southwest of the site. The upstream boundary of Portland Harbor federal superfund cleanup site (ECSI #2068) lies 1.9 miles downstream from the site.

NARR ID: 5747941
NARR Code: Hazardous Substance/Waste Types
Created By: SFORTUN
Created Date: 03/10/2006
Updated By: SFORTUN
Updated Date: 03/10/2006
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum (as heavy oil) in subsurface soils and metals in groundwater (predominantly copper, but also chromium and zinc). Potential PAHs, arsenic, lead, mercury, PCBs, asbestos in soils and/or groundwater.

NARR ID: 5747943

ALBERS MILL PROPERTY (Continued) **S108663486**

NARR Code: Project Issues Summary
Created By: SFORTUN
Created Date: 03/10/2006
Updated By: MMCCLIN
Updated Date: 10/23/2014
Decode for NarcdID: Project Issues Summary
NARR Comments: There has been very limited chemical characterization of subsurface fill on the northwestern two-thirds of this site. Debris encountered in the subsurface appears very similar to that encountered on the neighboring Waterfront Pearl Condominium Construction site. Subsurface soils excavated from the Waterfront Pearl site contained concentrations of PAHs and lead that exceeded residential soil PRGs. Further investigation is needed to characterize potential contamination in fill on the northwestern two-thirds of the Albers Mill Property. A groundwater sample collected along the southwestern edge of the Albers Mill Property contained a concentration of copper that exceeded the Federal recommended freshwater CMC (acute aquatic toxicity) for copper. Groundwater with elevated copper concentrations could represent a threat to aquatic life in the Willamette River. Detectable chromium and zinc were also present in the groundwater. However, groundwater metals concentrations were lower near the center of the property. It is possible that the site's groundwater contamination originated at the nearby (upgradient) Union Station Parcel A North site, so it may be premature at this time to propose adding the Albers Mill Property to the Confirmed Release List or Inventory based on existing groundwater analyses - the site may simply lie within a local groundwater contamination area.

NARR ID: 5747950
NARR Code: Land Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Local land use is changing from commercial to residential use. The site is currently used for commercial offices and as a pay parking lot. However, the neighboring property to the northwest (Waterfront Pearl Condominium Construction Site) is being redeveloped for condominiums, and there have been plans within the past year to also redevelop the northwestern two-third of the Albers Mill Property for condominiums.

NARR ID: 5747901
NARR Code: Site Location
Created By: SFORTUN
Created Date: 03/07/2006
Updated By: SFORTUN
Updated Date: 03/07/2006
Decode for NarcdID: Site Location
NARR Comments: 1200 NW Naito Parkway (Tax Lot 100; T1N/R1E-S34BA), Portland, OR 97209 Located in Northwest Portland, between NW Front Avenue / NW Naito Parkway on the southwest, and the Willamette River on the northeast. The Broadway Bridge is located along the site's southeastern boundary; the Waterfront Pearl Condominium Construction site (ECSI #4535) is located along the site's northwestern boundary.

ALBERS MILL PROPERTY (Continued) **S108663486**

NARR ID: 5747951
NARR Code: Manner of Release
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 04/04/2006
Decode for NarcdID: Manner of Release
NARR Comments: Subsurface contamination at the site may be attributable to historic fill. Some or all of the site's groundwater contamination might originate from the upgradient Union Station Parcel A North site (see Comprehensive Soil and Groundwater RI Report, Union Station, Parcel A North, prepared for Portland Developm,ent Commission, by AGRA Earth & Environmental, Inc., February 1998), although further investigation is needed to verify that groundwater contamination originated off-site.

NARR ID: 5747952
NARR Code: Media Contamination
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: Media Contamination
NARR Comments: Subsurface soils and groundwater.

NARR ID: 5747953
NARR Code: Site Ownership
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: Site Ownership
NARR Comments: Site Owner: Roy P. David, Authorized Representative, Albers Mill Building Partnership, 805 SW Broadway, Suite 1900, Portland, OR 97205 (503-224-6148) Registrants for Alber Mill Building Partnership: 1) Bill Naito Company 2) WMC Title Holding Company

NARR ID: 5747954
NARR Code: Project Activity Status
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: Project Activity Status
NARR Comments: The site is currently being evaluated by Site Assessment.

NARR ID: 5747955
NARR Code: Pathways Other Hazards
Created By: SFORTUN
Created Date: 03/14/2006
Updated By: SFORTUN
Updated Date: 04/04/2006
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Subsurface soil and groundwater contamination is present beneath a portion of the site that is largely covered by an asphalt-paved parking lot. Contaminated groundwater on this portion of the site could eventually discharge to the Willamette River, and adversely

ALBERS MILL PROPERTY (Continued) **S108663486**

affect aqauatic life within the river. A stormwater sewer line that discharges to the Willamette River is located along the northwest side of the Albers Mill building. The stormwater line and bedding could act as a preferential migration pathway for contaminated groundwater to reach the river. The site's subsurface contamination could also represent a potential human health threat to future utility trench workers or future construction workers if the property is redeveloped for condominium construction. The planned Waterfront Pearl condominiums will have underground parking structures that will likely require a long term groundwater dewatering system. Dewatering activities at the Waterfront Pearl site could intercept or otherwise alter groundwater contamination at the Albers Mill Property, or a potential groundwater contamination plume originating at the nearby Union Station Parcel A North site. Further investigation is needed to define the source and extent of groundwater contamination beneath the Albers Mill Property.

NARR ID: 5748011
NARR Code: Substances of Concern
Created By: SFORTUN
Created Date: 03/28/2006
Updated By: SFORTUN
Updated Date: 03/28/2006
Decode for NarcdID: Substances of Concern
NARR Comments: Metals and petroleum hydrocarbons.

NARR ID: 5748010
NARR Code: Health Threats
Created By: SFORTUN
Created Date: 03/28/2006
Updated By: SFORTUN
Updated Date: 03/28/2006
Decode for NarcdID: Health Threats
NARR Comments: The parcel immediately north of the Albers Mill site is being redeveloped for residential use; residential redevelopment has also been proposed for the northwestern two-thirds of the Albers Mill site. Contaminated subsurface soils exposed during potential future excavating activities at the Albers Mill site could represent a potential health threat to residents, as well as to future construction workers and utility trench workers. Contaminated groundwater at the site could represent a potential ecological threat to freshwater aquatic life in the Willamette River.

NARR ID: 5748009
NARR Code: Water Use (Current/Reasonably Likely)
Created By: SFORTUN
Created Date: 03/28/2006
Updated By: SFORTUN
Updated Date: 03/28/2006
Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: Oregon Water Resources Department (OWRD) has records for five industrial wells within 0.5 mile south of the site. The nearest is a well owned by SP&S Railroad, located about 500 feet southeast of the site, although OWRD records indicate that the well was buried without decommissioning. Three industrial wells are located along NW Hoyt Street, about 0.25 mile south of the site. Fifteen dewatering wells are located near NW 12th and Marshall Street, between 0.25- and 0.5

ALBERS MILL PROPERTY (Continued) **S108663486**

mile west of the site. Day Lite Meat Market installed a 180-foot deep well just over 0.5 mile south of thwe site, although its well log indicates that the well is not used. The nearest well specified for domestic use was constructed about 0.75 mile south of the site in 1911 (located near SW 5th and Washington). It is not known if the well is still being used. It appears very likely that dewatering wells will be installed at the Waterfron Pearl Condominium site immediately north of the site.

NARR ID: 5747942
NARR Code: Institutional Control
Created By: SFORTUN
Created Date: 03/10/2006
Updated By: SFORTUN
Updated Date: 03/10/2006
Decode for NarcdID: Institutional Control
NARR Comments: Direct contact with any subsurface contamination is quite limited under the site's current configuration: the Albers Mill Building occupies the southeastern one-third of the site; the northwestern two-thirds of the site is predominantly covered by an asphalt-paved parking lot. However, limited landscaping is present on the paved parking area, along the parking area's southwestern edge, and as a greenspace buffer between the parking area and river. Future redevelopment of the site could expose construction workers to potential uncharacterized subsurface contamination. A municipal stormsewer passes along the northwestern edge of the Albers Mill Building, from NW Naito Parkway and the Willamette River. There are four underground municipal water supply lines associated with the site, originating along NW Naito Parkway: 1) a water line passes along the full length of southeastern side of the Albers Mill Building, 2) one enters the central southwestern foundation of the Albers Mill Building, 3) one extends about 50 feet onto the property near the center of the southwestern property line, and 4) one appears to extend about 50 feet onto the property about 50 feet south of the property's northwest corner. Subsurface contamination could represent a potential human health risk for future utility trench workers.

NARR ID: 5747903
NARR Code: Site History
Created By: SFORTUN
Created Date: 03/07/2006
Updated By: SFORTUN
Updated Date: 03/14/2006
Decode for NarcdID: Site History
NARR Comments: The Albers Mill Company at one time operated the largest cereal and grain manufacturing company on the Pacific Coast. The Portland mill was originally constructed in 1909-1911. At least as far back as 1889, the site was occupied by docks and grain storage warehouses that were constructed on pilings. The warehousing was demolished in 1965-1966. Addition of 5-30 foot of fill to the northwest end of the site was begun in 1966. The fill may have included concrete-steel bow sections of scrapped Liberty ships. Aerial photographs indicate that additional fill may have been placed along the river and northwest property line sometime after 1980. The mill itself was renovated in 1989 for use as a commercial office building. A 1,000 gallon PS300 fuel oil storage tank installed at the northwest corner of the mill building in 1963 was decommissioned in December 1988 by filling with

ALBERS MILL PROPERTY (Continued) **S108663486**

cement grout. Soil with low-level petroleum-contamination (172 ppm) near the tank was left in place. Six other USTs (one 12,000 gallon, four 1,000 gallon, and one 500 gallon) installed beneath the Broadway Bridge in 1950 were removed by the Port of Portland in January 1989. Approximately 1,200 cubic yards of petroleum-contaminated soil was removed; 3-4 cubic yards of soil containing up to 636 ppm petroleum was left in place along the Albers Mill Building foundation. The northwestern two-thirds of the site was paved with asphalt, and is used as parking for the Albers Mill Building, as well as a pay-parking lot. In October 2005, excavation was begun on property adjoining the northwest edge of the site for construction of the Waterfront Pearl Condominiums. Design plans originally specified construction of four 10-story buildings on undeveloped portions of three adjoining tax lots. Two buildings were to be constructed on the two northwestern tax lots (Tax Lots 300 and 400), owned by the H. Naito Corp; two were to be constructed on the parking lot area on the northwestern two-thirds of Tax Lot 100 (the Albers Mill Property), owned by the Albers Mill Building Partnership. However, a sales agreement between the two property owners had not been reached by May 2005, so construction proceeded only on the two northwestern buildings. Construction plans at the Albers Mill Property remain unclear at this time.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 02/22/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/22/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 04/10/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/28/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: 04/10/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/10/2006

ALBERS MILL PROPERTY (Continued) **S108663486**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9502
Region: Northwestern Region
Complete Date: 04/10/2006
Rank Value: 92
Cleanup Flag: False
Created Date: 04/10/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation recommended (RI)
Further Action: Medium
Comments: Not reported

Action ID: 9521
Region: Northwestern Region
Complete Date: 04/10/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/10/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Operations:

Operation Id: 135150
Operation Status: Active
Common Name: Albers Mill Building
Yrs of Operation: 1989 - present
Comments: Former cereal and grain and mill renovated for use as commercial office space - international commerce and trade.
Updated Date: 03/09/2006
Updated By: SFORTUN
Decode for OpstatID: Active

Operation Id: 135151
Operation Status: Inactive
Common Name: Albers Brothers Mills Co. (Carnation-Albers Co.)
Yrs of Operation: 1909 through at least 1960s
Comments: Cereal and Grain mill.
Updated Date: 03/09/2006
Updated By: SFORTUN
Decode for OpstatID: Inactive

Operation Id: 135152
Operation Status: Inactive

ALBERS MILL PROPERTY (Continued) **S108663486**

Common Name:	Flanders Greenwich Warehouses
Yrs of Operation:	Before 1889 through at least 1901
Comments:	Grain storage warehouses
Updated Date:	03/09/2006
Updated By:	SFORTUN
Decode for OpstatID:	Inactive

Operation Id:	135153
Operation Status:	Inactive
Common Name:	Interstate Terminals
Yrs of Operation:	1909? through mid-1960
Comments:	Warehouses and docks (Albers Docks #1, #2, and #3) on north side of Albers Mill. Included steamship docks, along with warehousing for Carnation Grocery Products, Oregon Pulp and Paper Co., Leslie-California Salt Co., Morton Salt Co.
Updated Date:	03/09/2006
Updated By:	SFORTUN
Decode for OpstatID:	Inactive

Operation Id:	135154
Operation Status:	Inactive
Common Name:	McCormick Terminal Dock No. 2
Yrs of Operation:	1930-1945
Comments:	Not reported
Updated Date:	03/09/2006
Updated By:	SFORTUN
Decode for OpstatID:	Inactive

R65
WNW
1/4-1/2
0.287 mi.
1517 ft.

HEATING OIL TANK **OR LUST** **S125317614**
1700 NW THURMAN ST **N/A**
PORTLAND, OR 97209

Site 2 of 2 in cluster R

Relative: Higher
Actual: 41 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1700 NW THURMAN ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-95-0261
Cleanup Received Date:	10/03/1995
Cleanup Start Date:	10/03/1995
Cleanup Complete Date:	**06/05/1996**
Decode for Region:	**North West Region**

S66
SW
1/4-1/2
0.288 mi.
1522 ft.

MOVING SPACES LLC **OR LUST** **S109204599**
1211 NW 17TH AVE **N/A**
PORTLAND, OR 97209

Site 4 of 4 in cluster S

Relative: Higher
Actual: 54 ft.

LUST:

Name:	MOVING SPACES LLC
Address:	1211 NW 17TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region

MOVING SPACES LLC (Continued) **S109204599**

Facility ID: 26-08-0732
Cleanup Received Date: 06/19/2008
Cleanup Start Date: 06/19/2008
Cleanup Complete Date: 10/25/2010
Decode for Region: North West Region

V67 **HOYT STREET RAILYARD - PEARL BLOCK** **OR CRL** **S109051805**
SSE **900 NW LOVEJOY ST.** **OR ECSI** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR ENG CONTROLS**
0.289 mi. **OR INST CONTROL**
1528 ft. **Site 1 of 3 in cluster V** **OR VCP**

Relative: Higher

Actual: 38 ft.

CRL:
Name: HOYT STREET RAILYARD - PEARL BLOCK
Address: 900 NW LOVEJOY ST.
City,State,Zip: PORTLAND, OR 97209
Facility ID: 4960
Location ID: 106723
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.5297 / -122.6808

ECSI:
Name: HOYT STREET RAILYARD - PEARL BLOCK
Address: 900 NW LOVEJOY ST.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 4960
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 832
Investigation: Listed on the CRL/Inventory
FACA ID: 106723
Further Action: 0
Lat/Long (dms): 45 31 46.90 / -122 40 50.90
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BC
Tax Lots: 300 & 400
Size: 1.17 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 12/23/2015
Created Date: 03/21/2008
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Owner, operator or other party under state or federal authority
Alias Name: Hoyt Street Train Yard - Parcel 1

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Alias Name: Pearl Building

Narrative:

NARR ID: 5750580
NARR Code: Contamination
Created By: MGREENB
Created Date: 06/18/2008
Updated By: MGREENB
Updated Date: 07/15/2008
Decode for NarcdID: Contamination
NARR Comments: Petroleum hydrocarbons and PAHs in soils and groundwater. Lead in soils.

NARR ID: 5750581
NARR Code: General Site Description
Created By: MGREENB
Created Date: 06/18/2008
Updated By: KDANA
Updated Date: 01/21/2016
Decode for NarcdID: General Site Description
NARR Comments: The site was part of the former Hoyt Street Railyard (ECSI #1080). The Consent Order for the Railyard states that the Pearl Block is not subject to its authority, but that upon completion of work DEQ would determine whether measures taken achieved a level of protection consistent with the Record of Decision for the Hoyt Street Railyard.

NARR ID: 5750582
NARR Code: Hazardous Substance/Waste Types
Created By: MGREENB
Created Date: 06/18/2008
Updated By: MGREENB
Updated Date: 06/18/2008
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: PAHs, lead, petroleum hydrocarbons.

NARR ID: 5755923
NARR Code: Site Location
Created By: KDANA
Created Date: 12/23/2015
Updated By: KDANA
Updated Date: 12/23/2015
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Lovejoy Street to the north, NW Kearney Street to the south, NW 9th Avenue to the east, and NW 10th Avenue to the west.

NARR ID: 5750583
NARR Code: Manner of Release
Created By: MGREENB
Created Date: 06/18/2008
Updated By: MGREENB
Updated Date: 06/18/2008
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of release unknown.

NARR ID: 5750584
NARR Code: Media Contamination
Created By: MGREENB

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Created Date: 06/18/2008
Updated By: MGREENB
Updated Date: 06/18/2008
Decode for NarcdID: Media Contamination
NARR Comments: Soil, groundwater, and surface water (Tanner Creek storm sewer system)
Not reported

NARR ID: 5750585
NARR Code: Pathways Other Hazards
Created By: MGREENB
Created Date: 06/18/2008
Updated By: KDANA
Updated Date: 01/21/2016
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Site capped by building and sidewalks - no direct contaminant exposure pathways present.

NARR ID: 5750586
NARR Code: Remedial Action
Created By: MGREENB
Created Date: 06/18/2008
Updated By: KDANA
Updated Date: 01/21/2016
Decode for NarcdID: Remedial Action
NARR Comments: (07/16/2008 MJG/VCP) Between 2000 and 2003, as part of construction activities, soils at the site were excavated down to 12 ft bgs. Approximately 3,732 tons of soils were removed from the site and thermally treated at TPS Technologies in Portland. Approximately 6,133 tons of soils were removed and disposed of at the Hillsboro Landfill. A building with sub-grade parking, commercial ground floor use and residential use above has been constructed on the site and acts as a cap for residual contaminated soils at the site. An Easement and Equitable Servitude was recorded on the property deed requiring maintenance of the cap, annual monitoring and reporting on the status of the cap, and prohibiting future beneficial use of groundwater at the site. Due to the site requiring an EES it was required to be added to the Confirmed Release List & Inventory.

NARR ID: 5750587
NARR Code: Health Threats
Created By: MGREENB
Created Date: 06/18/2008
Updated By: KDANA
Updated Date: 01/21/2016
Decode for NarcdID: Health Threats
NARR Comments: Removal of contaminated soils to 12 ft bgs and capping the site with a building have eliminated most routes of exposure. An Easement and Equitable Servitude is in place to limit potential direct contact with residual contaminated soils by future construction and excavation workers.

NARR ID: 5750588
NARR Code: Water Use (Current/Reasonably Likely)
Created By: MGREENB
Created Date: 06/18/2008
Updated By: MGREENB
Updated Date: 06/18/2008

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: Not likely and restricted by the Easement and Equitable Servitude for the site.

Site Control:
Site Control #: 535
Control Number: 35
Begin Date: 06/26/2008
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: M. Greenburg, DEQ
Last Reviewed Date: 06/26/2008
Last Update By: GWISTAR
Last Updated Date: 02/05/2009
Site Comment: A building with sub-grade parking, commercial ground floor use, and residential use above has been constructed on the site and acts as an engineered cap for the site.

Site Control #: 517
Control Number: 3
Begin Date: 06/26/2008
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Mike Greenburg
Last Reviewed Date: 06/26/2008
Last Update By: GWISTAR
Last Updated Date: 02/05/2009
Site Comment: Document fomalizing need to maintain engineered cap over contaminated soil (i.e., the building).

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/21/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/21/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: 0
Complete Date: 01/01/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/15/2008
Decode for AgencyID: Other
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Action ID: 9411
Region: Northwestern Region
Complete Date: 07/16/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/16/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 10/01/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/01/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 07/20/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/01/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 07/20/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/01/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9439

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Region: Northwestern Region
Complete Date: 10/01/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/01/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135944
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 12/30/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199375
SIC Code: 4011
Created By: KDANA
Created Date: 12/30/2015

Enginering Control:
Name: HOYT STREET RAILYARD - PEARL BLOCK
Address: 900 NW LOVEJOY ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 535
Site Id: 4960
Control Sequence #: 35
Begin Date: 06/26/2008
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: M. Greenburg, DEQ
Last Review Date: 06/26/2008
Last Updated By: GWISTAR
Last Updated Date: 02/05/2009
Group Sequence #: 9
Control Code: BD
Control Description: Building(s)
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: A building with sub-grade parking, commercial ground floor use, and residential use above has been constructed on the site and acts as an engineered cap for the site.

Institutional Control:
Name: HOYT STREET RAILYARD - PEARL BLOCK
Address: 900 NW LOVEJOY ST.
City,State,Zip: PORTLAND, OR 97209

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Site Control Sequence #:	517
Site Id:	4960
Control Sequence #:	3
Begin Date:	06/26/2008
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	Mike Greenburg
Last Review Date:	06/26/2008
Last Updated By:	GWISTAR
Last Updated Date:	02/05/2009
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Document fomalizing need to maintain engineered cap over contaminated soil (i.e., the building).

VCS:

Name:	HOYT STREET RAILYARD - PEARL BLOCK
Address:	900 NW LOVEJOY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	4960
Facility Size:	1.17 acres
Action:	No Further Action (Conditional)
Start Date:	07/16/2008
End Date:	07/16/2008
Program:	VCP
Latitude:	45.5297
Longitude:	-122.6808

Name:	HOYT STREET RAILYARD - PEARL BLOCK
Address:	900 NW LOVEJOY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	4960
Facility Size:	1.17 acres
Action:	Facility placed on Confirmed Release List
Start Date:	10/01/2009
End Date:	10/01/2009
Program:	VCP
Latitude:	45.5297
Longitude:	-122.6808

Name:	HOYT STREET RAILYARD - PEARL BLOCK
Address:	900 NW LOVEJOY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	4960
Facility Size:	1.17 acres
Action:	Facility proposed for Confirmed Release List
Start Date:	07/20/2009
End Date:	07/20/2009
Program:	VCP
Latitude:	45.5297
Longitude:	-122.6808

HOYT STREET RAILYARD - PEARL BLOCK (Continued) **S109051805**

Name:	HOYT STREET RAILYARD - PEARL BLOCK
Address:	900 NW LOVEJOY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	4960
Facility Size:	1.17 acres
Action:	Facility proposed for Inventory
Start Date:	07/20/2009
End Date:	07/20/2009
Program:	VCP
Latitude:	45.5297
Longitude:	-122.6808

Name:	HOYT STREET RAILYARD - PEARL BLOCK
Address:	900 NW LOVEJOY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	4960
Facility Size:	1.17 acres
Action:	Facility placed on Inventory
Start Date:	10/01/2009
End Date:	10/01/2009
Program:	VCP
Latitude:	45.5297
Longitude:	-122.6808

T68 **ALBER'S MILL PROPERTY #2** **OR LUST** **S103840022**
ESE **1060 NW FRONT** **N/A**
1/4-1/2 **PORTLAND, OR 97023**
0.296 mi.
1562 ft. **Site 3 of 3 in cluster T**

Relative: LUST:
Lower

Name:	ALBER'S MILL PROPERTY #2
Address:	1060 NW FRONT
City,State,Zip:	PORTLAND, OR 97023
Region:	North Western Region
Facility ID:	26-88-0110
Cleanup Received Date:	12/13/1988
Cleanup Start Date:	12/02/1988
Cleanup Complete Date:	**12/28/1988**
Decode for Region:	**North West Region**

Actual:
28 ft.

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69 **RIVERTEC PROPERTY** **OR ECSI** **S105614520**
South **1233 NW KEARNEY ST.** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.297 mi.
1567 ft.

Relative: ECSI:
Higher

Name:	RIVERTEC PROPERTY
Address:	1233 NW KEARNEY ST.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	3067
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0

Actual:
42 ft.

RIVERTEC PROPERTY (Continued) **S105614520**

Investigation: Suspect
FACA ID: 41248
Further Action: 260
Lat/Long (dms): 45 31 47.30 / -122 41 1.70
County Code: 26.00
Score Value: 53
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 33
Qtr Section: AD
Tax Lots: 100
Size: 0.92 acre
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 11/03/2015
Created Date: 05/14/2001
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Low
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Bunker Hill Co.
Alias Name: EB Partners, LLC
Alias Name: Lead Smelter Site

Narrative:
NARR ID: 5741384
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (11/8/01 GMW/SAS) This is one of three sites in Oregon that a researcher at George Mason University identified as a former lead-smelting facility. The U.S. EPA requested that DEQ evaluate these three sites (ECSI #3066, 3067, and 3090), and determine whether past industrial operations might have left behind lead contamination that poses threats to human health or the environment. (1/8/02 CJB/SAS) The site has been occupied for many years by a single large 2-3 story building, which presently functions as the RiverTec office complex, with eateries on the ground floor.

NARR ID: 5741385
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Lead & TPH

NARR ID: 5741386
NARR Code: Manner of Release

RIVERTEC PROPERTY (Continued) **S105614520**

Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: The manner and time of release are not known.

NARR ID: 5741387
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: There do not appear to be significant direct-contact exposure pathways for current occupants, unless subsurface excavation occurs at the site. The potential presence of subsurface contaminants could well create an exposure risk to trench/utility workers. There are no open surface water bodies in the immediate vicinity of the site; however there is a possibility that either sanitary or storm sewers may have carried site-related contaminants to the Willamette River. However, since there is no evidence of a potentially hazardous release at this site, DEQ believes the surface water pathway is of minimal concern. The possibility for soils and/or groundwater contamination are pathways of potential concern.

NARR ID: 5741388
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (1/29/2002 CJB/SAS) There remains some concern for possible exposure of subsurface workers to any contaminants that may have been released, but for which no documentation was found. Possible release of petroleum hydrocarbons at a subsidence area that may have been a former UST. Recommend further investigation of subsidence area to rule out any suspicion of release.

NARR ID: 5749883
NARR Code: 1922
Created By: GWISTAR
Created Date: 11/20/2007
Updated By: GWISTAR
Updated Date: 11/20/2007
Decode for NarcdID: Current Site Summary Statement
NARR Comments: (January 2002) DEQ believes that this site poses a relatively low threat for possible lead exposure. During the course of DEQ's evaluation, no direct information was obtained to suggest that metals-related site contamination occurred on these premises. Recent substantial renovations of the building s interior, re-surfacing of surrounding pavement, and testimony of representatives of on-site businesses, indicate that there is little potential for human or environmental exposure to hazardous materials that may be associated with this site. There remains some concern for possible exposure of subsurface workers to any contaminants that may have been released,

RIVERTEC PROPERTY (Continued) **S105614520**

but for which no documentation was found. The possible release of petroleum hydrocarbons at the <quot>subsidence area<quot> was evaluated in a preliminary manner by DEQ s UST Program. A more formal UST follow-up investigation may be warranted. This site is a low priority for further state investigation.

Administrative Action:
Action ID: 9459
Region: Northwestern Region
Complete Date: 01/08/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: 01/08/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9495
Region: Northwestern Region
Complete Date: 01/14/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Other recommendation
Further Action: Low
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 05/14/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action

RIVERTEC PROPERTY (Continued) **S105614520**

Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 05/14/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 134258
Operation Status: Active
Common Name: EB Partners Property
Yrs of Operation: Property transfer 6/24/99
Comments: Not reported
Updated Date: 05/14/2001
Updated By: jmw
Decode for OpstatID: Active

W70 **HEATING OIL TANK** **OR LUST** **S118140775**
SW **1033-1039 NW 16TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.305 mi.
1610 ft. **Site 1 of 2 in cluster W**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
53 ft. Address: 1033-1039 NW 16TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-15-0865
Cleanup Received Date: 06/24/2015
Cleanup Start Date: Not reported
Cleanup Complete Date: 09/09/2015
Decode for Region: North West Region

X71 **PRO TRUCK LINES** **OR LUST** **U000432406**
WSW **1721 NW NORTHRUP** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.305 mi.
1611 ft. **Site 1 of 4 in cluster X**

Relative: LUST:
Higher
Actual: Name: PRO TRUCK LINES
55 ft. Address: 1721 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region

PRO TRUCK LINES (Continued) **U000432406**

Facility ID: 26-93-0140
Cleanup Received Date: 08/20/1993
Cleanup Start Date: 08/20/1993
Cleanup Complete Date: 07/23/2013
Decode for Region: North West Region

Name: HEATING OIL TANK
Address: 1721 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-13-0214
Cleanup Received Date: 02/28/2013
Cleanup Start Date: Not reported
Cleanup Complete Date: 03/08/2013
Decode for Region: North West Region

UST:
Name: PRO TRUCK LINES
Address: 1721 NW NORTHRUP
City: PORTLAND
Facility ID: 5191
Facility Telephone: (503) 224-7177
Permittee Name: RON BROWN, PRESIDENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

72
WNW
1/4-1/2
0.308 mi.
1626 ft.

HEATING OIL TANK **OR LUST** **S100500597**
1900 NW 18TH AVE **N/A**
PORTLAND, OR 97209

Relative: Higher
Actual: 40 ft.

LUST:
Name: HEATING OIL TANK
Address: 1900 NW 18TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-91-0163
Cleanup Received Date: 04/23/1991
Cleanup Start Date: 04/23/1991
Cleanup Complete Date: 04/27/1991
Decode for Region: North West Region

X73
SW
1/4-1/2
0.309 mi.
1629 ft.

HEATING OIL TANK **OR LUST** **S102959452**
1714 NW NORTHROP **N/A**
PORTLAND, OR 97209

Site 2 of 4 in cluster X

Relative: Higher
Actual: 56 ft.

LUST:
Name: HEATING OIL TANK
Address: 1714 NW NORTHROP
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region

HEATING OIL TANK (Continued) **S102959452**

Facility ID: 26-97-0888
Cleanup Received Date: 11/21/1997
Cleanup Start Date: Not reported
Cleanup Complete Date: 06/25/2015
Decode for Region: North West Region

W74 **CHECKMASTER, INC. DBA PAYMASTER NW** **OR LUST** **U000432376**
SW **1020 NW 17TH** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.319 mi.
1683 ft. **Site 2 of 2 in cluster W**

Relative: Higher
Actual: 56 ft.

LUST:
Name: CHECKMASTER, INC. DBA PAYMASTER NW
Address: 1020 NW 17TH
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-91-0440
Cleanup Received Date: 11/01/1991
Cleanup Start Date: 10/31/1991
Cleanup Complete Date: 11/13/1996
Decode for Region: North West Region

UST:
Name: CHECKMASTER, INC. DBA PAYMASTER NW
Address: 1020 NW 17TH
City: PORTLAND
Facility ID: 4074
Facility Telephone: (503) 227-5455
Permittee Name: L.R. CONSER, PRESIDENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

V75 **HOYT STREET RAILYARD PEARL COURT** **OR ECSI** **S109346065**
SSE **920 NW KEARNEY ST.** **OR VCP** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR BROWNFIELDS**
0.320 mi.
1687 ft. **Site 2 of 3 in cluster V**

Relative: Higher
Actual: 38 ft.

ECSI:
Name: HOYT STREET RAILYARD PEARL COURT
Address: 920 NW KEARNEY ST.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 1624
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: Not reported
Legislatve ID: 832
Investigation: No Further Action
FACA ID: 40234
Further Action: 0
Lat/Long (dms): 45 31 44.00 / -122 40 51.00
County Code: 26.00
Score Value: Not reported

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BC
Tax Lots: 600 & 700
Size: 0.94 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 07/30/2018
Created Date: 10/31/1994
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under state or federal authority
Alias Name: Pearl Court Apartments
Alias Name: Hoyt Street Train Yard - Parcel 1

Hazardous Release:
Substance ID.: 121639
Haz Release ID: 380595
Qty Released: unknown
Date Released: unknown
Update Date: 05/31/2018
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305875
Release Code: Media Contamination Footnote
Release Comments: Leachate concentration determined by TCLP
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351008
Feature Id: 0
Hazard Release Id: 380595
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5-1.0 ft bgs

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Start Date: 03/15/1996
End Date: 03/15/1996
Min Concentration: Not reported
Max Concentration: 800.00
Sample Comment: up to 800 ppm
Last Update By: KDANA
Update Date: 07/11/2018
Decode for MediumID: Soil
Sampling Result ID: 351009
Feature Id: 0
Hazard Release Id: 380595
Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 08/23/1990
End Date: 08/23/1990
Min Concentration: Not reported
Max Concentration: 1.20
Sample Comment: up to 1.2 mg/L
Last Update By: KDANA
Update Date: 05/31/2018
Decode for MediumID: Leachate
Sampling Result ID: 342329
Feature Id: 0
Hazard Release Id: 380595
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-5 ft bgs
Start Date: 08/23/1990
End Date: 08/23/1990
Min Concentration: Not reported
Max Concentration: 320.00
Sample Comment: up to 320 ppm
Last Update By: KDANA
Update Date: 05/31/2018
Decode for MediumID: Soil

Substance ID.: 122012
Haz Release ID: 388417
Qty Released: unknown
Date Released: unknown
Update Date: 05/31/2018
Update By: KDANA
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 351010
Feature Id: 0
Hazard Release Id: 388417
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 6 ft bgs
Start Date: 12/27/1996
End Date: 12/27/1996
Min Concentration: Not reported
Max Concentration: 200.00
Sample Comment: up to 200 ppm
Last Update By: KDANA
Update Date: 05/31/2018
Decode for MediumID: Soil

Narrative:
NARR ID: 5748837
NARR Code: Contamination
Created By: JWAGGY
Created Date: 12/19/2006
Updated By: KDANA
Updated Date: 10/23/2018
Decode for NarcdID: Contamination
NARR Comments: (10/23/2018 KPD/VCP) In 1990, as part of a larger investigation of the Hoyt Street Railyard, soil samples were collected from the Pearl Court site and analyzed for petroleum hydrocarbons and four metals (chromium, copper, lead and zinc). Elevated concentrations of lead (up to 320 ppm) were detected in a composite soil sample in the northeast corner of the site. A groundwater sample was collected from a monitoring well in the Johnson Street right-of-way on the south side of the site and analyzed for metals, PAHs and VOCs. Low levels of PAHs were detected. Investigation of the site resumed in 1996. The monitoring well was resampled for metals, BTEX and PAHs. No contaminants were detected. Four discrete soil samples were collected from the northeast corner of the site and analyzed for lead. Lead was detected in all four samples, at concentrations ranging from 12 ppm to 800 ppm.

NARR ID: 5757183
NARR Code: Data Sources
Created By: KDANA
Created Date: 05/29/2018
Updated By: KDANA
Updated Date: 07/11/2018
Decode for NarcdID: Data Sources
NARR Comments: 1) GRI <quot>Level 2 Environmental Investigation<quot> [June 3, 1993]. 2) RETEC <quot>Draft Work Plan for an Interim Soils Removal

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Measure<quot> [March 26, 1996]. 3) HOT file #26-97-0006.

NARR ID: 5734524
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 05/31/2018
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Lead and TPH in the soil and PAHs in the groundwater

NARR ID: 5755919
NARR Code: Site Location
Created By: KDANA
Created Date: 12/17/2015
Updated By: KDANA
Updated Date: 12/17/2015
Decode for NarcdID: Site Location
NARR Comments: The site covers the city block bounded by NW Kearney Street to the north, NW Johnson Street to the south, NW 9th Avenue to the east, and NW 10th Avenue to the west.

NARR ID: 5734526
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of release unknown.

NARR ID: 5734529
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/23/2018
Decode for NarcdID: Remedial Action
NARR Comments: (10/23/2018 KPD/VCP) Approximately 50 cubic yards of lead-contaminated soils were excavated from the northeast corner of the Pearl Court site in May 1996. In December 1996, a 500-gallon heating oil tank was decommissioned by removal from the site. Soil samples collected from the ends of the tank found TPH at concentrations up to 200 ppm, below the Soil Matrix Level 2 cleanup standard of 500 ppm. The project file was not properly closed in 1996. In 2018, DEQ issued a formal No Further Action letter for the project, and a Certification of Completion for the Prospective Purchaser Agreement.

NARR ID: 5756051
NARR Code: Site History
Created By: KDANA
Created Date: 03/30/2016
Updated By: KDANA
Updated Date: 07/11/2018
Decode for NarcdID: Site History
NARR Comments: The Hoyt Street Yard was a locomotive fueling and servicing and

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

railroad switching yard that extended north from NW Hoyt Street, generally between NW 9th and 12th Avenues. The yard operated from 1911 through 1998. The yard was divided into two parcels, north and south of the Lovejoy Viaduct, when environmental investigations began in 1989-90. Parcel 2, north of Lovejoy, was added to DEQ's ECSI database as the Hoyt Street Train Yard (ECSI #1080) in 1991. Burlington Northern Railroad signed up for DEQ oversight of an investigation and cleanup of Parcel 2 in March 1994. Parcel 1 of the Hoyt Street Yard, 10 city blocks south of Lovejoy, was added to the ECSI database in October 1994 as ECSI #1624. In March 1995, DEQ received a copy of a June 1993 Environmental Investigation report that showed little contamination on eight of the blocks (between NW Hoyt and Lovejoy Streets and NW 10th and 12th Avenues). DEQ subsequently decided to drop these blocks from the Parcel 1 site. In August 1995, DEQ signed an Order on Consent with Burlington Northern Railroad to investigate the Hoyt Street Train Yard. The two remaining blocks of Parcel 1 (between NW Johnson and Lovejoy Streets and NW 9th and 10th Avenues) were added to the investigation (and to ECSI #1080). The combined site was renamed the Hoyt Street Railyard. ECSI file #1624 was reassigned to the southernmost block of the Hoyt Street Railyard, bounded by NW Johnson and Kearney Streets and NW 9th and 10th Avenues. In September 1996, DEQ entered into a Prospective Purchaser Agreement (PPA 96-08) with Pearl Court Limited Partnership. PCLP agreed to remediate and redevelop the southernmost block with the 191-unit Pearl Court Apartments.

NARR ID: 5757185
NARR Code: 1922
Created By: KDANA
Created Date: 05/31/2018
Updated By: KDANA
Updated Date: 05/31/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: This ECSI file number originally referenced a 10-block portion of the Hoyt Street Railyard that extended south of the Lovejoy Viaduct (referred to as Parcel 1). Parcel 2 (north of Lovejoy) was assigned ECSI #1080. Investigations in the early 1990s determined that eight of the blocks in Parcel 1 had little to no contamination. ECSI #1624 was reassgined to the Pearl Court block in 1996. Lead-contaminated soils were removed from this block in May 1996, and a 500-gallon heating oil tank was removed in December 1996. The Pearl Court Apartments were subsequently constructed on the block. The remaining Parcel 1 block (the Pearl Block) was assigned ECSI #4960.

Administrative Action:
Action ID: 9464
Region: Northwestern Region
Complete Date: 09/12/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Action ID: 9496
Region: Northwestern Region
Complete Date: 10/28/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 10/28/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Northwestern Region
Complete Date: 10/31/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9498

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Region: Northwestern Region
Complete Date: 10/31/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 12/01/1994
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9430
Region: Headquarters
Complete Date: 01/20/1995
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Petition or request granted
Further Action: 0
Comments: Not reported

Action ID: 9428
Region: Headquarters
Complete Date: 01/10/1995
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Extension requested by owner/operator
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Headquarters

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Complete Date: 03/10/1995
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Not reported

Action ID: 9419
Region: Northwestern Region
Complete Date: 07/20/1996
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Decision Not to List Site (on the CRL or Inventory)
Further Action: 0
Comments: Not reported

Action ID: 9426
Region: Northwestern Region
Complete Date: 07/11/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/11/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: 0
Comments: Not reported

Action ID: 9413
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/30/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 07/23/2018

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/30/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9414
Region: Northwestern Region
Complete Date: 10/19/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/23/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Certification of Completion
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132957
Operation Status: Inactive
Common Name: Hoyt Street Railyard
Yrs of Operation: 1911-1998
Comments: Railroad switching, storage, and fueling yard
Updated Date: 12/17/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199374
SIC Code: 4011
Created By: KDANA
Created Date: 12/17/2015

VCS:
Name: HOYT STREET RAILYARD PEARL COURT
Address: 920 NW KEARNEY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1624
Facility Size: 0.94 acres
Action: Closeout activities on completed project
Start Date: 07/11/2018
End Date: Not reported
Program: VCP
Latitude: 45.5288
Longitude: -122.6808

Name: HOYT STREET RAILYARD PEARL COURT
Address: 920 NW KEARNEY ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1624
Facility Size: 0.94 acres

HOYT STREET RAILYARD PEARL COURT (Continued) **S109346065**

Action:	Certification of Completion
Start Date:	07/23/2018
End Date:	10/19/2018
Program:	VCP
Latitude:	45.5288
Longitude:	-122.6808

Name:	HOYT STREET RAILYARD PEARL COURT
Address:	920 NW KEARNEY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1624
Facility Size:	0.94 acres
Action:	SITE PRIORITY EVALUATION FOR FURTHER ACTION
Start Date:	05/10/2017
End Date:	07/11/2018
Program:	VCP
Latitude:	45.5288
Longitude:	-122.6808

Name:	HOYT STREET RAILYARD PEARL COURT
Address:	920 NW KEARNEY ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1624
Facility Size:	0.94 acres
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	07/23/2018
End Date:	07/23/2018
Program:	VCP
Latitude:	45.5288
Longitude:	-122.6808

OR BROWNFIELDS:

Name:	HOYT STREET RAILYARD PEARL COURT
Address:	920 NW KEARNEY ST.
City,State,Zip:	PORTLAND, OR 97209
Geolocation Id:	40234
Status:	NO FURTHER STATE ACTION REQUIRED
Lat/Long:	45.5288 / -122.680

Y76 **MKC ENTERPRISES II** **OR LUST** **S119015288**
West **1832 NW RALEIGH ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.320 mi.
1689 ft. **Site 1 of 4 in cluster Y**

Relative:
Higher

Actual:
51 ft.

LUST:

Name:	MKC ENTERPRISES II
Address:	1832 NW RALEIGH ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-04-0514
Cleanup Received Date:	04/02/2004
Cleanup Start Date:	04/02/2004
Cleanup Complete Date:	**01/18/2011**
Decode for Region:	**North West Region**

Y77 **M K C ENTERPRISES INC** **OR LUST** **S119015600**
West **1832 NW RALEIGH ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.320 mi.
1689 ft. **Site 2 of 4 in cluster Y**

Relative: **Higher**
Actual: **51 ft.**

LUST:

Name:	M K C ENTERPRISES INC
Address:	1832 NW RALEIGH ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-99-0155
Cleanup Received Date:	02/18/1999
Cleanup Start Date:	02/08/1999
Cleanup Complete Date:	**04/09/2001**
Decode for Region:	**North West Region**

Z78 **PACIFICORP ALBINA RIVERLOTS** **OR ECSI** **S109493957**
NNE **LOTS NEAR BASE OF THE FREMONT BRIDGE** **OR VCP** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.322 mi.
1699 ft. **Site 1 of 3 in cluster Z**

Relative: **Lower**
Actual: **17 ft.**

ECSI:

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	5117
Brown ID:	0
Study Area:	True
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	109993
Further Action:	0
Lat/Long (dms):	45 32 19.00 / -122 40 47.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	07/14/2014
Created Date:	12/18/2008
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	PP&L
Alias Name:	Pacific Power & Light
Alias Name:	PacifiCorp Albina Substation

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

Alias Name: Portland Harbor Sediment Study

Narrative:

NARR ID: 5751447
NARR Code: Site Contacts
Created By: KTARNOW
Created Date: 05/21/2009
Updated By: KTARNOW
Updated Date: 05/21/2009
Decode for NarcdID: Site Contacts
NARR Comments: Jackie Wetzsteon PERCO 825 NE Multnomah, Suite 550 LCT Portland, OR 97232 (503) 813-5036

NARR ID: 5752260
NARR Code: Contamination
Created By: KTARNOW
Created Date: 06/17/2010
Updated By: DHAFLEY
Updated Date: 11/21/2016
Decode for NarcdID: Contamination
NARR Comments: Primary contaminant PCBs associated with electrical substations and former Albina Engine Works. Petroleum, metals, PAHs, and VOCs a lesser concern. Significant PCB impacts in sediments within the (adjacent) RM11E portion of the Willamette River.

NARR ID: 5752303
NARR Code: Data Sources
Created By: DHAFLEY
Created Date: 07/07/2010
Updated By: DHAFLEY
Updated Date: 09/27/2018
Decode for NarcdID: Data Sources
NARR Comments: Albina Substation Offsite Migration - Sampling and Analysis Plan; Bridgewater, 2009. Albina Substation - Perimeter Soil Sampling Results, August-September 2009; Bridgewater, September 2009. Final Preliminary Assessment Report for the Albina Area Properties; Bridgewater Group, Inc., November 2009. Final Preliminary Assessment Report for the PacifiCorp Knott Substation; Bridgewater Group, Inc., October 2009. Albina Substation Stormwater Source Control Measures Workplan; Bridgewater Group, June 1, 2010. Albina Substation Environmental Soil Sampling (69kV Yard voltage regulator fire); PBS Engineering & Environmental, June 23, 2010 PacifiCorp Cable Crossing 104(e) Response; PacifiCorp, July 8, 2010. Underground Injection Control Closure Report, Knott Street Substation; PBS, October 3, 2011. PacifiCorp Albina Substation Storm Sewer Video Survey; Bridgewater Group, August 4, 2011. Outfall Basin 44 Source Investigation Report, Portland BES, June 2011. Albina Substation Stormwater Source Control Measures, Spring 2011 Performance Monitoring Plan; Bridgewater Group, March 17, 2011. Interim Stormwater Source Control Measures Completion Report - Albina Substation; Bridgewater Group, December 2011. Outfall Basins 43 and 44 Stormwater Investigations; Portland BES, October 2012. (Draft) Stormwater Source Control Evaluation and Stormwater Source Control Measures Completion Report - Albina Substation; Bridgewater Group, October 2012. Stormwater Source Control Measures Completon Report - Knott Substation. Bridgewater Group, November 2012. Source Control Evaluation and Source Control Measures Completion Report, Albina Substation. Bridgewater Group, August 2014. Albina Substation - Catch

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

Basin CB-A1 Closure Documentation. Bridgewater Group, Inc.; November 20, 2015. Albina substation - Storm Event Observations; 12/07/15. DEQ Source Control Decision (draft). November 2016. Erosion, Sediment, and Pollutant Control Plan (ESPCP), PacifiCorp Albina Substation. Christenson Electric, Inc.; December 2017.

NARR ID: 5751446
NARR Code: General Site Description
Created By: KTARNOW
Created Date: 05/21/2009
Updated By: DHAFLEY
Updated Date: 11/21/2016
Decode for NarcdID: General Site Description
NARR Comments: The <quot>site<quot> includes several properties currently or formerly-owned/leased by PacifiCorp that are located within City Outfall Basins #44 and #44A. These outfalls discharge immediately upstream of the Fremont bridge on the east side of the river. All but one of the properties are located in the vicinity of River and Loring Streets between the bridge and Albina Ave. The other property is an operating substation located west of NE Rodney Ave, between NE Russell and NE Knott Streets. Operating PacifiCorp substations remain on Blocks 71, 81, and 82, while remaining blocks have been redeveloped and are no longer owned or used by PacifiCorp.

NARR ID: 5751055
NARR Code: Hazardous Substance/Waste Types
Created By: GWISTAR
Created Date: 12/18/2008
Updated By: DHAFLEY
Updated Date: 11/21/2016
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Polychlorinated biphenyls (PCBs), TPH, metals, and PAHs.

NARR ID: 5751448
NARR Code: Project Activity Status
Created By: KTARNOW
Created Date: 05/21/2009
Updated By: KTARNOW
Updated Date: 05/21/2009
Decode for NarcdID: Project Activity Status
NARR Comments: Conducting stormwater pathway evaluation of currently owned sites and Preliminary Assessment reports for all properties. Need for stormwater eval at formerly-owned properties in this area or for eval of other pathways at any of the properties yet to be determined.

NARR ID: 5751449
NARR Code: Pathways Other Hazards
Created By: KTARNOW
Created Date: 05/21/2009
Updated By: DHAFLEY
Updated Date: 11/21/2016
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Primary pathway of concern is stormwater-to-surface water (Willamette River) migration. Groundwater transport a lesser concern.

NARR ID: 5752277
NARR Code: Remedial Action

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

Created By: GWISTAR
Created Date: 06/28/2010
Updated By: DHAFLEY
Updated Date: 11/21/2016
Decode for NarcdID: Remedial Action
NARR Comments: Pacificorp embarking on removal of potentially erodible soils surrounding Albina Substation blocks, cleanout of catch basins, replacment of pavement on and adjacent to substation, and improvement of containment berms to minimize stormwater runoff. See June 2010 Source Control Implementation document posted to this site for more details. Stormwater catch basins and sewer lines in the site vicinity have been cleaned, and confirmatory stormwater sampling completed. Drainage off of the substation properties has been eliminated.

NARR ID: 5751054
NARR Code: 1922
Created By: GWISTAR
Created Date: 12/18/2008
Updated By: DHAFLEY
Updated Date: 09/25/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [Oct. 2010] This site includes a number of tax lots that PacifiCorp currently or formerly owned/leased within City of Portland Outfall Basin #44 and #44A just upstream of the Fremont Bridge. Blocks 71, 81, and 82 contain an active PacifiCorp substation. Blocks 69, 78, 79, 80, and 83 were formerly owned/used by PacifiCorp and have since been sold and redeveloped. Block 83 is known as the Former Tucker Building site (ECSI# 3036) and owned by the City of Portland. The elevated levels of PCBs in adjacent (RM 11E) Willamette River sediments prompted a DEQ source-control (SC) evaluation to determine whether these properties could be PCB sources. Pacificorp signed a source control agreement and was asked to submit a Preliminary Assessment (PA) of all of the Albina properties. Preliminary PAs for the Albina Area and Knott St. properties were submitted in March 2009, and revised reports in November 2009, based on DEQ comments. Subsequent soil sampling adjacent to the 69kV, 11kV, and 115kV operating substation sites revealed low-level PCB contamination. PacifiCorp prepared a SC work plan to address contamination; it was finalized in June 2010, with work completed in October 2010. A SC cleanup report is expected in late 2011. A separate analysis by PacifiCorp on potential PCB migration via preferential pathways (groundwater-to-surface water) is ongoing. DEQ will make a final decision on the previously submitted PAs after reviewing the two reports. (November 2012). Source control investigation, remediation, and upgrade work has been completed for the substation properties. Stormwater sampling completed by Portland BES in spring 2012 did not identify significant PCBs in stormwater downstream of the Albina Riverlots, while stormwater from the more distant Knott St. substation property discharges to outfall 44A and is being diverted to the east side CSO. (December 2012). DEQ approved the Knott St. Stormwater Source Control report on December 21, 2012. Knott St. is not considered a significant source control concern re the Willamette River. DEQ is currently reviewing the source control report for the Albina Substations, and expects to provide comments by the end of 2012. DEQ will follow with a source control determination for both sites. A source control decision for the PacifiCorp - Knott Street substation was completed on April 5, 2013. Albina Properties SCE has

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

been delayed to due ongoing RM11E investigation work and is now scheduled for delivery to DEQ in September 2014. Revised Source Control Evaluation for the Albina Substation properties was submitted to DEQ in August 2014 has been approved. A source control decision has been completed by DEQ and will be fowarded to EPA and Portland Harbor stakeholders in November 2016 for their consideration. DEQ responded to EPA and Five Tribes comments on the source control document, along with revisions to the document, in July 2017. Both the tribes and EPA subsequently concurred with DEQ's assessment that upland sources are effectively controlled. PacifiCorp has developed and will implement a Source Control Management Plan for the active Albina Substation properties (July 2017). Excepting the Tucker Property (ECSI# 3036) that comprises one block of the Albina Properties, DEQ has not issued NFA determinations. All are currently considered low priorities for further action at this time. (September 2018). Substation upgrades are planned for Block 81 (69 kV Yard) in 2018 and 2019. A draft Erosion, Sediment, and Pollutant Control Plan has been prepared, and will be revised and provided to DEQ. Early 2019 work is expected to include generation and management of soil which may contain PCBs. PacifiCorp will keep DEQ updated on site improvements.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/18/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/18/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Northwestern Region
Complete Date: 06/17/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/18/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 06/17/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/20/2009
Decode for AgencyID: Department of Environmental Quality

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 10/27/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/17/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9524
Region: Northwestern Region
Complete Date: 11/01/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/13/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCE
Further Action: 0
Comments: Not reported

Action ID: 9523
Region: Northwestern Region
Complete Date: 09/07/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/21/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCD
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135640
Operation Status: Active
Common Name: Pacificorp Albina Substation and Knott Substation
Yrs of Operation: Not reported
Comments: Not reported
Updated Date: 06/17/2010
Updated By: KTARNOW
Decode for OpstatID: Active

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

VCS:

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5117
Facility Size:	Not reported
Action:	REMOVAL
Start Date:	06/17/2010
End Date:	10/27/2010
Program:	VCS
Latitude:	45.5386
Longitude:	-122.6799

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5117
Facility Size:	Not reported
Action:	BASIC PRELIMINARY ASSESSEMENT
Start Date:	12/18/2008
End Date:	06/17/2010
Program:	VCP
Latitude:	45.5386
Longitude:	-122.6799

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5117
Facility Size:	Not reported
Action:	SITE EVALUATION
Start Date:	12/18/2008
End Date:	06/17/2010
Program:	VCP
Latitude:	45.5386
Longitude:	-122.6799

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5117
Facility Size:	Not reported
Action:	Source Control Evaluation
Start Date:	10/29/2010
End Date:	11/01/2016
Program:	VCP
Latitude:	45.5386
Longitude:	-122.6799

Name:	PACIFICORP ALBINA RIVERLOTS
Address:	LOTS NEAR BASE OF THE FREMONT BRIDGE
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5117
Facility Size:	Not reported
Action:	Source Control Decision
Start Date:	11/21/2016
End Date:	09/07/2017

PACIFICORP ALBINA RIVERLOTS (Continued) **S109493957**

Program: VCP
Latitude: 45.5386
Longitude: -122.6799

X79 **HEATING OIL TANK** **OR LUST** **S107135445**
SW **1715 NW MARSHALL ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.322 mi.
1700 ft. **Site 3 of 4 in cluster X**

Relative:
Higher

Actual:
57 ft.

LUST:
Name: HEATING OIL TANK
Address: 1715 NW MARSHALL ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-05-1322
Cleanup Received Date: 06/22/2005
Cleanup Start Date: 06/24/2005
Cleanup Complete Date: 02/27/2006
Decode for Region: North West Region

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80 **ABANDONED TANNER CREEK SEWER** **OR ECSI** **S110479141**
SSE **NW 9TH AVE. FROM NW KEARNEY ST. TO NW NAITO PKWY.** **OR VCP** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.324 mi.
1712 ft.

Relative:
Higher

Actual:
37 ft.

ECSI:
Name: ABANDONED TANNER CREEK SEWER
Address: NW 9TH AVE. FROM NW KEARNEY ST. TO NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 5328
Brown ID: 0
Study Area: False
Region ID: Not reported
Legislatve ID: 0
Investigation: Suspect
FACA ID: 117463
Further Action: 256
Lat/Long (dms): 45 31 45.80 / -122 40 47.30
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BB
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 08/28/2019
Created Date: 04/05/2010

ABANDONED TANNER CREEK SEWER (Continued) **S110479141**

Decode For RegionID: Not reported
Decode For BrownID: Not reported
Decode For Furtheract: High
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: 9th & Lovejoy

Narrative:
NARR ID: 5752181
NARR Code: Contamination
Created By: DHAFLEY
Created Date: 05/19/2010
Updated By: KDANA
Updated Date: 02/10/2021
Decode for NarcdID: Contamination
NARR Comments: Investigations in and around the Abandoned Tanner Creek Sewer (ATCS) have identified petroleum contamination in the soil and groundwater, particularly around the intersection of 9th & Lovejoy. In 2002, oil-saturated sand was observed inside the ATCS, and oily water was observed seeping out of the ATCS through joints in the brick sidewalls. The former Pintsch MGP is the suspected source of the 9th & Lovejoy contamination. Portland Terminal Railroad Company (PTRR), as successor of the former owner of the Pintsch property, funded the completion of an <quot>Investigation Summary Report<quot> in January 2015 (subsequently updated in December 2016).

NARR ID: 5752183
NARR Code: Data Sources
Created By: DHAFLEY
Created Date: 05/19/2010
Updated By: KDANA
Updated Date: 08/28/2019
Decode for NarcdID: Data Sources
NARR Comments: 1) CH2M Hill <quot>Investigation Summary Report<quot> [January 2015]. 2) CH2M Hill <quot>Investigation Summary Report<quot> (revised) [December 2016]. 3) Jacobs <quot>Work Plan for Cured-In-Place Pipe Lining<quot> [June 21, 2019]. See also the files for Hoyt Street Railyard (ECSI #1080), US Postal Service Processing & Distribution Center (ECSI #2183), Station Place Redevelopment (ECSI #2407), and Centennial Mills (ECSI #5136).

NARR ID: 5752185
NARR Code: Hazardous Substance/Waste Types
Created By: DHAFLEY
Created Date: 05/19/2010
Updated By: DHAFLEY
Updated Date: 05/19/2010
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Manufactured gas plant waste including diesel and heavy oil-range TPH, and VOC and SVOC constituents including benzene, naphthalene and benzo(a)pyrene. Free product has been observed within the abandoned sewer.

NARR ID: 5752186
NARR Code: Project Issues Summary
Created By: DHAFLEY
Created Date: 05/19/2010
Updated By: DHAFLEY

ABANDONED TANNER CREEK SEWER (Continued) **S110479141**

Updated Date: 05/19/2010
Decode for NarcdID: Project Issues Summary
NARR Comments: Investigation at both the Union Station-Horse Barn (ECSI#2407) and USPS (2183) sites has identified gas plant-type contamination both within and immediately around the Abandoned Tanner Creek Sewer. The suspected source of the contamination is releases from the Pintsch Gas Plant that operated at the southwest corner of NW 9th and Lovejoy in Portland in the late 1800s and early 1900s. DEQ has determined that contamination is not related to activities performed at either site during recent times. Contamination at/around the pipe has been identified at NW Lovejoy, NW Marshall, and near NW Naito in the general area of the Willamette River. Investigation is necessary to fully define the nature and extent of gas plant contamination associated with the sewer, and determine whether ongoing impacts to the Willamette River are possible. The (former) discharge point for the sewer lies within the Portland Harbor Study Area.

NARR ID: 5757717
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 12/04/2019
Updated By: KDANA
Updated Date: 12/04/2019
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils in the area consist of up to 25 feet of fill atop native silts and clays. Groundwater is encountered at depths ranging from 10-20 feet bgs. Groundwater originally flowed north to the Willamette River but has been disrupted by extensive development in the area.

NARR ID: 5756534
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 12/28/2016
Updated By: KDANA
Updated Date: 02/10/2021
Decode for NarcdID: Remedial Action
NARR Comments: The Abandoned Tanner Creek Sewer (ATCS) was severed near the intersection of NW 9th Avenue and Naito Parkway circa 1917 and no longer discharges to the Willamette River. A portion of the ATCS beneath NW 9th & Marshall was plugged with controlled-density fill (CDF) in 2006. In September 2017, DEQ requested that Portland Terminal Railroad Company (PTRR) line the 27-inch storm sewer beneath 9th Avenue to prevent contaminant infiltration and subsequent discharge to the Willamette River. Planning for the cured-in-place pipe (CIPP) lining appears to have begun in May 2019. A 30% design package was submitted in July 2019.

NARR ID: 5757716
NARR Code: Site History
Created By: KDANA
Created Date: 12/04/2019
Updated By: KDANA
Updated Date: 09/15/2020
Decode for NarcdID: Site History
NARR Comments: Between 1887 and 1890 a brick sewer approximately five feet wide and 7.5 feet high was constructed to contain Tanner Creek, which originally flowed through the area. The sewer line ran beneath NW 9th

ABANDONED TANNER CREEK SEWER (Continued) **S110479141**

Avenue, with the top of the sewer approximately 17 feet below ground surface. A new concrete sewer for Tanner Creek was constructed beneath NW 10th Avenue between 1915 and 1917, reportedly because the brick sewer was structurally failing. The Abandoned Tanner Creek Sewer (ATCS) was severed beneath Front Avenue (now Naito Parkway) and backfilled with sand. From 1893 to 1934 the Pintsch Compressing Company operated a Manufactured Gas Plant (MGP) on the southeast corner of the intersection of NW 9th & Lovejoy, on land owned by the Northern Pacific Terminal Company. The MGP produced compressed gas from naphtha-grade oil for the lighting of passenger rail coaches. Wastes from the MGP may have discharged to the ATCS when the sewer line was active. In 1961, a 27-inch vitrified storm sewer pipe was installed beneath NW 9th Avenue. The pipe runs north from Lovejoy Street and discharges to the active Tanner Creek Sewer near the intersection of 9th & Naito.

Administrative Action:

Action ID:	9424
Region:	Not reported
Complete Date:	04/05/2010
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	04/05/2010
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Not reported
Category:	Administrative Action
Action Code Flag:	False
Action:	Site added to database
Further Action:	Not reported
Comments:	Not reported

Action ID:	9511
Region:	Northwestern Region
Complete Date:	12/26/2016
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	04/05/2010
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Northwest Region
Category:	Remedial Action
Action Code Flag:	False
Action:	SITE INVESTIGATION
Further Action:	0
Comments:	Not reported

Action ID:	9506
Region:	Northwestern Region
Complete Date:	05/19/2010
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	05/19/2010
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Northwest Region
Category:	Remedial Action
Action Code Flag:	False
Action:	Site Investigation recommended (SI)
Further Action:	High
Comments:	Not reported

ABANDONED TANNER CREEK SEWER (Continued) **S110479141**

Action ID: 9473
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/04/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL DESIGN
Further Action: 0
Comments: Not reported

VCS:
Name: ABANDONED TANNER CREEK SEWER
Address: NW 9TH AVE. FROM NW KEARNEY ST. TO NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5328
Facility Size: Not reported
Action: SITE INVESTIGATION
Start Date: 01/13/2015
End Date: 12/26/2016
Program: VCP
Latitude: 45.5294
Longitude: -122.6798

Name: ABANDONED TANNER CREEK SEWER
Address: NW 9TH AVE. FROM NW KEARNEY ST. TO NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5328
Facility Size: Not reported
Action: Site Investigation recommended (SI)
Start Date: 05/19/2010
End Date: 05/19/2010
Program: VCP
Latitude: 45.5294
Longitude: -122.6798

Name: ABANDONED TANNER CREEK SEWER
Address: NW 9TH AVE. FROM NW KEARNEY ST. TO NW NAITO PKWY.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 5328
Facility Size: Not reported
Action: REMEDIAL DESIGN
Start Date: 05/01/2019
End Date: Not reported
Program: VCP
Latitude: 45.5294
Longitude: -122.6798

X81 **NORTH 18 APARTMENTS** **OR ECSI S127977995**
WSW **1784 NW NORTHRUP STREET** **OR VCP N/A**
1/4-1/2 **PORTLAND, OR 97204**
0.325 mi.
1717 ft. **Site 4 of 4 in cluster X**

Relative:
Higher

Actual:
57 ft.

ECSI:

Name:	NORTH 18 APARTMENTS
Address:	1784 NW NORTHRUP STREET
City,State,Zip:	PORTLAND, OR 97204
State ID Number:	6488
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	166202
Further Action:	0
Lat/Long (dms):	45 31 52.00 / -122 41 21.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	AB
Tax Lots:	03500
Size:	0.46
NPL:	False
Orphan:	False
Updated By:	XCRUZCU
Update Date:	10/28/2021
Created Date:	10/28/2021
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Administrative Action:

Action ID:	9424
Region:	Not reported
Complete Date:	10/28/2021
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	10/28/2021
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Not reported
Category:	Administrative Action
Action Code Flag:	False
Action:	Site added to database
Further Action:	Not reported
Comments:	Not reported

Action ID:	9425
Region:	Northwestern Region
Complete Date:	Not reported
Rank Value:	Not reported

NORTH 18 APARTMENTS (Continued) **S127977995**

Cleanup Flag: False
Created Date: 10/28/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9456
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/16/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: 0
Comments: Not reported

VCS:
Name: NORTH 18 APARTMENTS
Address: 1784 (1714 OLD) NW NORTHRUP STREET
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6488
Facility Size: 0.46
Action: SITE EVALUATION
Start Date: 10/28/2021
End Date: Not reported
Program: VCP
Latitude: 45.5313
Longitude: -122.6891

Name: NORTH 18 APARTMENTS
Address: 1784 (1714 OLD) NW NORTHRUP STREET
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6488
Facility Size: 0.46
Action: BASIC PRELIMINARY ASSESSEMENT
Start Date: 11/16/2021
End Date: Not reported
Program: VCP
Latitude: 45.5313
Longitude: -122.6891

V82 **HEATING OIL TANK** **OR LUST** **S102417401**
SSE **845 NW 9TH STREET** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.325 mi.
1718 ft. **Site 3 of 3 in cluster V**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
38 ft. Address: 845 NW 9TH STREET
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-97-0006
Cleanup Received Date: 01/02/1997
Cleanup Start Date: 12/27/1996
Cleanup Complete Date: 03/18/1997
Decode for Region: North West Region

Y83 **HEATING OIL TANK** **OR LUST** **S105856339**
West **1526 NW 19TH** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.327 mi.
1729 ft. **Site 3 of 4 in cluster Y**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
52 ft. Address: 1526 NW 19TH
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-03-0277
Cleanup Received Date: 02/18/2003
Cleanup Start Date: 02/20/2003
Cleanup Complete Date: 06/02/2003
Decode for Region: North West Region

Y84 **HEATING OIL TANK** **OR LUST** **S120414282**
West **1502 NW 19TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.329 mi.
1737 ft. **Site 4 of 4 in cluster Y**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
54 ft. Address: 1502 NW 19TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-16-1561
Cleanup Received Date: 11/26/2016
Cleanup Start Date: Not reported
Cleanup Complete Date: 12/30/2016
Decode for Region: North West Region

AA85 **TFA, INC.** **OR LUST** **S102779193**
NW **2090 NW FRONT** **N/A**
1/4-1/2 **PORTLAND, OR 97210**
0.330 mi.
1744 ft. **Site 1 of 2 in cluster AA**

Relative: **Lower**
Actual: **34 ft.**

LUST:

Name:	TFA, INC.
Address:	2090 NW FRONT
City,State,Zip:	PORTLAND, OR 97210
Region:	North Western Region
Facility ID:	26-88-0082
Cleanup Received Date:	11/03/1988
Cleanup Start Date:	11/01/1990
Cleanup Complete Date:	**11/01/1990**
Decode for Region:	**North West Region**

AA86 **RIVERNORTH** **OR ECSI** **S110730163**
NW **2100 NW FRONT AVE** **OR CRL** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR INST CONTROL**
0.334 mi. **OR VCP**
1766 ft. **Site 2 of 2 in cluster AA** **OR UIC**

Relative: **Lower**
Actual: **34 ft.**

ECSI:

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	2642
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Listed on the CRL/Inventory
FACA ID:	110644
Further Action:	0
Lat/Long (dms):	45 32 21.10 / -122 41 23.30
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	28
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Approx. 15.6 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	05/20/2015
Created Date:	08/08/2000
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: High-Temp NW, Inc.
Alias Name: Multnomah County Sheriff's Office

RIVERNORTH (Continued) **S110730163**

Alias Name: Thermo Pressed Laminates, Inc.
Alias Name: Tristar Transload, Inc.
Alias Name: Portland Harbor Sediment Study

Hazardous Release:
Substance ID.: 122012
Haz Release ID: 380082
Qty Released: Not reported
Date Released: Not reported
Update Date: 11/27/2001
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 338901
Feature Id: 0
Hazard Release Id: 380082
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 20,700 ppm before removal (T1-South RI)
Last Update By: RSTRUCK
Update Date: 12/20/2004
Decode for MediumID: Soil
Sampling Result ID: 338902
Feature Id: 0
Hazard Release Id: 380082
Medium: 698
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 515 ppb (T1-South RI)
Last Update By: RSTRUCK

RIVERNORTH (Continued) **S110730163**

Update Date: 12/20/2004
Decode for MediumID: Groundwater

Substance ID.: 122002
Haz Release ID: 380083
Qty Released: Not reported
Date Released: Not reported
Update Date: 11/27/2001
Update By: Not reported
Substance Code: ECD243
Substance Name: POLYAROMATIC HYDROCARBONS (PAH)
Substance Abbrev.: Not reported
Substance Alias ID: 318143
Sub Alias Name: PAH
Substance Alias ID: 318148
Sub Alias Name: POLYCYCLIC AROMATIC HYDROCARBONS (PAH)
Substance Alias ID: 318149
Sub Alias Name: POLYNUCLEAR AROMATIC HYDROCARBINS (PNA)
Substance Alias ID: 318150
Sub Alias Name: PNA
Sampling Result ID: 338903
Feature Id: 0
Hazard Release Id: 380083
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 1,476 ppm before removal (T1-South RI)
Last Update By: RSTRUCK
Update Date: 12/20/2004
Decode for MediumID: Soil
Sampling Result ID: 338904
Feature Id: Not reported
Hazard Release Id: 380083
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 32.3 ppb (T1-South RI)
Last Update By: jmw
Update Date: 11/27/2001
Decode for MediumID: Groundwater

RIVERNORTH (Continued) **S110730163**

Substance ID.: 121639
Haz Release ID: 380084
Qty Released: Not reported
Date Released: Not reported
Update Date: 11/27/2001
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 338905
Feature Id: 0
Hazard Release Id: 380084
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 6,190 ppm before removal(T1-South RI)
Last Update By: RSTRUCK
Update Date: 12/20/2004
Decode for MediumID: Soil
Sampling Result ID: 338906
Feature Id: Not reported
Hazard Release Id: 380084
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 11.3 ppb (T1-South RI)
Last Update By: jmw
Update Date: 11/27/2001
Decode for MediumID: Groundwater

RIVERNORTH (Continued) **S110730163**

Substance ID.: 121664
Haz Release ID: 380085
Qty Released: Not reported
Date Released: Not reported
Update Date: 11/27/2001
Update By: Not reported
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 338907
Feature Id: 0
Hazard Release Id: 380085
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 12.9 ppm before removal (T1-South RI)
Last Update By: RSTRUCK
Update Date: 12/20/2004
Decode for MediumID: Soil
Sampling Result ID: 338908
Feature Id: Not reported
Hazard Release Id: 380085
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/12/2001
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Up to 9.2 ppb (T1-South RI)
Last Update By: jmw
Update Date: 11/27/2001
Decode for MediumID: Groundwater

RIVERNORTH (Continued) **S110730163**

Narrative:
NARR ID: 5739936
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 12/07/2007
Decode for NarcdID: Contamination
NARR Comments: (8/8/00 SAM/VCP) Based on initial sampling results from a river sediment quality study, the Port of Portland T-1 site was identified as a potential source of contamination to the Willamette River. The Port of Portland completed a Preliminary Assessment of T-1 in March 2000. (6/9/2003 RGS/VCP) Low level petroleum and metal contamination was identified in soil and groundwater at the facility during the Remedial Investigation. Contamination is suspected to be from historic releases, spills, and a dry well. Soil with contaminants above DEQ Record of Decision Cleanup levels were excavated and disposed of at an offsite landfill. Residual contamination is considered protective of urban residents. A No Further Action letter was issued by DEQ on 6/09/03.

NARR ID: 5739937
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: RSTRUCK
Updated Date: 12/20/2004
Decode for NarcdID: Data Sources
NARR Comments: 1) Preliminary Assessment, POP, Terminal 1, Port of Portland, March 10, 2000; 2) Terminal 1 South Remedial Investigation Report, Hahn & Associates, July 12, 2001; 3) Monitoring Well Installation and Groundwater Report, Hahn and Associates, 2001; 4) Risk Assessment Reports, Hart Crowser, June, 2002; 5) Feasibility Study, Hart Crowser, June, 2002; 6) Removal Work Plan, Hart Crowser, June, 2002; 7) Record of Decision, DEQ, September, 2002; 8) Record of Decision Amendment, DEQ, December, 2002. 9) No Further Action Determination, DEQ, June 9, 2003.

NARR ID: 5739938
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: JWAGGY
Updated Date: 12/30/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Heavy-oil-range hydrocarbons, PAHs, arsenic, lead

NARR ID: 5739939
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/25/2004
Decode for NarcdID: Site Location
NARR Comments: Terminal 1 South is located on the west bank of the Willamette River directly north of the downtown core area and immediately downstream of the Fremont Bridge. For information on Terminal 1 North, see ECSI

RIVERNORTH (Continued) **S110730163**

#3377.

NARR ID: 5739941
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: RSTRUCK
Updated Date: 12/20/2004
Decode for NarcdID: Remedial Action
NARR Comments: (8/8/00 SAM/VCP) DEQ to complete a review of site information in August 2000. (11/21/01 TBG/VCP) Port submitted a Preliminary Asssessment dated 9/7/00. (11/21/01 RGS/VCP) The Port initiated an RI investigation for T1-South in the fall of 2000 as part of a sales agreement. Soil and groundwater samples were collected and the RI report was approved by DEQ in July 2001. Groundwater monitoring wells were installed in August 2001 on T1-South. A Risk Assessment work plan was submitted to DEQ for T1-South in October 2001. (12/24/02 RGS/VCP) The Risk Assessment and Feasibility Study were approved by DEQ in July 2002. A removal plan was also approved by DEQ in July 2002. Soils from Parcel 2(Area B) were removed in August/September 2002. The ROD was signed in September 2002 and amended in December 2002. Soil removal from Parcel 3(Area A) occurred in December 2002. The No Further Action (NFA) for parcel 1(A) was issued in August 2002. The NFA for Parcels 2 (Area B) and 3 (Area A) was issued in June 2003.

NARR ID: 5739942
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: RSTRUCK
Updated Date: 12/20/2004
Decode for NarcdID: Health Threats
NARR Comments: PAH and arsenic concentrations in soil posed potentially unacceptable risks to human health. Soil above levels considered protective of future land use (urban residential) was removed in 2002/2003. Residual soil contaminantion is considered protective of human health. Ecological receptors were not identified at the site.

NARR ID: 5743995
NARR Code: Site History
Created By: GWISTAR
Created Date: 08/07/2003
Updated By: GWISTAR
Updated Date: 08/07/2003
Decode for NarcdID: Site History
NARR Comments: Historically, the Terminal 1 South facility was used by various parties for staging of lumber, logs, paper products, steel containers, and bagged grain. Site structures were demolished in the summer of 2002. The property is scheduled for redevelopment for urban residential and commercial purposes.

NARR ID: 5755663
NARR Code: 1922
Created By: EMCDONN
Created Date: 04/28/2015
Updated By: EMCDONN

RIVERNORTH (Continued) **S110730163**

Updated Date: 04/28/2015
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The Terminal 1 South site is located at river mile 11, upstream of what is known as Portland Harbor. The nature and extent of contamination was defined during site characterization activities, described in the 2001-2002 remedial investigation reports. Low level contamination detected at Parcel 1 (Area C) was determined by DEQ to pose no unacceptable risk to human health or the environment, and granted a no further action decision in 2002. A remedy consisting of soil removal and institutional controls has been implemented at Parcels 2 and 3 (Areas A and B). These parcels were granted a no further action with conditions by DEQ in 2003. The property is presently undergoing redevelopment for mixed uses including urban residential.

Site Control:
Site Control #: 274
Control Number: 3
Begin Date: 06/09/2003
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Rod Struck, DEQ
Last Reviewed Date: 06/10/2005
Last Update By: GWISTAR
Last Updated Date: 05/20/2015
Site Comment: E&ES applies to Parcels 2 and 3. It requires notification of occupants/site workers of residual contamination; upper 3 feet of soil must meet urban residential levels; excavated soil must be managed in accordance with the selected remedy; and land use be limited to urban residential or commercial.

Site Control #: 877
Control Number: 14
Begin Date: 06/09/2003
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Rod Struck, DEQ
Last Reviewed Date: 06/10/2005
Last Update By: GWISTAR
Last Updated Date: 05/20/2015
Site Comment: For Parcels 2 and 3, required notification of occupants/site workers of residual contamination.

Site Control #: 878
Control Number: 5
Begin Date: 06/09/2003
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Rod Struck, DEQ
Last Reviewed Date: 06/10/2005
Last Update By: GWISTAR
Last Updated Date: 05/20/2015
Site Comment: Land use is limited to urban residential or commercial only.

Administrative Action:
Action ID: 9498
Region: Northwestern Region
Complete Date: 10/03/2002

RIVERNORTH (Continued) **S110730163**

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 10/03/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 07/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 07/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 07/12/2002
Rank Value: 0

RIVERNORTH (Continued) **S110730163**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 08/08/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 08/31/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 08/08/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 06/09/2003
Rank Value: Not reported
Cleanup Flag: False

RIVERNORTH (Continued) **S110730163**

Created Date: 08/04/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 11/19/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 11/19/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 03/24/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/25/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 03/24/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/25/2003

RIVERNORTH (Continued) **S110730163**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 01/20/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/29/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 06/09/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/29/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 07/12/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 09/26/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality

RIVERNORTH (Continued) **S110730163**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9463
Region: Northwestern Region
Complete Date: 08/27/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 09/26/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 12/18/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 12/18/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

RIVERNORTH (Continued) **S110730163**

Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 01/14/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 01/14/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/14/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action

RIVERNORTH (Continued) **S110730163**

Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Operations:

Operation Id: 133863
Operation Status: Inactive
Common Name: High-Temp NW, Inc.
Yrs of Operation: unknown
Comments: Inactive. Mfg and distribution of large refractory brick and other products. Moved off-site, Fall 2002.
Updated Date: 12/30/2002
Updated By: JWAGGY
Decode for OpstatID: Inactive
Operations SIC Id: 197161
SIC Code: 3200
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133864
Operation Status: Unknown
Common Name: Multnomah County Sheriff's Office
Yrs of Operation: unknown
Comments: Moorage of county Sheriff's river patrol boat house.
Updated Date: 08/08/2000
Updated By: jmw
Decode for OpstatID: Unknown
Operations SIC Id: 197163
SIC Code: 9229
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133865
Operation Status: Inactive
Common Name: Port of Portland
Yrs of Operation: 1912 - present
Comments: Site consists of 3 parcels. Parcels 1 and 2 were sold to Riverscape in 2002. Sale pending on Parcel 3.
Updated Date: 12/30/2002
Updated By: JWAGGY
Decode for OpstatID: Inactive
Operations SIC Id: 197159
SIC Code: 4491
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133866
Operation Status: Inactive
Common Name: Thermo Pressed Laminates, Inc.
Yrs of Operation: unknown
Comments: Inactive. Mfg and distribution of laminated wood. Moved off-site, Fall 2002.
Updated Date: 12/30/2002
Updated By: JWAGGY
Decode for OpstatID: Inactive
Operations SIC Id: 197162
SIC Code: 3900

RIVERNORTH (Continued) **S110730163**

Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133867
Operation Status: Inactive
Common Name: Tristar Transload, Inc.
Yrs of Operation: unknown
Comments: Inactive. Storage of lumber and wood products. Moved off-site, Fall 2002.
Updated Date: 12/30/2002
Updated By: JWAGGY
Decode for OpstatID: Inactive
Operations SIC Id: 197160
SIC Code: 2653
Created By: Not reported
Created Date: 12/17/2002

CRL:
Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
Facility ID: 2642
Location ID: 110644
Status Code: LIS
Facility Status: Partial No Further Action
Lat/Long: 45.5392 / -122.6898

Institutional Control:
Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 274
Site Id: 2642
Control Sequence #: 3
Begin Date: 06/09/2003
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Rod Struck, DEQ
Last Review Date: 06/10/2005
Last Updated By: GWISTAR
Last Updated Date: 05/20/2015
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: E&ES applies to Parcels 2 and 3. It requires notification of occupants/site workers of residual contamination; upper 3 feet of soil must meet urban residential levels; excavated soil must be managed in accordance with the selected remedy; and land use be limited to urban residential or commercial.

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH

RIVERNORTH (Continued) **S110730163**

Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	877
Site Id:	2642
Control Sequence #:	14
Begin Date:	06/09/2003
End Date:	Not reported
Frequency Of Review:	60
Last Reviewed By:	Rod Struck, DEQ
Last Review Date:	06/10/2005
Last Updated By:	GWISTAR
Last Updated Date:	05/20/2015
Group Sequence #:	4
Control Code:	EHN
Control Description:	Environmental Hazard Notice
FK Type Code:	1
Group Code:	SET
Group Description:	Statutory Enforcment Tools
Type Code:	I
Type Description:	Institutional
Comments:	For Parcels 2 and 3, required notification of occupants/site workers of residual contamination.

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	878
Site Id:	2642
Control Sequence #:	5
Begin Date:	06/09/2003
End Date:	Not reported
Frequency Of Review:	60
Last Reviewed By:	Rod Struck, DEQ
Last Review Date:	06/10/2005
Last Updated By:	GWISTAR
Last Updated Date:	05/20/2015
Group Sequence #:	2
Control Code:	USL
Control Description:	Use Restriction Land
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Land use is limited to urban residential or commercial only.

VCS:

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Institutional Control
Start Date:	09/26/2002
End Date:	Not reported
Program:	VCS
Latitude:	45.5392

RIVERNORTH (Continued) **S110730163**

Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Facility proposed for Inventory
Start Date:	11/19/2002
End Date:	11/19/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	PRELIMINARY ASSESSMENT EQUIVALENT
Start Date:	08/31/2000
End Date:	07/31/2001
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	REMEDIAL INVESTIGATION
Start Date:	08/31/2000
End Date:	07/31/2001
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Proposal for Inventory recommended
Start Date:	10/03/2002
End Date:	10/03/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Proposal for Confirmed Release List recommended
Start Date:	10/03/2002

RIVERNORTH (Continued) **S110730163**

End Date: 10/03/2002
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: RISK ASSESSMENT
Start Date: 10/10/2001
End Date: 07/12/2002
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: Letter Agreement
Start Date: 08/08/2000
End Date: 08/08/2000
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: SITE EVALUATION
Start Date: 08/08/2000
End Date: 08/31/2000
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: Letter Agreement
Start Date: 09/05/2002
End Date: Not reported
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642

RIVERNORTH (Continued) **S110730163**

Facility Size:	Approx. 15.6 acres
Action:	Facility proposed for Confirmed Release List
Start Date:	11/19/2002
End Date:	11/19/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	RECORD OF DECISION
Start Date:	07/15/2002
End Date:	12/18/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	REMEDIAL ACTION
Start Date:	09/26/2002
End Date:	09/26/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Partial No Further Action
Start Date:	08/27/2002
End Date:	08/27/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	REMOVAL
Start Date:	03/26/2002
End Date:	09/26/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898
Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH

RIVERNORTH (Continued) **S110730163**

Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	FEASIBILITY STUDY
Start Date:	07/06/2002
End Date:	07/12/2002
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Facility proposed for Inventory
Start Date:	01/14/2003
End Date:	01/14/2003
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	Facility proposed for Confirmed Release List
Start Date:	01/14/2003
End Date:	01/14/2003
Program:	VCS
Latitude:	45.5392
Longitude:	-122.6898

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	NEGOTIATIONS
Start Date:	04/01/2003
End Date:	06/09/2003
Program:	vcs
Latitude:	45.5392
Longitude:	-122.6898

Name:	PORT OF PORTLAND - TERMINAL 1 SOUTH
Address:	2100 NW FRONT AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2642
Facility Size:	Approx. 15.6 acres
Action:	REMOVAL
Start Date:	12/02/2002
End Date:	01/20/2003
Program:	vcs
Latitude:	45.5392

RIVERNORTH (Continued) **S110730163**

Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: Facility placed on Confirmed Release List
Start Date: 03/24/2003
End Date: 03/24/2003
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: RECORD OF DECISION
Start Date: 11/01/2002
End Date: 12/18/2002
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

Name: PORT OF PORTLAND - TERMINAL 1 SOUTH
Address: 2100 NW FRONT AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2642
Facility Size: Approx. 15.6 acres
Action: Facility placed on Inventory
Start Date: 03/24/2003
End Date: 03/24/2003
Program: VCS
Latitude: 45.5392
Longitude: -122.6898

OR UIC:
Name: PORT OF PORTLAND TERMINAL 1 SOUTH
Address: 2100 NW FRONT
City,State,Zip: PORTLAND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14244
Facility Status: Formal Closure
Lat/Long: 45.5392 / -122.6898

87
NE
1/4-1/2
0.345 mi.
1822 ft.

RIVER MILE 11E STUDY AREA - PORTLAND HARBOR
EAST BANK OF WILLAMETTE RIVER, BETWEEN RM 10.9 AND 11.6 (APP
PORTLAND, OR 97227

OR ECSI **S115330269**
N/A

Relative:
Lower

Actual:
35 ft.

ECSI:

Name:	RIVER MILE 11E STUDY AREA - PORTLAND HARBOR
Address:	EAST BANK OF WILLAMETTE RIVER, BETWEEN RM 10.9 AND 11.6 (APPROX.)
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	5860
Brown ID:	0
Study Area:	True
Region ID:	Not reported
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	130304
Further Action:	0
Lat/Long (dms):	45 32 13.90 / -122 40 36.80
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	PSEIDEL
Update Date:	01/14/2021
Created Date:	11/27/2013
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5754924
NARR Code:	Contamination
Created By:	GWISTAR
Created Date:	11/27/2013
Updated By:	DHAFLEY
Updated Date:	01/12/2018
Decode for NarcdID:	Contamination

NARR Comments: (11/27/13 DH) Attention to the RM11E area is based on the detection of elevated PCBs and other contaminants in river sediment; an Area of Potential Concern and Sediment Management Area have been identified for sediment in the area as part of Portland Harbor work.
(01/12/2018) A RM11E Sediment Decision Unit is identified in the January 2017 Record of Decision issued by EPA. The primary COCs for the area, as indicated in Figure 29 of the ROD, are total PCBs and dioxin (PeCDD).

NARR ID:	5755300
NARR Code:	Data Sources

RIVER MILE 11E STUDY AREA - PORTLAND HARBOR (Continued) **S115330269**

Created By: DHAFLEY
Created Date: 09/18/2014
Updated By: DHAFLEY
Updated Date: 05/23/2018
Decode for NarcdID: Data Sources
NARR Comments: 1) Final Supplemental Remedial Investigation/Feasibility Study Work Plan. RM11E Group, October 2013. 2) Supplemental Remedial Investigation/Feasibility Study Field Sampling and Data Report. RM11E Group, July 2014. 3) Porewater Sampling and Analysis Plan. RM11E Group, May 2014. 4) Draft Porewater Characterization Report. RM11E Group; 2015 5) Draft Implementability Study Report. RM11E Group; July 2015. 6) Final Porewater Characterization Report. RM11E Group; September 2015. 7) Administrative Settlement Agreemenet and Order on Consent for Supplemental RI/FS Work and Remedial Design, Amendment No. 1. RM11E Group and EPA. 2018. 8) Draft Basis of Design Work Plan (in-water). DOF; March 2018. 9) Revised Basis of Design Work Plan. DOF; May 2018. 10) Recontamination Assessment. GSI and DOF on behalf of RM11E Group; May 2018.

NARR ID: 5754925
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 11/27/2013
Updated By: DHAFLEY
Updated Date: 01/12/2018
Decode for NarcdID: Remedial Action
NARR Comments: (11/27/13 DJH) Investigation of in-water contamination and potential contribution from upland sources is being completed along the east bank of the Willamette River between approximately River Mile (RM) 10.9 and 11.6 for EPA by the so-called RM11E Group under a 2013 Settlement Agreement. An RI/FS work plan has been approved by EPA to better characterize the extent of contamination in the study area and prepare for early implementation under the Portland Harbor ROD. Proposed work includes collection and analysis of sediment and pore-water samples, riverbank sampling, and installation and monitoring of riverbank wells to assess potential impacts from upland sources. Work began in fall 2013 and will continued through 2014. EPA, DEQ and other parties are reviewing/overseeing site work. Work has been completed although a recontamination assessment is still outstanding. Multiple phases of work has been completed by RM11E Group participants, focusing on riverbank and in-water areas. Initial sampling results are presented in a Supplemental RI/FS Field Sampling and Data Report dated july 2014.

NARR ID: 5755301
NARR Code: 1922
Created By: DHAFLEY
Created Date: 09/18/2014
Updated By: DHAFLEY
Updated Date: 05/23/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Work is ongoing at the Portland Harbor/Willamette River River Mile 11 East (RM11E) area, under the direction of EPA Region 10, to support remedy selection and implementation in the area. Remedial action will be based on the january 2017 ROD issued for Portland Harbor by EPA. The RM11E area is an important area within the Harbor, being located at the most upstream end of the study area and containing high

RIVER MILE 11E STUDY AREA - PORTLAND HARBOR (Continued) **S115330269**

concentrations of contaminants, notably PCBs. It has been identified as an <quot>early action<quot> area by EPA. Important investigation work elements completed in the past few years under EPA have included: a) upland groundwater and riverbank investigation efforts; b) sediment investigation; c) porewater investigation; and d) remedy implementability analysis. In January 2018, an Administrative Steelement Agreement and Order on Conset for Supplemental RI/FS Work and Remedial Design, Amendment No. 1, was complete by EPA and the RM11E Group parties. In March 2018, a draft Basis of Design Report WP was submitted to EPA, and included DEQ review and comment. A revised document (BODR WP) was submitted to EPA. In May 2018, a Recontamination Assessment (upland and in-water) was submitted to EPA on behalf of the RM11E Group. The document is currently under review.

Administrative Action:

Action ID:	9424
Region:	Not reported
Complete Date:	11/27/2013
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	11/27/2013
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Not reported
Category:	Administrative Action
Action Code Flag:	False
Action:	Site added to database
Further Action:	Not reported
Comments:	Not reported

Action ID:	9484
Region:	Northwestern Region
Complete Date:	Not reported
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	11/27/2013
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Northwest Region
Category:	Remedial Action
Action Code Flag:	False
Action:	REMEDIAL INVESTIGATION
Further Action:	0
Comments:	Not reported

Z88 **ROSS ISLAND SAND & GRAVEL - N RIVER ST.** **OR ECSI** **S115330261**
NNE **1208 N RIVER ST.** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.346 mi.
1827 ft. **Site 2 of 3 in cluster Z**

Relative: **Lower**
Actual: **34 ft.**

ECSI:

Name:	ROSS ISLAND SAND & GRAVEL - N RIVER ST.
Address:	1208 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	5577
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0

ROSS ISLAND SAND & GRAVEL - N RIVER ST. (Continued) **S115330261**

Investigation:	Suspect
FACA ID:	4969
Further Action:	260
Lat/Long (dms):	45 32 20.76 / -122 40 47.64
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/24/2013
Created Date:	05/04/2011
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Low
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	Portland Harbor Sediment Study
Alias Name:	KF Jacobsen & Co., Inc.

Narrative:

NARR ID:	5754968
NARR Code:	Remedial Action
Created By:	GWISTAR
Created Date:	12/24/2013
Updated By:	GWISTAR
Updated Date:	12/24/2013
Decode for NarcdID:	Remedial Action

NARR Comments: (Aug. 2011) In a letter dated August 19, 2008, DEQ asked Ross Island Sand & Gravel Co. (RIS&G) undertake a Portland Harbor Source Control Evaluation for the property at 1208 N River St. in Portland. This request was based on the detection of elevated contaminants in sediment within the Willamette River in the vicinity of this site. The evaluation was to determine whether the site was a source of ongoing or potential future contaminant releases to the Willamette River. On October 15, 2008, DEQ received a letter from Aaron Courtney of Stoel Rives on behalf of RIS&G that laid out a rationale supporting the conclusion that RIS&G is not a liable party for the contamination cited in DEQ s letter. DEQ again contacted RIS&G in September 2010 to discuss its interest in having a source control evaluation conducted at the RIS&G site. After an exchange of information, RIS&G invited DEQ to tour the site on December 17, 2010. As a result of information obtained during the site visit and a review of additional sediment data collected in the vicinity of the RIS&G site, DEQ rescinded its request for a a source control evaluation. The basis for this decision is as follows: - RIS&G presented a series of aerial photos demonstrating that sand and gravel operations have taken place at the site since the early 1900s, and that the site was never within the footprint of the former Albina Engine Works shipyard. This information significantly diminishes DEQ

ROSS ISLAND SAND & GRAVEL - N RIVER ST. (Continued) **S115330261**

s concerns that polychlorinated biphenyls (PCBs) are likely to be present at the site (PCBs being the contaminant most notably elevated in river sediments in the area). - Stormwater is managed under an NPDES permit (1200A general stormwater permit for gravel mining operations). All site stormwater is collected and pre-treated by an oil/water separator prior to being discharged to the river via the City of Portland s Outfall 44A. - The site is above river level and the bank is well-armored. - Data collected in the vicinity of the site (including Outfall 44A) by the Lower Willamette Group and the City of Portland include three sediment and one bank soil samples. None had elevated PCB concentrations. nother sediment sample collected offshore from Outfall 44A had PCB concentration between 150-300 ug/kg. However, given that sediments closer to the outfall had relatively low PCB concentration, it is unlikely that the offshore PCBs are related to Outfall 44A discharges. Based upon these findings, DEQ determined that the RIS&G site is unlikely to have been a significant source of contamination to the river, or represent a current or future source provided that site operational activities do not change.

NARR ID: 5753236
NARR Code: 1922
Created By: KTARNOW
Created Date: 06/02/2011
Updated By: GWISTAR
Updated Date: 12/24/2013
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [Aug. 2011] DEQ has determined that the RIS&G site is unlikely to have been a significant source of past contamination to the Willamette River. DEQ has also concluded that the RIS&G site is unlikely to be a current or future source, provided that site operational activities do not change. See documents below for more details. DEQ's evaluation was limited to considering (and ultimately not requiring) a Source Control Decision, and thus did not include a full site review.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 05/04/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/04/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 08/24/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/02/2011
Decode for AgencyID: Department of Environmental Quality

ROSS ISLAND SAND & GRAVEL - N RIVER ST. (Continued) **S115330261**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 12/24/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/24/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Low
Comments: Not reported

Z89 **K.F. JACOBSEN & CO., INC.** **OR LUST** **U000433402**
NNE **1208 N RIVER ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.346 mi.
1827 ft. **Site 3 of 3 in cluster Z**

Relative:
Lower

Actual:
34 ft.

LUST:
Name: K.F. JACOBSEN & CO., INC.
Address: 1208 N RIVER ST
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-98-1133
Cleanup Received Date: 10/26/1998
Cleanup Start Date: 09/05/1998
Cleanup Complete Date: Not reported
Decode for Region: North West Region

UST:
Name: K.F. JACOBSEN & CO., INC.
Address: 1208 N RIVER ST
City: PORTLAND
Facility ID: 7317
Facility Telephone: (503) 239-5532
Permittee Name: GARY WRIGHT, GENERAL SUPERINTENDENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

90
SW
1/4-1/2
0.346 mi.
1829 ft.

ARMORED TRANSPORT NW INC
1015 NW 17TH AVE
PORTLAND, OR 97209

OR LUST **U000432370**
OR UST **N/A**

Relative:
Higher

Actual:
59 ft.

LUST:

Name:	ARMORED TRANSPORT N.W., INC.
Address:	1015 NW 17TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-88-0035
Cleanup Received Date:	05/03/1988
Cleanup Start Date:	05/03/1988
Cleanup Complete Date:	**06/10/2002**
Decode for Region:	**North West Region**

UST:

Name:	ARMORED TRANSPORT NW INC
Address:	1015 NW 17TH AVE
City:	PORTLAND
Facility ID:	8529
Facility Telephone:	(503) 239-4000
Permittee Name:	JOHN WINTERS, MANAGER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	2
Number of Tanks:	2

AB91
SSW
1/4-1/2
0.347 mi.
1830 ft.

K T GALV INC
820 NW 15TH AVE
PORTLAND, OR 97209
Site 1 of 2 in cluster AB

SEMS-ARCHIVE **1000251915**
RCRA NonGen / NLR **ORD980665350**

Relative:
Higher

Actual:
48 ft.

SEMS Archive:

Site ID:	1000487
EPA ID:	ORD980665350
Name:	PACIFIC STATES GALVANIZING INC
Address:	805 NW 14TH AV
Address 2:	Not reported
City,State,Zip:	PORTLAND, OR 97209
Cong District:	01
FIPS Code:	41051
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	10
Site ID:	1000487
EPA ID:	ORD980665350
Site Name:	PACIFIC STATES GALVANIZING INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported

K T GALV INC (Continued) **1000251915**

Finish Date: 1987-12-31 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 10
Site ID: 1000487
EPA ID: ORD980665350
Site Name: PACIFIC STATES GALVANIZING INC
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-06-26 05:00:00
Finish Date: 1984-08-01 05:00:00
Qual: H
Current Action Lead: EPA Perf

Region: 10
Site ID: 1000487
EPA ID: ORD980665350
Site Name: PACIFIC STATES GALVANIZING INC
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1979-11-01 05:00:00
Finish Date: 1979-11-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 10
Site ID: 1000487
EPA ID: ORD980665350
Site Name: PACIFIC STATES GALVANIZING INC
NPL: N
FF: N
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1985-01-01 06:00:00
Finish Date: 1987-12-31 05:00:00
Qual: N
Current Action Lead: EPA Perf

RCRA NonGen / NLR:
Date Form Received by Agency: 20010416
Handler Name: K T GALV INC
Handler Address: 820 NW 15TH AVE
Handler City,State,Zip: PORTLAND, OR 97209
EPA ID: ORD980665350
Contact Name: KERN CAVANAUGH

K T GALV INC (Continued) **1000251915**

Contact Address:	3350 SW HAZELBRUSH CT
Contact City,State,Zip:	WILSONVILLE, OR 97070
Contact Telephone:	503-682-2128
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3350 SW HAZELBRUSH CT
Mailing City,State,Zip:	WILSONVILLE, OR 97070
Owner Name:	TERRY AARNIO / KERN CAVANA
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

K T GALV INC (Continued) **1000251915**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20100312
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	NONE
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KERN M CAVANAUGH
Legal Status:	Private
Date Became Current:	19950227
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH COURT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19980401
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KERN M CAVANAUGH
Legal Status:	Private
Date Became Current:	19990406
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH COURT

K T GALV INC (Continued) **1000251915**

Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19920302
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19960301
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19950227
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	KERN M CAVANAUGH
Legal Status:	Private
Date Became Current:	19960301
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH COURT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	KERN M CAVANAUGH
Legal Status:	Private

K T GALV INC (Continued) **1000251915**

Date Became Current:	19980401
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH COURT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19930305
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	KERN M CAVANAUGH
Legal Status:	Private
Date Became Current:	19940228
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH COURT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRANCE AARNIO
Legal Status:	Private
Date Became Current:	19990406
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-692-8888
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TERRY AARNIO / KERN CAVANA
Legal Status:	Private
Date Became Current:	19990406
Date Ended Current:	Not reported
Owner/Operator Address:	3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip:	WILSONVILLE, OR 97070
Owner/Operator Telephone:	503-682-2128
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

K T GALV INC (Continued) **1000251915**

Owner/Operator Indicator: Owner
Owner/Operator Name: TERRY AARNIO / KERN CAVANA
Legal Status: Private
Date Became Current: 20010416
Date Ended Current: Not reported
Owner/Operator Address: 3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip: WILSONVILLE, OR 97070
Owner/Operator Telephone: 503-682-2128
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TERRANCE AARNIO
Legal Status: Private
Date Became Current: 19970303
Date Ended Current: Not reported
Owner/Operator Address: 3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip: WILSONVILLE, OR 97070
Owner/Operator Telephone: 503-692-8888
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KERN M CAVANAUGH
Legal Status: Private
Date Became Current: 19970303
Date Ended Current: Not reported
Owner/Operator Address: 3350 SW HAZELBRUSH COURT
Owner/Operator City,State,Zip: WILSONVILLE, OR 97070
Owner/Operator Telephone: 503-682-2128
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TERRY AARNIO / KERN CAVANA
Legal Status: Private
Date Became Current: 20000112
Date Ended Current: Not reported
Owner/Operator Address: 3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip: WILSONVILLE, OR 97070
Owner/Operator Telephone: 503-682-2128
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TERRANCE AARNIO
Legal Status: Private
Date Became Current: 19940228
Date Ended Current: Not reported
Owner/Operator Address: 3350 SW HAZELBRUSH CT
Owner/Operator City,State,Zip: WILSONVILLE, OR 97070
Owner/Operator Telephone: 503-692-8888
Owner/Operator Telephone Ext: Not reported

K T GALV INC (Continued) **1000251915**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19930305
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920302
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940228
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950227
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960301

K T GALV INC (Continued) **1000251915**

Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970303
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980401
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990406
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990406
Handler Name: K T GALV INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

K T GALV INC (Continued) **1000251915**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000112
Handler Name: K T GALV INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010416
Handler Name: K T GALV INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920301
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960301
Handler Name: PACIFIC STATES GALVANIZING INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

K T GALV INC (Continued) **1000251915**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 33991
NAICS Description: JEWELRY AND SILVERWARE MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19851031
Actual Return to Compliance Date: 19851130
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19851115
Enforcement Identifier: 005
Date of Enforcement Action: 19851031
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19840625
Actual Return to Compliance Date: 19840727
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19840901
Enforcement Identifier: 001
Date of Enforcement Action: 19840627
Enforcement Responsible Agency: State

K T GALV INC (Continued) **1000251915**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

K T GALV INC (Continued) **1000251915**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19851031
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19851130
Scheduled Compliance Date: 19851115
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19840625
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19840727
Scheduled Compliance Date: 19840901
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19890214
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R0DP
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

AC92 **OREGON STATE HWY PROPERTY** **OR LUST** **S102959716**
WNW **NW 19TH & THURMAN** **N/A**
1/4-1/2 **PORTLAND, OR 97023**
0.347 mi.
1832 ft. **Site 1 of 2 in cluster AC**

Relative: **Higher**
Actual: **46 ft.**

LUST:

Name:	OREGON STATE HWY PROPERTY
Address:	NW 19TH & THURMAN
City,State,Zip:	PORTLAND, OR 97023
Region:	North Western Region
Facility ID:	26-88-0066
Cleanup Received Date:	09/27/1988
Cleanup Start Date:	09/27/1988
Cleanup Complete Date:	**12/12/1988**
Decode for Region:	**North West Region**

AB93 **PACIFIC STATES GALVANIZING (FORMER)** **OR ECSI** **S102521614**
SSW **820 NW 15TH AVE.** **OR CRL** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR VCP**
0.351 mi.
1851 ft. **Site 2 of 2 in cluster AB**

Relative: **Higher**
Actual: **54 ft.**

ECSI:

Name:	PACIFIC STATES GALVANIZING (FORMER)
Address:	820 NW 15TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	1024
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Listed on the CRL/Inventory
FACA ID:	8903
Further Action:	0
Lat/Long (dms):	45 31 43.70 / -122 41 10.70
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	980665350
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	AD
Tax Lots:	50000 & 60000
Size:	0.94 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	10/18/2011
Created Date:	03/28/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name:	Ace Galvanizing
Alias Name:	Edge Lofts

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Hazardous Release:
Substance ID.: 121668
Haz Release ID: 381772
Qty Released: unknown
Date Released: unknown
Update Date: 08/04/2005
Update By: DBAYUK
Substance Code: 7440-43-9
Substance Name: CADMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8460
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8460
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319291
Sub Alias Name: CD
Sampling Result ID: 348270
Feature Id: 0
Hazard Release Id: 381772
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/17/2004
End Date: 03/17/2004
Min Concentration: Not reported
Max Concentration: 380.00
Sample Comment: up to 380 ppb
Last Update By: KDANA
Update Date: 11/09/2011
Decode for MediumID: Groundwater
Sampling Result ID: 340188
Feature Id: 0
Hazard Release Id: 381772
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/05/1998
End Date: 01/05/1998
Min Concentration: Not reported
Max Concentration: 409.00
Sample Comment: up to 409 ppb
Last Update By: KDANA
Update Date: 10/31/2011

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Decode for MediumID: Groundwater

Substance ID.: 121679
Haz Release ID: 383286
Qty Released: unknown
Date Released: unknown
Update Date: 06/25/1992
Update By: Not reported
Substance Code: 7440-66-6
Substance Name: ZINC
Substance Abbrev.: Not reported
Substance Alias ID: 319302
Sub Alias Name: ZN
Comment ID: 305378
Release Code: Release Containment
Release Comments: Zinc first detected in soil at the site in 1991. Highest soil concentrations found beneath plating tanks / process vats.
Decode for Relcomcd: Release Containment
Comment ID: 305379
Release Code: Media Contamination Footnote
Release Comments: Surface soil sample collected from south side of plating tanks
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 348271
Feature Id: 0
Hazard Release Id: 383286
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/17/2004
End Date: 03/17/2004
Min Concentration: Not reported
Max Concentration: 401000.00
Sample Comment: up to 401,000 ppb
Last Update By: KDANA
Update Date: 11/09/2011
Decode for MediumID: Groundwater
Sampling Result ID: 348272
Feature Id: 0
Hazard Release Id: 383286
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 30 feet bgs
Start Date: 12/14/2000
End Date: 12/14/2000
Min Concentration: Not reported
Max Concentration: 2400.00
Sample Comment: up to 2,400 ppm
Last Update By: KDANA
Update Date: 11/09/2011

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Decode for MediumID:	Soil
Sampling Result ID:	350252
Feature Id:	0
Hazard Release Id:	383286
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Surface
Start Date:	11/30/1991
End Date:	11/30/1991
Min Concentration:	Not reported
Max Concentration:	13900.00
Sample Comment:	up to 13,900 ppm
Last Update By:	KDANA
Update Date:	10/26/2011
Decode for MediumID:	Soil
Sampling Result ID:	350255
Feature Id:	0
Hazard Release Id:	383286
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Surface
Start Date:	05/02/1996
End Date:	05/02/1996
Min Concentration:	Not reported
Max Concentration:	46000.00
Sample Comment:	up to 46,000 ppm
Last Update By:	KDANA
Update Date:	10/27/2011
Decode for MediumID:	Soil
Sampling Result ID:	350260
Feature Id:	0
Hazard Release Id:	383286
Medium:	698
Substance Abbrev.:	0
Unit Code:	8
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	05/16/2000
End Date:	05/16/2000
Min Concentration:	Not reported
Max Concentration:	229000.00
Sample Comment:	up to 229,000 ppb
Last Update By:	KDANA
Update Date:	11/03/2011
Decode for MediumID:	Groundwater
Sampling Result ID:	340187
Feature Id:	0

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Hazard Release Id: 383286
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/13/1998
End Date: 05/13/1998
Min Concentration: Not reported
Max Concentration: 3300000.00
Sample Comment: up to 3,300,000 ppb
Last Update By: KDANA
Update Date: 10/31/2011
Decode for MediumID: Groundwater

Substance ID.: 121671
Haz Release ID: 383287
Qty Released: unknown
Date Released: unknown
Update Date: 06/25/1992
Update By: Not reported
Substance Code: 7440-47-3
Substance Name: CHROMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318145
Sub Alias Name: CHROMIUM, INORGANIC
Substance Alias ID: 319294
Sub Alias Name: CHROMIUM, TOTAL
Comment ID: 305374
Release Code: Release Containment
Release Comments: Chromium first detected in soil at the site in 1991. Highest soil concentrations found beneath plating tanks / process vats.
Decode for Relcomcd: Release Containment
Comment ID: 305375
Release Code: Media Contamination Footnote
Release Comments: Surface soil sample collected on south side of plating tanks
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 350250
Feature Id: 0
Hazard Release Id: 383287
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Lab Data: True
Sample Depth: Surface
Start Date: 11/30/1991
End Date: 11/30/1991
Min Concentration: Not reported
Max Concentration: 74.10
Sample Comment: up to 74.1 ppm
Last Update By: KDANA
Update Date: 10/26/2011
Decode for MediumID: Soil
Sampling Result ID: 350253
Feature Id: 0
Hazard Release Id: 383287
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Surface
Start Date: 05/02/1996
End Date: 05/02/1996
Min Concentration: Not reported
Max Concentration: 320.00
Sample Comment: up to 320 ppm
Last Update By: KDANA
Update Date: 10/27/2011
Decode for MediumID: Soil
Sampling Result ID: 350257
Feature Id: 0
Hazard Release Id: 383287
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/13/1998
End Date: 05/13/1998
Min Concentration: Not reported
Max Concentration: 133.00
Sample Comment: up to 133 ppb
Last Update By: KDANA
Update Date: 10/31/2011
Decode for MediumID: Groundwater

Substance ID.: 121639
Haz Release ID: 383288
Qty Released: unknown
Date Released: unknown
Update Date: 06/25/1992
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8466
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319256
Sub Alias Name:	PB
Comment ID:	305376
Release Code:	Release Containment
Release Comments:	Lead first detected in soil at the site in 1991. Highest soil concentrations found beneath plating tanks / process vats. Concentrations generally decreased below 10 ft bgs.
Decode for Relcomcd:	Release Containment
Comment ID:	305377
Release Code:	Media Contamination Footnote
Release Comments:	Surface soil sample collected from west side of plating tanks
Decode for Relcomcd:	Media Contamination Footnote
Sampling Result ID:	350251
Feature Id:	0
Hazard Release Id:	383288
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Surface
Start Date:	12/14/1991
End Date:	12/14/1991
Min Concentration:	Not reported
Max Concentration:	222.00
Sample Comment:	up to 222 ppm
Last Update By:	KDANA
Update Date:	10/26/2011
Decode for MediumID:	Soil
Sampling Result ID:	350254
Feature Id:	0
Hazard Release Id:	383288
Medium:	703
Substance Abbrev.:	0
Unit Code:	7
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Surface
Start Date:	05/02/1996
End Date:	05/02/1996
Min Concentration:	Not reported
Max Concentration:	360.00
Sample Comment:	up to 360 ppm
Last Update By:	KDANA
Update Date:	10/27/2011
Decode for MediumID:	Soil

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Sampling Result ID: 345590
Feature Id: 0
Hazard Release Id: 383288
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7.5 ft bgs
Start Date: 12/09/1996
End Date: 12/09/1996
Min Concentration: Not reported
Max Concentration: 3000.00
Sample Comment: up to 3,000 ppm
Last Update By: KDANA
Update Date: 10/31/2011
Decode for MediumID: Soil

Substance ID.: 121011
Haz Release ID: 386630
Qty Released: unknown
Date Released: unknown
Update Date: 08/03/2005
Update By: DBAYUK
Substance Code: 127-18-4
Substance Name: TETRACHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8519
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8519
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316912
Sub Alias Name: ETHENE,TETRACHLORO-
Substance Alias ID: 316913
Sub Alias Name: ETHYLENE TETRACHLORIDE
Substance Alias ID: 316914
Sub Alias Name: PERCHLOROETHYLENE
Substance Alias ID: 316915
Sub Alias Name: PERCLENE
Substance Alias ID: 316916

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Sub Alias Name: TETRACHLOROETHENE
Substance Alias ID: 316917
Sub Alias Name: TETRACHLOROETHENE,1,1,2,2-
Substance Alias ID: 316918
Sub Alias Name: TETRACHLOROETHYLENE,1,1,2,2-
Sampling Result ID: 348279
Feature Id: 0
Hazard Release Id: 386630
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/16/2000
End Date: 05/16/2000
Min Concentration: Not reported
Max Concentration: 10.30
Sample Comment: up to 10.3 ppb
Last Update By: KDANA
Update Date: 11/03/2011
Decode for MediumID: Groundwater
Sampling Result ID: 350258
Feature Id: 0
Hazard Release Id: 386630
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 01/05/1998
End Date: 01/05/1998
Min Concentration: Not reported
Max Concentration: 5.17
Sample Comment: up to 5.17 ppb
Last Update By: KDANA
Update Date: 10/31/2011
Decode for MediumID: Groundwater

Substance ID.: 121664
Haz Release ID: 387878
Qty Released: unknown
Date Released: unknown
Update Date: 10/31/2011
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8439

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 350256
Feature Id: 0
Hazard Release Id: 387878
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/13/1998
End Date: 05/13/1998
Min Concentration: Not reported
Max Concentration: 2030.00
Sample Comment: up to 2,030 ppb
Last Update By: KDANA
Update Date: 10/31/2011
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5739325
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 01/24/2017
Decode for NarcdID: Contamination
NARR Comments: (01/25/2017 KPD/VCP) Zinc galvanizers reportedly began operating at the site in 1967. In the spring of 1979, when Ace Galvanizing was operating at the site, DEQ received multiple reports of discharges from the site running down 14th Avenue. A sample of one discharge found 140,000 mg/L zinc and a pH of 1.0. At 12:30 AM on July 4, 1979 a four-alarm fire broke out at the facility, shutting it down until February 1980. In the days after the fire, city inspectors witnessed the dumping of an estimated 40,000 to 60,000 gallons of sulfuric acid, caustic soda, and solutions containing lead and zinc from the acid bath and wash tanks. An EPA assessment in 1984 noted that there were reports of waste sludges having been buried (and subsequently paved over) at the site. EPA also noted <quot>numerous<quot> reports of fumes being released from the building. Beginning in May 1986, PSG began monthly monitoring (for pH and zinc) of their industrial wastewater discharges under a City of Portland permit. The monitoring continued until February 1990, when an acid regeneration system came on-line and eliminated the discharges. A DEQ contractor conducted a Preliminary Assessment at the site in 1991. PSG signed up with DEQ's Voluntary Cleanup Program at the same time. Soil samples were collected from seven borings at the site in Nov-Dec 1991 and analyzed for metals, finding up to 74.1 ppm chromium, 222 ppm lead and 13,900 ppm zinc. DEQ determined in June 1992 that no further action was necessary. PSG ended operations at the site in December 1995 and relocated to Tualatin. The process vats, rinse waters and sludges were removed from the facility in May 1996. Soil samples from beneath

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

the vats found up to 320 ppm chromium, 360 ppm lead, and 46,000 ppm zinc. PSG re-entered the VCP in July 1996. Additional soil samples were collected from borings at the site in December 1996 and December 1997 to determine the extent of lead contamination. Lead was detected at concentrations up to 3,000 ppm beneath the former vats, with concentrations generally decreasing below 10 feet bgs. Four groundwater monitoring wells and two groundwater extraction wells were installed at the site from December 1997 through May 1998. Sampling found high levels of arsenic (up to 2,080 ppb), cadmium (409 ppb), chromium (133 ppb), and PCE (5.17 ppb), and very high levels of zinc (3,300,000 ppb). Contaminated soils beneath the vats were excavated to a depth of 15 feet bgs and removed from the site in October 1998. Resampling of the six wells in May 2000 found much lower concentrations of metals (with zinc dropping to 229,000 ppb), but PCE increased to 10.3 ppb. The project was dropped from the VCP due to inactivity in July 2001. Redevelopment of the site began in the summer of 2002. The six monitoring and extraction wells were decommissioned in August 2002, and over 2,600 tons of contaminated soil were removed in October 2002. The project developer signed up for oversight through DEQ's Independent Cleanup Pathway in January 2004 to address the remaining issues at the site. A monitoring well was installed in NW 14th Avenue in March 2004 to determine the magnitude of residual groundwater contamination. Zinc was detected at a concentration of 401,000 ppb. (Zinc had previously been detected in the soil beneath 14th Avenue at concentrations up to 2,400 ppm).

NARR ID: 5739326
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 01/25/2017
Decode for NarcdID: Data Sources
NARR Comments: 1) Ecology & Environment <quot>Preliminary Site Inspection Report<quot> [January 18, 1985]. 2) Parametrix <quot>Preliminary Assessment Part 1<quot> [June 28, 1991]. 3) GRI <quot>Preliminary Assessment Part 3 Data Evaluation Report<quot> [February 19, 1992]. 4) NW Geotech <quot>Simple Site Cleanup Report<quot> [July 1, 1996]. 5) NW Geotech <quot>Subsurface Characterization<quot> [July 16, 1998]. 6) UnderCover RV <quot>Remedial Excavation<quot> [January 10, 1999]. 7) GRI <quot>Groundwater Characterization Report<quot> [October 26, 2001]. 8) GRI <quot>Independent Cleanup Pathway Final Report<quot> [October 15, 2004]. 9) GSI <quot>Request for No Further Action Determination<quot> [December 4, 2015].

NARR ID: 5746937
NARR Code: General Site Description
Created By: DBAYUK
Created Date: 08/03/2005
Updated By: KDANA
Updated Date: 11/08/2011
Decode for NarcdID: General Site Description
NARR Comments: The site covers a full city block in northwest Portland. The eastern two-thirds of the block is currently occupied by The Edge Lofts, a 10-story commercial and residential building with one floor of subgrade parking. A 3-story parking structure (with one floor of subgrade parking) is on the western third of the block.

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

NARR ID: 5739327
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 10/27/2011
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Zinc, lead, chromium, hydrochloric acid, sulfuric acid, sodium hydroxide, ammonium chloride

NARR ID: 5746936
NARR Code: Site Location
Created By: DBAYUK
Created Date: 08/03/2005
Updated By: KDANA
Updated Date: 11/09/2011
Decode for NarcdID: Site Location
NARR Comments: The site covers an entire city block in northwest Portland, bounded by NW Kearney & Johnson Streets to the north and south, and NW 14th & 15th Avenues to the east and west. The address for The Edge Lofts is 1410 NW Kearney Street, and the address for REI (Recreational Equipment Inc., the ground-floor retail tenant) is 1405 NW Johnson Street.

NARR ID: 5746940
NARR Code: Manner of Release
Created By: DBAYUK
Created Date: 08/03/2005
Updated By: KDANA
Updated Date: 10/27/2011
Decode for NarcdID: Manner of Release
NARR Comments: Contamination in soil and groundwater at the site was likely due to waste handling practices in the late-1960s and 1970s. There were reports that waste sludges had been buried at the site. DEQ and City of Portland inspectors documented overflowing wash tanks and the dumping of tank contents (after a fire) in 1979. The liquids discharged to an on-site dry well and ran down 14th Avenue to a storm sewer drain at 14th & Kearney. (The dry well was reportedly decommissioned after the fire). From 1986 to 1990, wastewaters were discharged to the sewers, possibly corroding the pipes and leading to further releases. Plating operations ended at the site in December 1995.

NARR ID: 5753646
NARR Code: Site Ownership
Created By: KDANA
Created Date: 10/20/2011
Updated By: KDANA
Updated Date: 01/25/2017
Decode for NarcdID: Site Ownership
NARR Comments: The site has been owned by the Marshall Wells Company (prior to 1959), the Schnitzer family and Schnitzer Investment Corporation (1959-1976), Dave & Corine Breiwick (1976-1981), Terry Aarnio (1981-2000), and John Carroll (2001-2004). Operators have included Ace Galvanizing (1976-1981) and Pacific States Galvanizing (1981-1995). The Edge Lofts opened in June 2004.

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

NARR ID: 5739328
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 01/25/2017
Decode for NarcdID: Remedial Action
NARR Comments: (01/25/2017 KPD/VCP) Soil samples were collected from seven borings at the site in late 1991 as part of an expanded Preliminary Assessment. Chromium, lead, and zinc were detected. DEQ determined that the contamination was below risk-based standards, and issued a No Further Action letter in June 1992. PSG ceased operations at the site in December 1995. The plating tanks/process vats were removed from the site in May 1996, along with 7.36 tons of caustic sludge, 38,000 lbs of bottom sludges, 4,100 gallons of zinc ammonium chloride, 1,600 gallons of waste sulfuric acid, and 600 gallons of waste sodium hydroxide. Sampling beneath the vats found chromium, lead and zinc in the soil, and PSG re-entered the VCP in July 1996. Additional soil sampling was conducted in December 1996 and December 1997 to determine the extent of lead contamination in the soil. Groundwater monitoring wells were installed through May 1998 to determine the nature and extent of groundwater contamination. In October 1998, a total of 1,885.74 tons of lead-contaminated soil were excavated and removed from beneath the process vats to a depth of 15 feet bgs. The soil was shipped to the Hillsboro Landfill for disposal. Confirmation sampling (for lead) found only 150 ppm lead remaining. DEQ signed-off on the removal in September 1999. There are indications that a groundwater extraction and treatment system was intended to operate at the site in 1999, but DEQ received no information on such a system. The project was dropped from the VCP in July 2001 due to inactivity. Redvelopment of the site began in the summer of 2002. The six on-site wells (for groundwater monitoring and extraction) were decommissioned in August 2002. In October 2002, a total of 2,623.43 tons of contaminated soil were excavated from the site and shipped to the Hillsboro Landfill for disposal. The project developer subsequently signed up for DEQ oversight through the Independent Cleanup Pathway in January 2004. A monitoring well installed in NW 14th Avenue in March 2004 found up to 401,000 ppb zinc remaining in the groundwater. The new development (The Edge Lofts) was completed in June 2004. The project remained open because the nature and extent of the groundwater contamination had not been determined. The project was dropped from the ICP in June 2013 due to inactivity. A new property owner joined the VCP in September 2015. A groundwater evaluation and residual risk assessment was conducted to demonstrate that zinc in the groundwater was not hazardous and would not migrate more than two blocks downgradient (east) from the site. DEQ agreed in January 2017 that no additional investigation or cleanup of the groundwater was necessary. However, documentation for a formal NFA determination has not been completed.

NARR ID: 5753704
NARR Code: Health Threats
Created By: KDANA
Created Date: 11/10/2011
Updated By: KDANA
Updated Date: 01/24/2017
Decode for NarcdID: Health Threats

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

NARR Comments: DEQ has determined that there are no complete exposure pathways at the site.

NARR ID: 5746942
NARR Code: Site History
Created By: DBAYUK
Created Date: 08/04/2005
Updated By: KDANA
Updated Date: 11/08/2011
Decode for NarcdID: Site History
NARR Comments: Residences were present on the southern half of the block as early as 1889. The Marshall-Wells warehouse was constructed on the NE corner of the block prior to 1908. From 1908 to 1950 the warehouse gradually expanded to cover the whole block. Zinc galvanizing operations reportedly began at the site in 1967. Ace Galvanizing utilized the site for galvanizing work from 1976 to 1981. Pacific States Galvanizing acquired the property in 1981. PSG performed galvanizing work on the property from 1981 until December 1995, when it relocated its operations to Tualatin. The plating tanks (process vats) were removed in May 1996, and over 1,800 tons of contaminated soil were excavated from beneath the tanks in October 1998. An additional 2,600 tons of contaminated soil were removed in October 2002 as the property was redeveloped into The Edge Lofts, which opened in June 2004.

Administrative Action:
Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 09/21/1999
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/23/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 06/30/2013
Rank Value: Not reported

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Cleanup Flag: False
Created Date: 01/23/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Headquarters
Complete Date: 06/17/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9457
Region: Not reported
Complete Date: 08/01/1984
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Basic Preliminary Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9512
Region: Not reported
Complete Date: 12/31/1987
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Screening Site Inspection 1
Further Action: Not reported
Comments: Not reported

Action ID: 9444
Region: Not reported
Complete Date: 12/31/1987
Rank Value: 0
Cleanup Flag: False

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Action ID: 9520
Region: Headquarters
Complete Date: 06/17/1992
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: EXPANDED PRELIMINARY ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 06/28/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Headquarters
Complete Date: 11/29/1991
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 01/02/1997
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9421
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 01/24/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 01/24/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 10/05/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 10/05/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 08/26/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 08/26/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 09/24/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 09/24/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9451
Region: Headquarters
Complete Date: 10/29/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Northwestern Region
Complete Date: 08/25/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 07/22/1996
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Headquarters
Complete Date: 04/19/1991
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/03/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 07/16/1998
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/31/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: 0
Complete Date: 10/26/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/08/2011
Decode for AgencyID: Other
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 01/12/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/09/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9505
Region: Northwestern Region
Complete Date: 06/30/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/29/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Confirmatory Sampling recommended
Further Action: 0
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 09/23/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/25/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 01/25/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/25/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132331
Operation Status: Inactive
Common Name: Pacific States Galvanizing
Yrs of Operation: 1981-1995
Comments: Zinc galvanizing
Updated Date: 12/21/2015
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 194910
SIC Code: 3479
Created By: Not reported

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Created Date: 12/17/2002

CRL:
Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
Facility ID: 1024
Location ID: 8903
Status Code: LIS
Facility Status: RISK ASSESSMENT
Lat/Long: 45.5288 / -122.6863

VCS:
Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Proposal for Inventory recommended
Start Date: 08/26/1998
End Date: 08/26/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: VCS Waiting List
Start Date: 08/21/2015
End Date: 09/23/2015
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Listing Review completed
Start Date: 08/25/1998
End Date: 08/25/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Facility proposed for Inventory
Start Date: 09/24/1998

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

End Date: 09/24/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Facility proposed for Confirmed Release List
Start Date: 09/24/1998
End Date: 09/24/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: SITE INVESTIGATION
Start Date: 12/09/1996
End Date: 07/16/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Letter Agreement
Start Date: 04/02/1991
End Date: 04/19/1991
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Letter Agreement
Start Date: 07/15/1996
End Date: 07/22/1996
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Facility Size: 0.94 acres
Action: NEGOTIATIONS
Start Date: 07/22/1996
End Date: 01/02/1997
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: REMOVAL
Start Date: 10/15/1998
End Date: 09/21/1999
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 06/17/1992
End Date: 06/17/1992
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: NEGOTIATIONS
Start Date: 04/19/1991
End Date: 11/29/1991
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Proposal for Confirmed Release List recommended
Start Date: 08/26/1998
End Date: 08/26/1998
Program: VCS
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Independent Cleanup Program
Start Date: 01/12/2004
End Date: 06/30/2013
Program: ICP
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Letter Agreement
Start Date: 12/20/2003
End Date: 01/12/2004
Program: ICP
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: Site Confirmatory Sampling recommended
Start Date: 06/30/2013
End Date: 06/30/2013
Program: ICP
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: RISK ASSESSMENT
Start Date: 09/23/2015
End Date: 01/25/2017
Program: VCP
Latitude: 45.5288
Longitude: -122.6863

Name: PACIFIC STATES GALVANIZING (FORMER)
Address: 820 NW 15TH AVE.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 1024
Facility Size: 0.94 acres
Action: EXPANDED PRELIMINARY ASSESSMENT
Start Date: 11/30/1991
End Date: 06/17/1992
Program: VCS
Latitude: 45.5288

PACIFIC STATES GALVANIZING (FORMER) (Continued) **S102521614**

Longitude: -122.6863

AD94 **GLACIER NORTHWEST INC** **OR ECSI** **S108662246**
NNE **1050 N RIVER ST** **OR AST** **N/A**
1/4-1/2 **PORTLAND, OR 97227** **OR VCP**
0.352 mi.
1859 ft. **Site 1 of 2 in cluster AD**

Relative: **Lower**
Actual: **34 ft.**

ECSI:

Name:	GLACIER NORTHWEST
Address:	1050 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	5449
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	5595
Further Action:	0
Lat/Long (dms):	45 32 17.20 / -122 40 42.20
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Approx. 5.1 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	07/14/2014
Created Date:	12/02/2010
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	Lonestar Northwest
Alias Name:	Kaiser Cement & Gypsum
Alias Name:	Portland Harbor Sediment Study
Alias Name:	CalPortland

Narrative:

NARR ID:	5752995
NARR Code:	Contamination
Created By:	DHAFLEY
Created Date:	03/11/2011
Updated By:	DHAFLEY
Updated Date:	03/11/2011
Decode for NarcdID:	Contamination
NARR Comments:	Possible contamination related to historical activities including shipbulding and operation of a fuel company (with presumed storage and distribution) on-site. These could include metals, PCBs, TPH,

GLACIER NORTHWEST INC (Continued) **S108662246**

volatile and semi-volatile organic compounds, and butyl tins. In limited sampling to date with narrow contaminant anaysis, petroluem hydrocarbons and VOCs (dichlorobenzenes) have been detected in soil, and VOCs (TCE and PCE) and phthalates in groundwater.

NARR ID: 5752996
NARR Code: Disposals
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Disposals
NARR Comments: Unknown disposal history. Some on-site disposal possible related to historical ship-building activities.

NARR ID: 5752997
NARR Code: Data Sources
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 10/23/2018
Decode for NarcdID: Data Sources
NARR Comments: Environmental Audit of Coast Marine Construction, Inc. Prepared for Lone Star Industries by Morrison-Knudsen Engineers, Inc., February 1988. Storm Water Source Control Screening Evaluation Work Plan, Portland Cement Terminal. Prepared by ERM for Glacier Northwest Inc., February 2011. (Final) Storm Water Source Control Screening Evaluation Work Plan. ERM, May 2011. DEQ memorandum on site riverbank inspection, October 7, 2011. Draft Stormwater Source Control Screening Evaluation. ERM, May 2012. Riverbank Soil Source Control Screening Evaluation. ERM, May 2013. Final Storm Water Source Control Screening Evaluation. ERM, May 2013. Source Control Evaluation. Apex, October 29, 2014. CalPortland Source Control Measures Implementation Report. Apex; November 29, 2018. Draft Phthalate Source Survey. Apex; September 27, 2018.

NARR ID: 5752998
NARR Code: General Site Description
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: GWISTAR
Updated Date: 08/12/2013
Decode for NarcdID: General Site Description
NARR Comments: The Glacier Northwest Portland Cement Terminal is located on the east bank of the Willamette River, approximately between RM 11.15 and 11.35. The facility is owned and operated by Glacier NW as a cement distribution facility. The site consists of two parcels (North Parcel and South Parcel) with a total area of approximately 5.1 acres, and is largely paved. Bulk cement is delivered by ship, pneumatically conveyed to on-site storage buildings, and then loaded into customer trucks and railcars for off-site delivery. There is bulk distribution only, with no manufacture or processing of cement on site. Small volumes of non-contact cooling water are discharged via a dedicated outfall under a NPDES 100J permit. Stormwater is discharged from the site via three main private outfalls. A private connection to the existing City of Portland stormwater system (discharge point OF-44) is currently being eliminated. Glacier sues common fluids/oils in

GLACIER NORTHWEST INC (Continued) **S108662246**

hydraulic systems, and operates 3 above-ground fuel storage tanks (ASTs). There are no hazardous wastes generated on-site. Historical industrial activity on the North Parcel has included fuel storage/distribution, manufacturing of wooden shingles, and shipbuilding and repair. An aerial photo from approximately 1943 shows the site to contain at least five shipbuilding <quot>ways<quot> and associated structures. Historical activity on the south Parcel has included operation of a cement distribution facility. Some activity related to Ship construction also appears to have occurred on-site.

NARR ID: 5752999
NARR Code: Hazardous Substance/Waste Types
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Potential hazardous substances include TPH, VOCs, SVOCs, PCBs, and butyltins. VOCs detected in soil and groundwater to date in North Parcel.

NARR ID: 5753001
NARR Code: Project Issues Summary
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 10/07/2011
Decode for NarcdID: Project Issues Summary
NARR Comments: Site is located along east bank of Willamette River within Portland Harbor Superfund site. Elevated PCBs and other contaminantss detected in sediment in site vicinity. Site currently operated as cement storage/distribution facility, but was occupied in past by large shipbuilding yard and fuel facility. DEQ has requested source control evaluation. Stormwater Source Control Screening Evaluation Work Plan submitted in February 2011. Revised plan submitted to DEQ in May 2011 and approved. Stormceptor sampling was completed at the site in summer 2011 per the approved work plan. Elevated metals, phthalates, TPH, and PAHs were detected in sediment. Total PCBs were detected to 75 ug/kg. Follow-up stormwater sampling will be completed starting in fall 2011.

NARR ID: 5753002
NARR Code: Land Use (Current/Reasonably Likely)
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Industrial

NARR ID: 5753003
NARR Code: Manner of Release
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011

GLACIER NORTHWEST INC (Continued) **S108662246**

Decode for NarcdID: Manner of Release
NARR Comments: Unknown. Modest impacts to soil and groundwater observed based on limited investigation.

NARR ID: 5753004
NARR Code: Site Ownership
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Site Ownership
NARR Comments: Current owner Glacier Northwest, Inc.

NARR ID: 5753006
NARR Code: Quarterly Planning Summary
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Quarterly Planning Summary
NARR Comments: DEQ will review Storm Water Source Control Screening Evaluation Work Plan and submit comments by April 2011.

NARR ID: 5753005
NARR Code: Health Threats
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Health Threats
NARR Comments: Primary threat would appear to be to human or ecological receptors within the Willamette River. Site is generally paved and has received extensive fill.

NARR ID: 5753000
NARR Code: Institutional Control
Created By: DHAFLEY
Created Date: 03/11/2011
Updated By: DHAFLEY
Updated Date: 03/11/2011
Decode for NarcdID: Institutional Control
NARR Comments: None in place or deemed necessary to date.

NARR ID: 5753621
NARR Code: 1922
Created By: DHAFLEY
Created Date: 10/07/2011
Updated By: DHAFLEY
Updated Date: 12/13/2019
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Sampling related to Portland Harbor (RM 11E) source control is ongoing. Sediment samples fro three site stormceptors were collected in July 2011 with elevated metals, PAHs, and phthalates detected. Follow-up stormwater sampling (four events, including two <quot>first flush<quot> events) will be performed starting fall 2011. Stormwater sampling completed, and Draft Stormwater Source Control Screening Evaluation submitted to DEQ. DEQ requested additional stormwater

GLACIER NORTHWEST INC (Continued) **S108662246**

sampling and sampling of the south end of the site riverbank. Riverbank sampling completed in fall 2012, and stormwater sampling ongoing. Source control decision expected in mid 2013. June 2013. Results of riverbank sampling and additional stormwater monitorin have been received. Under settlement with EPA 10, RM 11E PRPs have committed to additional site characterization, which is expected to include soil and groundwater sampling at Glacier site. DEQ will wait on receipt of results before completing a source control decision for site. Decision likely near the end of 2013. Revised SCE delayed by additional RM11E site investigation work. A revised Source Control Evaluation incorporating upland data from the RM11E RI/FS was submitted to DEQ at the end of october 2014. In 2015, a riverbank stabilization effort was completed in the southern site. Following additional stormwater sampling, a Source Control Measures Implementation report was submitted to DEQ in November 2016. (10/23/18). Following communication between CalPortland and DEQ regarding the need for phthalate source tracing, a source tracing investigation was completed by Glacier/CalPortland in 2018. Results are presented in a September 27, 2018 DRAFT Phthalate Source Survey letter report. Phthalate issues have not been resolved as of later 2018. (12/13/19). Awaiting results of additional source tracing work by Glacier, including a proposal for addressing uncontrolled source(s) of phthalates in stormwater.

Administrative Action:

Action ID:	9424
Region:	Not reported
Complete Date:	12/02/2010
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	12/02/2010
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Not reported
Category:	Administrative Action
Action Code Flag:	False
Action:	Site added to database
Further Action:	Not reported
Comments:	Not reported

Action ID:	9524
Region:	Northwestern Region
Complete Date:	Not reported
Rank Value:	Not reported
Cleanup Flag:	False
Created Date:	05/13/2014
Decode for AgencyID:	Department of Environmental Quality
Decode for RegionID:	Northwest Region
Category:	Remedial Action
Action Code Flag:	False
Action:	SCE
Further Action:	0
Comments:	Not reported

AST:

Name:	GLACIER NORTHWEST INC
Address:	1050 N RIVER ST
City,State,Zip:	PORTLAND, OR 97227

GLACIER NORTHWEST INC (Continued) **S108662246**

Facility Id:	14277
Hazardous Substance:	DIESEL 2
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
County:	MULTNOMAH
Owner-Operator Name:	Bob
Direct Site Phone:	5033352600
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	CEMENT DISTRIBUTION TERMINAL
NAICS:	423320
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	Yes
Is Aspiration hazard:	No
Is Carcinogenicity:	No
Is Germ cell mutagenicity:	No
Is Health HNOC:	No
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No
Is Serious eye damage or eye irritation:	Yes
Is Simple asphyxiant:	No
Is Skin corrosion or irritation:	Yes
Is Specific target organ toxicity:	No

VCS:

Name:	GLACIER NORTHWEST
Address:	1050 N RIVER ST.

GLACIER NORTHWEST INC (Continued) **S108662246**

City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5449
Facility Size:	Approx. 5.1 acres
Action:	Source Control Evaluation
Start Date:	12/24/2010
End Date:	Not reported
Program:	VCP
Latitude:	45.5381
Longitude:	-122.6784

AD95 **LONESTAR NORTHWEST-RIVER STREET** **OR LUST** **S102778597**
NNE **1050 NORTH RIVER STREET** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.352 mi.
1859 ft. **Site 2 of 2 in cluster AD**

Relative: **Lower**
Actual: **34 ft.**

LUST:

Name:	LONESTAR NORTHWEST-RIVER STREET
Address:	1050 NORTH RIVER STREET
City,State,Zip:	PORTLAND, OR 97227
Region:	North Western Region
Facility ID:	26-89-0285
Cleanup Received Date:	11/20/1989
Cleanup Start Date:	11/20/1989
Cleanup Complete Date:	**07/27/1999**
Decode for Region:	**North West Region**

AE96 **RADIO CAB CO** **OR LUST** **U000432408**
SW **1613 NW KEARNEY ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR AST**
0.362 mi.
1913 ft. **Site 1 of 2 in cluster AE**

Relative: **Higher**
Actual: **59 ft.**

LUST:

Name:	RADIO CAB CO
Address:	1613 NW KEARNEY
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-97-0661
Cleanup Received Date:	09/04/1997
Cleanup Start Date:	09/02/1997
Cleanup Complete Date:	**12/15/2003**
Decode for Region:	**North West Region**

UST:

Name:	RADIO CAB CO
Address:	1613 NW KEARNEY ST
City:	PORTLAND
Facility ID:	5173
Facility Telephone:	(503)516-2112
Permittee Name:	Stephen Entler, MANAGER
Number of Permitted Tanks:	2
Active Tanks:	2
Decommissioned Tanks:	3
Number of Tanks:	5

RADIO CAB CO (Continued) **U000432408**

AST:

Name:	ENTLERS AUTO REPAIR INC
Address:	1613 NW KEARNEY RD N
City,State,Zip:	PORTLAND, OR 97209
Facility Id:	10790
Hazardous Substance:	MOTOR OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
County:	MULTNOMAH
Owner-Operator Name:	Stephen
Direct Site Phone:	5032283530
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	AUTOMOTIVE REPAIR
NAICS:	811111
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	No
Is Gas under Pressure:	No
Is Physical HNOC:	Yes
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	No
Is Aspiration hazard:	No
Is Carcinogenicity:	No
Is Germ cell mutagenicity:	No
Is Health HNOC:	Yes
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No
Is Serious eye damage or eye irritation:	No
Is Simple asphyxiant:	No
Is Skin corrosion or irritation:	No
Is Specific target organ toxicity:	No

AC97
WNW
1/4-1/2
0.365 mi.
1928 ft.

1825 NW 19TH AVENUE
1825 NW 19TH AVE
PORTLAND, OR 97209

Site 2 of 2 in cluster AC

OR LUST **S116561666**
N/A

Relative:
Higher

Actual:
45 ft.

LUST:

Name:	1825 NW 19TH AVENUE
Address:	1825 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-14-0255
Cleanup Received Date:	03/11/2014
Cleanup Start Date:	02/17/2014
Cleanup Complete Date:	**08/20/2014**
Decode for Region:	**North West Region**

AF98
WSW
1/4-1/2
0.367 mi.
1940 ft.

HEATING OIL TANK
1313 NW 19TH
PORTLAND, OR 97023

Site 1 of 4 in cluster AF

OR LUST **S100500604**
N/A

Relative:
Higher

Actual:
61 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1313 NW 19TH
City,State,Zip:	PORTLAND, OR 97023
Region:	North Western Region
Facility ID:	26-91-0243
Cleanup Received Date:	07/01/1991
Cleanup Start Date:	06/28/1991
Cleanup Complete Date:	**05/28/2014**
Decode for Region:	**North West Region**

AF99
WSW
1/4-1/2
0.370 mi.
1952 ft.

NORTH COAST CANVAS PROD CO
1235 NW 19TH AVE
PORTLAND, OR 97209

Site 2 of 4 in cluster AF

OR LUST **U000432399**
OR UST **N/A**

Relative:
Higher

Actual:
62 ft.

LUST:

Name:	NORTH COAST CANVAS PRODUCTS CO
Address:	1235 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-01-0040
Cleanup Received Date:	06/28/2001
Cleanup Start Date:	06/28/2001
Cleanup Complete Date:	**12/02/2011**
Decode for Region:	**North West Region**

Name:	NORTH COAST CANVAS PRODUCTS CO.
Address:	1235 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-91-0217
Cleanup Received Date:	06/06/1991
Cleanup Start Date:	06/05/1991

NORTH COAST CANVAS PROD CO (Continued) **U000432399**

Cleanup Complete Date: **10/18/2000**
Decode for Region: **North West Region**

UST:
Name: NORTH COAST CANVAS PROD CO
Address: 1235 NW 19TH AVE
City: PORTLAND
Facility ID: 3745
Facility Telephone: (503) 227-2482
Permittee Name: RICHARD BROWN, JOHN SCHAFFER/OWNERS
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 3
Number of Tanks: 3

---

100 **HYDRAULIC & AIR EQUIPMENT COMPANY** **OR LUST** **1000353957**
West **1925 NW QUIMBY ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.372 mi.
1962 ft.

Relative:
Higher

Actual:
57 ft.

LUST:
Name: HYDRAULIC & AIR EQUIPMENT COMPANY
Address: 1925 NW QUIMBY ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-91-0065
Cleanup Received Date: 02/04/1991
Cleanup Start Date: 01/25/1991
Cleanup Complete Date: **01/14/2002**
Decode for Region: **North West Region**

UST:
Name: HYDRAULIC & AIR EQUIPMENT COMPANY
Address: 1925 NW QUIMBY ST
City: PORTLAND
Facility ID: 4496
Facility Telephone: (503)222-3295
Permittee Name: DARYL J HOPPE, VP
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

AE101 **HEATING OIL TANK** **OR LUST** **S101745970**
SSW **833 NW 16TH AVENUE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.373 mi.
1967 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
59 ft.

LUST:
Name: HEATING OIL TANK
Address: 833 NW 16TH AVENUE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region

HEATING OIL TANK (Continued) **S101745970**

Facility ID: 26-95-0279
Cleanup Received Date: 10/23/1995
Cleanup Start Date: 10/18/1995
Cleanup Complete Date: 10/09/1996
Decode for Region: North West Region

AG102 **A-BOY ELECTRIC** **OR LUST** **U003859344**
WNW **1919 NW 19TH AVE** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.373 mi.
1969 ft. **Site 1 of 2 in cluster AG**

Relative:
Higher

Actual:
42 ft.

LUST:
Name: A-BOY ELECTRIC
Address: 1919 NW 19TH AVENUE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-96-0640
Cleanup Received Date: 11/08/1996
Cleanup Start Date: 11/08/1996
Cleanup Complete Date: 05/03/2002
Decode for Region: North West Region

UST:
Name: A-BOY ELECTRIC
Address: 1919 NW 19TH AVE
City: PORTLAND
Facility ID: 12135
Facility Telephone: (503) 225-9009
Permittee Name: DAN DOLAN
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 5
Number of Tanks: 5

AH103 **HEATING OIL TANK** **OR LUST** **S105154086**
West **1935 NW RALEIGH ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.378 mi.
1998 ft. **Site 1 of 4 in cluster AH**

Relative:
Higher

Actual:
55 ft.

LUST:
Name: HEATING OIL TANK
Address: 1935 NW RALEIGH ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-01-8035
Cleanup Received Date: 09/20/2001
Cleanup Start Date: 09/20/2001
Cleanup Complete Date: 12/18/2001
Decode for Region: North West Region

AI104 **TUCKER BUILDING** **OR CRL** **1006858623**
NE **2110 N LEWIS AVE** **OR ECSI** **N/A**
1/4-1/2 **PORTLAND, OR 97227** **OR ENG CONTROLS**
0.380 mi. **OR INST CONTROL**
2006 ft. **Site 1 of 2 in cluster AI** **OR VCP**

Relative:
Higher

Actual:
37 ft.

CRL:
Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
Facility ID: 3036
Location ID: 6218
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.538 / -122.6768

ECSI:
Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
State ID Number: 3036
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Listed on the CRL/Inventory
FACA ID: 6218
Further Action: 0
Lat/Long (dms): 45 32 16.80 / -122 40 36.50
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 27
Qtr Section: CA
Tax Lots: 6400
Size: 0.92 acre
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 06/28/2006
Created Date: 04/04/2001
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Not reported
Alias Name: 2110 N Lewis LLC

Narrative:
NARR ID: 5745295
NARR Code: Site Contacts
Created By: AVOSS
Created Date: 08/05/2004
Updated By: AVOSS
Updated Date: 08/05/2004

TUCKER BUILDING (Continued) **1006858623**

Decode for NarcdID: Site Contacts
NARR Comments: City of Portland, Deputy Attorney, Jan Betz City of Portland Office of Transportation, Brant Williams

NARR ID: 5745297
NARR Code: Contamination
Created By: AVOSS
Created Date: 08/05/2004
Updated By: GWISTAR
Updated Date: 06/28/2006
Decode for NarcdID: Contamination
NARR Comments: (9/21/04 ACV/VCP) During on-ramp construction and the building demolition, soil and building materials (concrete) were determined to contain petroleum and polychlorinated biphenyls (PCBs).

NARR ID: 5745296
NARR Code: Hazardous Substance/Waste Types
Created By: AVOSS
Created Date: 08/05/2004
Updated By: JWAGGY
Updated Date: 08/10/2005
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: PCB-contaminated building debris and petroleum-contaminated soil.

NARR ID: 5746977
NARR Code: Manner of Release
Created By: JWAGGY
Created Date: 08/10/2005
Updated By: JWAGGY
Updated Date: 08/10/2005
Decode for NarcdID: Manner of Release
NARR Comments: During on-ramp construction and building demolition, soil and building materials (concrete) were determined to contain petroleum and polychlorinated biphenyl (PCB) contamination. Historic uses of the property include an electrical equipment service center (PacifiCorp) and a small retail/business office. PacifiCorp used the facility to service and maintain electrical transformers and other electrical equipment.

NARR ID: 5746974
NARR Code: Media Contamination
Created By: JWAGGY
Created Date: 08/10/2005
Updated By: JWAGGY
Updated Date: 08/10/2005
Decode for NarcdID: Media Contamination
NARR Comments: soil

NARR ID: 5746976
NARR Code: Pathways Other Hazards
Created By: JWAGGY
Created Date: 08/10/2005
Updated By: GWISTAR
Updated Date: 03/29/2007
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: In 2002, Portland Department of Transportation (PDOT) completed construction of the on-ramp and the results of the follow-up site

TUCKER BUILDING (Continued) **1006858623**

investigation conducted in 2003 indicated that soils were impacted sporadically with petroleum hydrocarbons (including low concentrations of petroleum constituents; polynuclear aromatic hydrocarbons or PAHs) and PCBs. Site groundwater was not significantly impacted from on-site sources. After completion of the vehicle on-ramp, the site was completely covered by either elements of the ramp or by newly placed asphalt pavement and curbing. On July 22, 2004, the City of Portland recorded an easement and equitable servitude (EES) with the property deed, which documented the site conditions and required maintenance of the on-ramp as an effective barrier to site contamination.

NARR ID: 5741282
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/28/2006
Decode for NarcdID: Remedial Action
NARR Comments: (8/5/04 ACV/VCP) Approximately 650 tons of petroleum-impacted soil were removed from the on-ramp footing excavations and disposed of at Hillsboro Landfill. PCB-contaminated concrete, where PCB concentrations exceeded a federal PCB cleanup level of 25 parts per million (ppm), from building floors was removed and disposed of off-site. The remaining building materials and concrete (with PCB concentrations below 25 ppm) were crushed and placed in the building basement before being covered by fill soil. The new on-ramp covered the site and if left in-place adequately mitigates future potential direct contact risks. The site remedy was submitted for public comment in April 2004 with no comments received. A deed restriction (Easement and Equitable Servitude) was placed on the property in July 2004. A conditional no further action decision was provided to the City of Portland in August 2004. (10/28/05 JMW/SAP) Comment period for Confirmed Release List (CRL) and Inventory listing closed on October 17, 2005. No comments were received, and the site has been listed.

NARR ID: 5746975
NARR Code: Health Threats
Created By: JWAGGY
Created Date: 08/10/2005
Updated By: GWISTAR
Updated Date: 05/14/2013
Decode for NarcdID: Health Threats
NARR Comments: The current on-ramp structure and new paved parking areas have effectively eliminated site risks, and will continue to prevent human exposure as long as the on-ramp and paving remain in-place and are maintained. There were no unacceptable ecological risks found at the site.

NARR ID: 5746568
NARR Code: Site History
Created By: GWISTAR
Created Date: 04/29/2005
Updated By: JWAGGY
Updated Date: 08/10/2005
Decode for NarcdID: Site History

TUCKER BUILDING (Continued) **1006858623**

NARR Comments: Prior to the on-ramp redevelopment in 2001/2002, the Tucker Property covered an entire city block and included a two-story building (with basement) on half of the property and asphalt-paved parking on the other half. Significant historic uses of the property had been an electrical equipment service center (PacifiCorp); and small retail and business offices since about the 1920/s. PacifiCorp used the facility to service and maintain electrical transformers and other electrical equipment.

NARR ID: 5754407
NARR Code: 1922
Created By: DHAFLEY
Created Date: 12/26/2012
Updated By: DHAFLEY
Updated Date: 01/10/2020
Decode for NarcdID: Current Site Summary Statement
NARR Comments: December 2012. As noted elsewhere in this ECSI report, a conditional NFA was issued for the site in 2004, which is contingent on the site cap remaining in place. The restriction is necessary because the site soil contains elevated contaminants including PCBs. As property formerly owner/operated by PacifiCorp, the Tucker property was included in a source control-related preliminary assessment completed in 2009 (<quot>Preliminary Assessment Report for the Albina Area Properties<quot>; Bridgewater Group, Inc., March 2009). the PA was subsequently revised. A source control investigation and activities report was completed for the site by the City of Portland 2010 (<quot>Former Tucker Building Storm System Investigation and Source Control Activities Report<quot>; City of Portland BES, April 2010). DEQ is currently evaluating a number of Albina area properties, including the former Tucker site, from a source control perspective. A source control decision is expected in 1st Quarter 2013. Cap inspection completed 1/4/13 by City of Portland at DEQ request. Cap inspection completed by City of Portland January 2020 (see Webdocs). No problems noted.

Site Control:
Site Control #: 1268
Control Number: 37
Begin Date: 01/10/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: hafley
Last Reviewed Date: 01/10/2020
Last Update By: DHAFLEY
Last Updated Date: 01/10/2020
Site Comment: Asphalt cap inspected by City of Portland January 2020 and found to be intact and functioning.

Site Control #: 372
Control Number: 3
Begin Date: 08/05/2004
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Alicia Voss
Last Reviewed Date: Not reported
Last Update By: GWISTAR
Last Updated Date: 04/29/2005
Site Comment: A deed restriction (Easement and Equitable Servitude) was placed on

TUCKER BUILDING (Continued) **1006858623**

the property in July 2004.

Site Control #: 373
Control Number: 37
Begin Date: 01/05/2004
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Reviewed Date: 01/04/2013
Last Update By: DHAFLEY
Last Updated Date: 06/27/2013
Site Comment: A vehicular on-ramp that covers the site needs to be left in place to prevent future potential direct contact risks. Cap inspection completed 1/4/13 by City of Portland at the request of DEQ. Cap condition acceptable.

Administrative Action:
Action ID: 9424
Region: Northwestern Region
Complete Date: 04/04/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 04/03/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9520
Region: Northwestern Region
Complete Date: 04/05/2004
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: EXPANDED PRELIMINARY ASSESSMENT
Further Action: 0
Comments: Not reported

TUCKER BUILDING (Continued) **1006858623**

Action ID: 9440
Region: Northwestern Region
Complete Date: 03/01/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: 08/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 08/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 04/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: Low
Comments: Not reported

Action ID: 9498

TUCKER BUILDING (Continued) **1006858623**

Region: Northwestern Region
Complete Date: 08/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 08/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 08/08/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/05/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 07/22/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/10/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Northwestern Region

TUCKER BUILDING (Continued) **1006858623**

Complete Date: 08/23/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/23/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 08/23/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/23/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: 0
Comments: Not reported

Action ID: 9437
Region: Northwestern Region
Complete Date: 10/24/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/24/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: 0
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 10/28/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/28/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9439
Region: Northwestern Region
Complete Date: 10/28/2005

TUCKER BUILDING (Continued) **1006858623**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/28/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 134228
Operation Status: Active
Common Name: 2110 N Lewis LLC
Yrs of Operation: August 6, 1996 - Present
Comments: Not reported
Updated Date: 04/04/2001
Updated By: jmw
Decode for OpstatID: Active

Enginering Control:
Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
Site Control Sequence #: 1268
Site Id: 3036
Control Sequence #: 37
Begin Date: 01/10/2020
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: hafley
Last Review Date: 01/10/2020
Last Updated By: DHAFLEY
Last Updated Date: 01/10/2020
Group Sequence #: 9
Control Code: CPNE
Control Description: Cap, non-engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Asphalt cap inspected by City of Portland January 2020 and found to be intact and functioning.

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
Site Control Sequence #: 373
Site Id: 3036
Control Sequence #: 37
Begin Date: 01/05/2004
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Dan Hafley
Last Review Date: 01/04/2013

TUCKER BUILDING (Continued) **1006858623**

Last Updated By: DHAFLEY
Last Updated Date: 06/27/2013
Group Sequence #: 9
Control Code: CPNE
Control Description: Cap, non-engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: A vehicular on-ramp that covers the site needs to be left in place to prevent future potential direct contact risks. Cap inspection completed 1/4/13 by City of Portland at the request of DEQ. Cap condition acceptable.

Institutional Control:
Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
Site Control Sequence #: 372
Site Id: 3036
Control Sequence #: 3
Begin Date: 08/05/2004
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Alicia Voss
Last Review Date: Not reported
Last Updated By: GWISTAR
Last Updated Date: 04/29/2005
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: A deed restriction (Easement and Equitable Servitude) was placed on the property in July 2004.

VCS:
Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3036
Facility Size: 0.92 acre
Action: Site Screening recommended (EV)
Start Date: 04/03/2001
End Date: 04/03/2001
Program: VCS
Latitude: 45.538
Longitude: -122.6768

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227

TUCKER BUILDING (Continued) **1006858623**

ECS Site ID: 3036
Facility Size: 0.92 acre
Action: REMEDIAL INVESTIGATION
Start Date: 01/05/2002
End Date: 04/05/2004
Program: VCP
Latitude: 45.538
Longitude: -122.6768

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3036
Facility Size: 0.92 acre
Action: FEASIBILITY STUDY
Start Date: 04/05/2004
End Date: 08/05/2004
Program: VCP
Latitude: 45.538
Longitude: -122.6768

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3036
Facility Size: 0.92 acre
Action: Engineering Control
Start Date: 08/05/2004
End Date: 08/05/2004
Program: VCP
Latitude: 45.538
Longitude: -122.6768

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3036
Facility Size: 0.92 acre
Action: Letter Agreement
Start Date: 03/01/2002
End Date: 03/01/2002
Program: VCP
Latitude: 45.538
Longitude: -122.6768

Name: TUCKER BUILDING
Address: 2110 N LEWIS AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3036
Facility Size: 0.92 acre
Action: Institutional Control
Start Date: 07/22/2004
End Date: 07/22/2004
Program: VCP
Latitude: 45.538
Longitude: -122.6768

TUCKER BUILDING (Continued) **1006858623**

Name:	TUCKER BUILDING
Address:	2110 N LEWIS AVE.
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	3036
Facility Size:	0.92 acre
Action:	No Further Action (Conditional)
Start Date:	08/08/2004
End Date:	08/08/2004
Program:	VCP
Latitude:	45.538
Longitude:	-122.6768

Name:	TUCKER BUILDING
Address:	2110 N LEWIS AVE.
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	3036
Facility Size:	0.92 acre
Action:	EXPANDED PRELIMINARY ASSESSMENT
Start Date:	09/01/2002
End Date:	04/05/2004
Program:	VCP
Latitude:	45.538
Longitude:	-122.6768

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105 **HEATING OIL TANK** **OR LUST** **S102520936**
WSW **1112 NW 19TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.380 mi.
2009 ft.

Relative: LUST:
Higher

Name:	HEATING OIL TANK
Address:	1112 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-97-0147
Cleanup Received Date:	02/20/1997
Cleanup Start Date:	02/20/1997
Cleanup Complete Date:	**07/16/1997**
Decode for Region:	**North West Region**

Actual:
64 ft.

AJ106 **HEATING OIL TANK** **OR LUST** **S112225355**
WSW **1901 NW NORTHRUP ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.381 mi.
2013 ft. **Site 1 of 2 in cluster AJ**

Relative: LUST:
Higher

Name:	HEATING OIL TANK
Address:	1901 NW NORTHRUP ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-12-0799
Cleanup Received Date:	07/17/2012
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**02/11/2013**

Actual:
63 ft.

HEATING OIL TANK (Continued) **S112225355**

Decode for Region: **North West Region**

AK107 **RIVER STREET WAREHOUSE FIRE** **SEMS** **1023674651**
North **1300 NORTH RIVER STREET** **ORN001002120**
1/4-1/2 **PORTLAND, OR 97227**
0.382 mi.
2017 ft. **Site 1 of 2 in cluster AK**

Relative: **Lower**
Actual: **31 ft.**

SEMS:

Site ID:	1002120
EPA ID:	ORN001002120
Name:	RIVER STREET WAREHOUSE FIRE
Address:	1300 NORTH RIVER STREET
Address 2:	Not reported
City,State,Zip:	PORTLAND, OR 97227
Cong District:	03
FIPS Code:	41051
Latitude:	Not reported
Longitude:	Not reported
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

Region:	10
Site ID:	1002120
EPA ID:	ORN001002120
Site Name:	RIVER STREET WAREHOUSE FIRE
NPL:	N
FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	2017-05-16 05:00:00
Finish Date:	3/6/2018 5:00:00 AM
Qual:	C
Current Action Lead:	EPA Perf

AK108 **RIVER STREET WAREHOUSE FIRE SITE** **OR ECSI** **S114555078**
North **1300 N RIVER ST.** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.382 mi.
2017 ft. **Site 2 of 2 in cluster AK**

Relative: **Lower**
Actual: **31 ft.**

ECSI:

Name:	RIVER STREET WAREHOUSE FIRE SITE
Address:	1300 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	6225
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	148125

RIVER STREET WAREHOUSE FIRE SITE (Continued) **S114555078**

Further Action:	0
Lat/Long (dms):	45 32 24.00 / -122 40 55.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	True
Updated By:	GWISTAR
Update Date:	12/12/2017
Created Date:	12/01/2017
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5756949
NARR Code:	General Site Description
Created By:	GGAMOLO
Created Date:	12/01/2017
Updated By:	GGAMOLO
Updated Date:	12/01/2017
Decode for NarcdID:	General Site Description

NARR Comments: A fire broke out at an abandoned 1.8-acre warehouse at 1300 N River St. in Portland (the Site) on the evening of May 14, 2017. The warehouse, in a densely populated, mixed residential and commercial area, was constructed with asbestos containing materials (ACM). Airborne releases of ACM occurred during the fire and residual ACM remains at the Site in the fire s aftermath. The U.S. Environmental Protection Agency (EPA) and DEQ formed a unified command and conducted an emergency action in May/June 2017 to find, collect, and properly dispose of all wind-dispersed ACM in a three square mile area of downtown Portland. EPA is now conducting a time-critical removal of remaining ACM in the former building s debris pile. The warehouse, with a history of safety, structural, and other violations, was constructed about 30 feet above water level on the bank of the Willamette River. The structure extended over the river, supported by wooden pilings. From information provided to EPA, the warehouse was 30 to 40 feet tall, with a calculated interior volume of about 115,000 cu. yds. Based on the former building s size, age, and type of roofing material, industry experts estimated the debris pile size at about 20,000 cu. yds., all of which is considered extremely friable ACM.

NARR ID:	5756951
NARR Code:	Site Ownership
Created By:	GGAMOLO
Created Date:	12/01/2017
Updated By:	GGAMOLO

RIVER STREET WAREHOUSE FIRE SITE (Continued) **S114555078**

Updated Date: 12/01/2017
Decode for NarcdID: Site Ownership
NARR Comments: Mr. Stan Herman, with a mailing address of 5609 NE 60th Ave., Vancouver, WA 98661, owns the former warehouse and land above the ordinary low water line for the Willamette River. In the aftermath of the fire, EPA determined that while he has been cooperative, Mr. Herman was unable to undertake the needed time critical work. EPA then proceeded with its time critical removal at the Site, intending to recover its expenses from the owner at a later date.

NARR ID: 5756950
NARR Code: 1922
Created By: GGAMOLO
Created Date: 12/01/2017
Updated By: DHAFLEY
Updated Date: 10/23/2018
Decode for NarcdID: Current Site Summary Statement
NARR Comments: After the fire, EPA bulk samples from the debris pile, analyzed by Polarized Light Microscopy, showed 16 layers of material, four containing chrysotile asbestos. These samples contained less asbestos (40%) than off-Site debris samples collected immediately after the fire (60% to 90%); this may be due to thermal degradation of chrysotile in the hottest part of the fire. If this is the case, higher percentages of asbestos may be present further into the debris pile where the fire burned cooler and for a shorter period. Furthermore, EPA collected samples from easily accessible on-site locations that may represent only about 20% of the total material/area. All Site debris is considered ACM, due to extreme friability in the burned roofing material and the fact that Site wastes are comingled. EPA initially used a temporary adhesive compound (tackifier) to mitigate additional releases of asbestos fibers, but a more permanent remedy was needed. As a result, in late September 2017, after obtaining Site access from the property owner, EPA began removing ACM from the decking of the former warehouse structure. However, inspections revealed major concerns about the stability of existing pilings and decking, which are degrading and threaten continued release of asbestos fibers. Although EPA had previously installed temporary metal pilings to support the working platform needed to safely remove remaining debris, EPA initiated construction of two trestles to enhance safety in completing the job. During trestle construction, EPA discovered that the decking contained another layer of asbestos. EPA advised DEQ that they could not remove it, because the cost to do so would exceed EPA s authorized removal funding (due largely to the additional cost of debris disposal), and go beyond what was permitted under the owner s Site access agreement. Through October 2017, EPA had removed about 30% of decking debris. In early November 2017, DEQ and EPA met to discuss options to complete ACM removal from the Site. EPA indicated that it could perform removal of the decking but lacked the funds to dispose of the removed ACM. EPA estimated disposal costs at approximately $400K - $500K.) DEQ suggested the possibility of using funds from the Orphan Site Account for ACM disposal costs. If DEQ Orphan funding is approved, completion of construction of the second trestle and subsequent debris removal could be expected by early January 2018. Once ACM debris is removed and disposed of, EPA intends to remove the trestles and temporary metal pilings, as well as demobilize all personnel and equipment. Prior to demobilization, the

RIVER STREET WAREHOUSE FIRE SITE (Continued) **S114555078**

upland and riverbank were capped with 2 or more feet of clean rock for stability purposes. Following emergency response actions, sampling of the site bankline and beach (exposed land below the toe of the bankline during low water) were sampled by an EPA contractor. Numerous contaminants were detected at modest levels (see Webdocs for results). EPA and DEQ have determined that the site upland and riverbank do not represent a signficant recontamination concern given the presence of cover materials.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 12/01/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/01/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9453
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/12/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: ORPHAN SITE
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 03/01/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/02/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

109
East
1/4-1/2
0.383 mi.
2020 ft.

CARGILL INCORPORATED
800 N RIVER ST.
PORTLAND, OR 97227

OR ECSI **S104044430**
OR AST **N/A**
OR VCP

Relative:
Lower

Actual:
15 ft.

ECSI:

Name:	CARGILL INCORPORATED
Address:	800 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	5561
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	121457
Further Action:	0
Lat/Long (dms):	45 32 10.30 / -122 40 30.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	07/14/2014
Created Date:	04/05/2011
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	Portland Harbor Sediment Study

Narrative:

NARR ID:	5753612
NARR Code:	Site Contacts
Created By:	DHAFLEY
Created Date:	10/06/2011
Updated By:	DHAFLEY
Updated Date:	10/06/2011
Decode for NarcdID:	Site Contacts
NARR Comments:	Bill Ford, (Counsel) Lathrop & Gage LLP 2345 Grand Blvd., Suite 2200 Kansas City, MO 64108-2618 Gene Loffler Operation Manager CLD Pacific Grain LLC 222 SW Columbia St., Suite 1133 Portland, OR 97201-6610 503-243-1133 gene_loffler@cldpacific.com

NARR ID:	5753613
NARR Code:	Contamination
Created By:	DHAFLEY
Created Date:	10/06/2011
Updated By:	DHAFLEY

CARGILL INCORPORATED (Continued) **S104044430**

Updated Date: 10/06/2011
Decode for NarcdID: Contamination
NARR Comments: No obvious sources related to current grain operations. Main historical source is ship-building operations in the northern portion of the site during occupancy by the Albina Engine Works. Elevated levels of PCBs have been detected in (Portland Harbor Superfund site) sediment adjacent to the site.

NARR ID: 5753614
NARR Code: Data Sources
Created By: DHAFLEY
Created Date: 10/06/2011
Updated By: DHAFLEY
Updated Date: 08/23/2021
Decode for NarcdID: Data Sources
NARR Comments: 1) RiverMile 11E sediment characterization report; GSI Groundwater Solutions. 1a) Letter Agreement for a Source Control Evaluation of the Stormwater and Bank Erosion Pathways at the Irving Elevator Property [Cargill/CLD Pacific Grain]; January 18, 2011. 2) Stormwater Assessment Workplan; Black & Veatch, July 2011. 3) DEQ notes from riverbank inspection; September 23, 2011. 4) Catchbasin Sediment Sampling Report. Black & Veatch, November 2011. 5) Stormwater sampling results (data package) for work completed under 1200Z permit. November 2012. 6) Supplemental Remedial Investigation/Feasibility Study Field Sampling and Data Report, River Mile 11E, Portland, Oregon. GSI Water Solutions, Inc., July 2014. 7) Stormwater Source Control Evaluation, Cargill Inving Grain Elevator and Terminal Property, Portland, Oregon. Foth, July 2014. 8) Revised Source Control Evaluation Report. foth; July 2016. 9) December 2017 Stormwater Source Control Sampling Report. MFA; February 21, 2018. 10) Revised Stormwater Source Control Report. Foth; November 11, 2019. Includes separate response to DEQ, EPA, and Tribal comments. 11) Final Source Control Decision for Cargill, Incorporated. August 13, 2021 (memo). 12) Final Source Control Decision for Cargill, Incorporated. August 23, 2021 (letter).

NARR ID: 5753615
NARR Code: General Site Description
Created By: DHAFLEY
Created Date: 10/06/2011
Updated By: DHAFLEY
Updated Date: 10/06/2011
Decode for NarcdID: General Site Description
NARR Comments: Site is an operating grain distribution facility - CLD Pacific Grain. A Portland Harbor sediment AOPC (area of potential concern) is located adjacent to the site.

NARR ID: 5753616
NARR Code: Project Issues Summary
Created By: DHAFLEY
Created Date: 10/06/2011
Updated By: DHAFLEY
Updated Date: 12/12/2012
Decode for NarcdID: Project Issues Summary
NARR Comments: At the request of DEQ, site owner/operator entered into an agreement to complete a Portland Harbor source control evaluation at the site. A Stormwater Assessment Workplan dated July 2011 was approved by DEQ,

CARGILL INCORPORATED (Continued) **S104044430**

and sampling of site catchbasins has been completed. A report is pending. DEQ also completed a bankline inspection in September 2011, which indicated that most of the site riverbank is well-armored. There is some exposed soil both above and below mean high water, in particular in the northern site. PCB sampling results from the riverbank (collected below ordinany high water) are generall below 100 ug/kg. Catchbasin sampling completed in 2011 identified elevated metals in catchbasin sediment. PCBs and pesticides were not detected. Based on this work, DEQ requested that stormwater sampling be completed under ongoing 1200Z monitoring. Monitoring results for outfalls 2 through 7 was performed in November 2012. PCBs, pesticides, and mercury were not detected; metals and PAHs in two samples were modestly elevated. DEQ will review the results of the next round of stormwater sampling and determine whether data is sufficient to complete a source control evaluation.

NARR ID: 5754382
NARR Code: 1922
Created By: DHAFLEY
Created Date: 12/12/2012
Updated By: DHAFLEY
Updated Date: 08/23/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Source control evaluation in progress. Riverbank is generally armored and a low risk for erosion. Catchbasin sampling in 2011 identified elevated metals; no PCBs were detected. Followup stormwater sampling in progress. In November 2012 1200Z sampling, PCBs, pesticides, and mercury were not detected. Modestly elevated metals and PAHs (in two samples) were detected, but below Portland Harbor screening values. Storwmater monitoring continues, and a source control evalution is expected in mid-2013. Completion of source control work at the site was delayed pending the collection of additional data by the RM11E Group, including bankline and upland groundwater sampling. A Supplemental RI/FS Field Sampling and Data Report for the RM11E area, including Cargill, was completed in July 2014 and is currently under review. Based on data in the report, Cargill (Temco) submitted a source control evaluation report (dated July 2014) that is currently under review. August 2021. Source control decision issued by DEQ on August 13, 2021 and distributed to EPA and tribal representatives. Decision and accompanying DEQ letter issued August 23, 2021. A NFA determination has not been made by DEQ, but the upland site is considered a low priority for further action (occupational exposure or eco risk).

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 04/05/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/05/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

CARGILL INCORPORATED (Continued) **S104044430**

Action ID: 9511
Region: Northwestern Region
Complete Date: 12/02/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/05/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9523
Region: Northwestern Region
Complete Date: 08/23/2021
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/23/2021
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCD
Further Action: Low
Comments: Not reported

Action ID: 9524
Region: Northwestern Region
Complete Date: 08/23/2021
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/13/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCE
Further Action: 0
Comments: Not reported

AST:
Name: TEMCO LLC
Address: 800 N RIVER ST
City,State,Zip: PORTLAND, OR 97227
Facility Id: 24309
Hazardous Substance: DIESEL FUEL
Reporting Quantities: Not reported
Quantity Units: Not reported
Physical State: Not reported
Storage 1: Above ground tank
County: MULTNOMAH
Owner-Operator Name: Richard
Direct Site Phone: 5032819177
Report Class: Annual
Report Year: 2020

CARGILL INCORPORATED (Continued) **S104044430**

Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	EXPORT GRAIN ELEVATOR
NAICS:	424510
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	No
Is Aspiration hazard:	No
Is Carcinogenicity:	No
Is Germ cell mutagenicity:	No
Is Health HNOC:	No
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No
Is Serious eye damage or eye irritation:	No
Is Simple asphyxiant:	No
Is Skin corrosion or irritation:	No
Is Specific target organ toxicity:	No

Name:	TEMCO LLC
Address:	800 N RIVER ST
City,State,Zip:	PORTLAND, OR 97227
Facility Id:	24309
Hazardous Substance:	WHITE MINERAL OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
County:	MULTNOMAH
Owner-Operator Name:	Richard
Direct Site Phone:	5032819177
Report Class:	Annual
Report Year:	2020

CARGILL INCORPORATED (Continued) **S104044430**

Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	EXPORT GRAIN ELEVATOR
NAICS:	424510
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Unit:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gas State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric gas:	No
Is Self-heating:	No
Is Self-reactive:	No
Is Acute toxicity:	No
Is Aspiration hazard:	No
Is Carcinogenicity:	No
Is Germ cell mutagenicity:	No
Is Health HNOC:	No
Is Reproductive toxicity:	No
Is Respiratory or skin sensitization:	No
Is Serious eye damage or eye irritation:	No
Is Simple asphyxiant:	No
Is Skin corrosion or irritation:	No
Is Specific target organ toxicity:	No

VCS:

Name:	CARGILL INCORPORATED
Address:	800 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5561
Facility Size:	Not reported
Action:	Source Control Decision
Start Date:	08/23/2021
End Date:	08/23/2021
Program:	VCP
Latitude:	45.5362
Longitude:	-122.6751

Name: CARGILL INCORPORATED

CARGILL INCORPORATED (Continued) **S104044430**

Address:	800 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5561
Facility Size:	Not reported
Action:	SITE INVESTIGATION
Start Date:	04/05/2011
End Date:	12/02/2013
Program:	ICP
Latitude:	45.5362
Longitude:	-122.6751

Name:	CARGILL INCORPORATED
Address:	800 N RIVER ST.
City,State,Zip:	PORTLAND, OR 97227
ECS Site ID:	5561
Facility Size:	Not reported
Action:	Source Control Evaluation
Start Date:	01/27/2012
End Date:	08/23/2021
Program:	VCP
Latitude:	45.5362
Longitude:	-122.6751

AG110 **HEATING OIL TANK** **OR LUST** **S102778357**
WNW **2001 NW 19TH** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.384 mi.
2025 ft. **Site 2 of 2 in cluster AG**

Relative: **Higher**
Actual: **42 ft.**

LUST:

Name:	HEATING OIL TANK
Address:	2001 NW 19TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-97-0676
Cleanup Received Date:	09/11/1997
Cleanup Start Date:	09/11/1997
Cleanup Complete Date:	**02/16/2006**
Decode for Region:	**North West Region**

Name:	JOHNSON ACOUSTICAL & SUPPLY CO.
Address:	2001 NW 19TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-87-0012
Cleanup Received Date:	07/20/1987
Cleanup Start Date:	07/20/1987
Cleanup Complete Date:	**08/17/1987**
Decode for Region:	**North West Region**

AJ111 **HEATING OIL TANK** **OR LUST** **S108834541**
WSW **1905 NW NORTHRUP ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.386 mi.
2037 ft. **Site 2 of 2 in cluster AJ**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
64 ft. Address: 1905 NW NORTHRUP ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-07-1213
Cleanup Received Date: 08/15/2007
Cleanup Start Date: Not reported
Cleanup Complete Date: 10/08/2007
Decode for Region: North West Region

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112 **HEATING OIL TANK** **OR LUST** **S102959456**
NW **2200 NW FRONT** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.387 mi.
2044 ft.

Relative: LUST:
Lower
Actual: Name: HEATING OIL TANK
35 ft. Address: 2200 NW FRONT
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-97-0931
Cleanup Received Date: 12/08/1997
Cleanup Start Date: 12/08/1997
Cleanup Complete Date: 03/19/1998
Decode for Region: North West Region

AH113 **CONSOLIDATED FREIGHTWAYS** **OR LUST** **U000432349**
West **1947 NW SAVIER ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.393 mi.
2073 ft. **Site 2 of 4 in cluster AH**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
55 ft. Address: 1947 NW SAVIER ST
City,State,Zip: PORTLAND, OR 97208
Region: North Western Region
Facility ID: 26-00-5364
Cleanup Received Date: 07/18/2000
Cleanup Start Date: 07/12/2000
Cleanup Complete Date: 11/13/2003
Decode for Region: North West Region

Name: CONSOLIDATED FREIGHTWAYS
Address: 1947 NW SAVIER ST
City,State,Zip: PORTLAND, OR 97208
Region: North Western Region
Facility ID: 26-92-0329
Cleanup Received Date: 11/24/1992
Cleanup Start Date: 11/24/1992

CONSOLIDATED FREIGHTWAYS (Continued) **U000432349**

Cleanup Complete Date: **06/24/1996**
Decode for Region: **North West Region**

UST:
Name: CONSOLIDATED FREIGHTWAYS
Address: 1947 NW SAVIER ST
City: PORTLAND
Facility ID: 1997
Facility Telephone: (503)226-4692
Permittee Name: JOHN GRIEVE, MANAGER LABOR RELATIONS
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 3
Number of Tanks: 3

AL114 **RAPID TRANSFER** **OR LUST** **1000643529**
SSE **907 NW IRVING** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.394 mi.
2079 ft. **Site 1 of 2 in cluster AL**

Relative: **Higher**
Actual: **39 ft.**

LUST:
Name: RAPID TRANSFER
Address: 907 NW IRVING
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-96-0635
Cleanup Received Date: 11/06/1996
Cleanup Start Date: 12/20/1996
Cleanup Complete Date: **01/29/1997**
Decode for Region: **North West Region**

AM115 **NW PORTLAND MGP** **EDR MGP** **1008408798**
SSE **715 NW HOYT ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.396 mi.
2091 ft. **Site 1 of 2 in cluster AM**

Relative: **Higher**
Actual: **36 ft.**

Manufactured Gas Plants:
Alternate Name:PINTSCH COMPRESSING COMPANY GAS WORKS. No additional information available

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AM116 **HEATING OIL TANK** **OR CRL** **S104657888**
SSE **715 NW HOYT STREET** **OR ECSI** **N/A**
1/4-1/2 **PORTLAND, OR 97208** **OR LUST**
0.396 mi. **OR ENG CONTROLS**
2091 ft. **Site 2 of 2 in cluster AM** **OR INST CONTROL**
OR VCP
Relative: **Higher** **OR BROWNFIELDS**

Actual: **36 ft.**

CRL:
Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
Facility ID: 2183

HEATING OIL TANK (Continued) **S104657888**

Location ID: 21591
Status Code: LIS
Facility Status: REMEDIAL ACTION
Lat/Long: 45.5294 / -122.6789

ECSI:
Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
State ID Number: 2183
Brown ID: Brownfield Site - Assistance From Other Public Agencies
Study Area: False
Region ID: Not reported
Legislatve ID: 831
Investigation: Listed on the CRL/Inventory
FACA ID: 21591
Further Action: 0
Lat/Long (dms): 45 31 45.88 / -122 40 44.21
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 34
Qtr Section: BC
Tax Lots: 100 & 200
Size: 13.37 acres
NPL: False
Orphan: False
Updated By: KDANA
Update Date: 09/18/2020
Created Date: 03/13/1998
Decode For RegionID: Not reported
Decode For BrownID: Brownfield Site - Assistance from Other Public Agencies
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: USPS - Fleet Operations
Alias Name: Main Post Office - Portland
Alias Name: Manufactured Gas Plant - NW Portland
Alias Name: Pintsch Compressing Co. Gas Works
Alias Name: US Post Office (Hoyt Street) - Portland

Hazardous Release:
Substance ID.: 121608
Haz Release ID: 379599
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502

HEATING OIL TANK (Continued) **S104657888**

Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Comment ID: 306037
Release Code: General Comments
Release Comments: Highest concentration detected in MW-3
Decode for Relcomcd: General Comments
Sampling Result ID: 338132
Feature Id: 0
Hazard Release Id: 379599
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 1020.00
Sample Comment: up to 1,020 ppb
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Groundwater

Substance ID.: 122002
Haz Release ID: 379600
Qty Released: unknown
Date Released: Not reported
Update Date: 11/25/2002
Update By: Not reported
Substance Code: ECD243
Substance Name: POLYAROMATIC HYDROCARBONS (PAH)
Substance Abbrev.: Not reported
Substance Alias ID: 318143
Sub Alias Name: PAH
Substance Alias ID: 318148
Sub Alias Name: POLYCYCLIC AROMATIC HYDROCARBONS (PAH)
Substance Alias ID: 318149
Sub Alias Name: POLYNUCLEAR AROMATIC HYDROCARBINS (PNA)

HEATING OIL TANK (Continued) **S104657888**

Substance Alias ID: 318150
Sub Alias Name: PNA
Comment ID: 303593
Release Code: Media Contamination Footnote
Release Comments: As total PAHs. Wells screened at 10 to 25 feet bgs. Up to 370 ug/L carcinogenic PAHs in groundwater. Up to 85 mg/kg carcinogenic PAHs in soils.
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 338135
Feature Id: Not reported
Hazard Release Id: 379600
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 07/01/1989
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0-9760 UGL
Last Update By: jmw
Update Date: 11/25/2002
Decode for MediumID: Groundwater
Sampling Result ID: 338136
Feature Id: Not reported
Hazard Release Id: 379600
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: 0 to 29 feet bgs
Start Date: 07/01/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0-158.05 MGK
Last Update By: jmw
Update Date: 11/25/2002
Decode for MediumID: Soil
Sampling Result ID: 338137
Feature Id: Not reported
Hazard Release Id: 379600
Medium: 700
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 10/01/1990
End Date: Not reported
Min Concentration: Not reported

HEATING OIL TANK (Continued) **S104657888**

Max Concentration: Not reported
Sample Comment: 0-19.047 UGL
Last Update By: jmw
Update Date: 11/25/2002
Decode for MediumID: Other
Sampling Result ID: 338138
Feature Id: Not reported
Hazard Release Id: 379600
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: 0 to 29 feet bgs
Start Date: 07/01/1990
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0-11000 MGK
Last Update By: jmw
Update Date: 11/25/2002
Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 381916
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306039
Release Code: General Comments
Release Comments: Highest groundwater concentration detected in MW-3. Highest soil concentration detected in sample USPS-T#5-2.
Decode for Relcomcd: General Comments
Sampling Result ID: 351153
Feature Id: 0
Hazard Release Id: 381916
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True

HEATING OIL TANK (Continued) **S104657888**

Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 13000.00
Sample Comment: up to 13,000 ppb
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Groundwater
Sampling Result ID: 340361
Feature Id: 0
Hazard Release Id: 381916
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 3.5 ft bgs
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 175000.00
Sample Comment: up to 175,000 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 381917
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 306041
Release Code: General Comments
Release Comments: Highest groundwater concentration detected in MW-3. Highest soil concentration detected in sample USPS-T#5-2.
Decode for Relcomcd: General Comments
Sampling Result ID: 351155
Feature Id: 0
Hazard Release Id: 381917
Medium: 698
Substance Abbrev.: 0

HEATING OIL TANK (Continued) **S104657888**

Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3920.00
Sample Comment: up to 3,920 ppb
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Groundwater
Sampling Result ID: 340362
Feature Id: 0
Hazard Release Id: 381917
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 3.5 ft bgs
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 128000.00
Sample Comment: up to 128,000 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 381920
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE

HEATING OIL TANK (Continued) **S104657888**

Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Sampling Result ID: 340365
Feature Id: Not reported
Hazard Release Id: 381920
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 50.80
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 381921
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Comment ID: 306038
Release Code: General Comments
Release Comments: Highest groundwater concentration detected in MW-3. Highest soil

HEATING OIL TANK (Continued) **S104657888**

concentration detected in sample USPS-T#5-2.
Decode for Relcomcd: General Comments
Sampling Result ID: 351152
Feature Id: 0
Hazard Release Id: 381921
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 27.50
Sample Comment: up to 27.5 ppb
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Groundwater
Sampling Result ID: 340366
Feature Id: 0
Hazard Release Id: 381921
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 3.5 ft bgs
Start Date: Not reported
End Date: Not reported
Min Concentration: .00
Max Concentration: 73.10
Sample Comment: up to 73.1 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 381922
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported

HEATING OIL TANK (Continued) **S104657888**

Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Sampling Result ID: 340367
Feature Id: Not reported
Hazard Release Id: 381922
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 50.50
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 121196
Haz Release ID: 381923
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 207-08-9
Substance Name: BENZO(k)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8478
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317400
Sub Alias Name: B(k)F
Substance Alias ID: 317401
Sub Alias Name: BENZOFLUORANTHENE,11,12-
Sampling Result ID: 340368
Feature Id: Not reported
Hazard Release Id: 381923
Medium: 703

HEATING OIL TANK (Continued) **S104657888**

Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 34.20
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 121210
Haz Release ID: 381924
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 218-01-9
Substance Name: CHRYSENE
Substance Abbrev.: Not reported
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8481
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317438
Sub Alias Name: BENZ(a)PHENANTHRENE
Substance Alias ID: 317439
Sub Alias Name: BENZPHENANTHRENE,1,2-
Substance Alias ID: 317440
Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-
Sampling Result ID: 340369
Feature Id: Not reported
Hazard Release Id: 381924
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 102.00
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999

HEATING OIL TANK (Continued) **S104657888**

Decode for MediumID: Soil

Substance ID.: 121415
Haz Release ID: 381925
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 53-70-3
Substance Name: DIBENZO(a,h)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8499
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318667
Sub Alias Name: DB(a,h)A
Substance Alias ID: 318668
Sub Alias Name: DIBENZ(a,h)ANTHRACENE
Substance Alias ID: 318669
Sub Alias Name: DIBENZANTHRACENE,1,2-5,6-
Substance Alias ID: 318670
Sub Alias Name: DIBENZANTHRACENE,1,2:5,6-
Sampling Result ID: 340370
Feature Id: Not reported
Hazard Release Id: 381925
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 24.20
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 121176
Haz Release ID: 381926
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 193-39-5
Substance Name: INDENO(1,2,3-cd)PYRENE
Substance Abbrev.: Not reported

HEATING OIL TANK (Continued) **S104657888**

Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8493
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317339
Sub Alias Name: PHENYLENEPYRENE,2,3-
Substance Alias ID: 317340
Sub Alias Name: PHENYLENEPYRENE,o-
Sampling Result ID: 340371
Feature Id: Not reported
Hazard Release Id: 381926
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 49.50
Sample Comment: Not reported
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 121868
Haz Release ID: 381932
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: 91-20-3
Substance Name: NAPHTHALENE
Substance Abbrev.: Not reported
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317793
Sub Alias Name: MOTH BALLS
Substance Alias ID: 317794
Sub Alias Name: NAPHTHENE
Substance Alias ID: 317795

HEATING OIL TANK (Continued) **S104657888**

Sub Alias Name: TAR CAMPHOR
Comment ID: 306040
Release Code: General Comments
Release Comments: Highest groundwater concentration detected in MW-3. Highest soil concentration detected in sample USPS-T#5-2.
Decode for Relcomcd: General Comments
Sampling Result ID: 351154
Feature Id: 0
Hazard Release Id: 381932
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3900.00
Sample Comment: up to 3,900 ppb
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Groundwater
Sampling Result ID: 340377
Feature Id: 0
Hazard Release Id: 381932
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 3.5 ft bgs
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 246.00
Sample Comment: up to 246 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121664
Haz Release ID: 381935
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: 7440-38-2
Substance Name: ARSENIC
Substance Abbrev.: Not reported
Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

HEATING OIL TANK (Continued) **S104657888**

Substance Category ID: 8439
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 340380
Feature Id: 0
Hazard Release Id: 381935
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 50.90
Sample Comment: up to 50.9 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 381939
Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 340384
Feature Id: 0
Hazard Release Id: 381939
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported

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Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 3020.00
Sample Comment: up to 3,020 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Substance ID.: 121643
Haz Release ID: 381940
Qty Released: Unknown
Date Released: Not reported
Update Date: 03/17/1999
Update By: Not reported
Substance Code: 7439-97-6
Substance Name: MERCURY
Substance Abbrev.: Not reported
Substance Category ID: 8467
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8467
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319260
Sub Alias Name: HG
Substance Alias ID: 319261
Sub Alias Name: HYDRARGYRUM
Substance Alias ID: 319262
Sub Alias Name: LIQUID SILVER
Substance Alias ID: 319263
Sub Alias Name: QUICKSILVER
Sampling Result ID: 340385
Feature Id: Not reported
Hazard Release Id: 381940
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 110
Observation: True
Owner Operator: True
Lab Data: True
Sample Depth: 2.0 to 12.0 feet bgs
Start Date: 04/10/1997
End Date: 08/19/1997
Min Concentration: .00
Max Concentration: 1.76
Sample Comment: as total mercury
Last Update By: sxf
Update Date: 03/17/1999
Decode for MediumID: Soil

Substance ID.: 122012
Haz Release ID: 388541

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Qty Released: unknown
Date Released: unknown
Update Date: 09/18/2020
Update By: KDANA
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 351156
Feature Id: 0
Hazard Release Id: 388541
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 71000.00
Sample Comment: up to 71,000 ppm
Last Update By: KDANA
Update Date: 09/18/2020
Decode for MediumID: Soil

Narrative:
NARR ID: 5737502
NARR Code: Site Contacts
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 08/02/2013
Decode for NarcdID: Site Contacts
NARR Comments: Hugh Roche United States Postal Service Western FSO 7500 East 53rd Place, Room 1108 Denver, CO 80266-9918 (perhaps no longer active as of 2013) Gary S. Lite Manager, Field Maintenance Operations USPS 715 NW Hoyt Street Portland, OR 97208-4009 503-294-2526 cell 503-680-8561 gary.s.lite@usps.gov (submitted cap inspection report in 2013)

NARR ID: 5737503
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Contamination
NARR Comments: (04/05/2021 KPD/VCP) Subsurface petroleum contamination was

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encountered in 1996-97 during installation of an electrical utility vault near the center of the site. The United States Postal Service (USPS) signed a Letter Agreement with DEQ in December 1999 and conducted a site investigation which focused on the former manufactured gas plant area in the northwest corner of the site. In May 2003, USPS entered into an Intergovernmental Agreement (IGA) with DEQ to fully investigate and, if necessary, clean up the contamination at the site. Contamination at the site was concentrated in four areas: the Electrical Utility Vault area (along the 8th Avenue right-of-way between Johnson & Irving Streets); the former Coach Cleaning area (between 8th & 9th north of Irving); the former Manufactured Gas Plant area (southeast of the 9th & Lovejoy intersection); and the Northeast Corner area. Surface soils (0-3 ft bgs) in the Coach Cleaning area were impacted by up to 600 ppm TPH. In the Electrical Utility Vault area, petroleum-contaminated soils extended up to 10 ft bgs, and TPH concentrations exceeded 5,000 ppm. In the Manufactured Gas Plant area, TPH concentrations exceeded 25,000 ppm in the upper 10 feet of soils and 30,000 ppm in deeper soils, and groundwater was impacted with up to 20,000 ppb TPH. Carcinogenic PAHs, and metals including arsenic and lead, were present in the soils along with the petroleum contamination.

NARR ID: 5737504
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/07/2021
Decode for NarcdID: Data Sources
NARR Comments: 1. November 1997 Excavation, Observation and Monitoring Report for USPS Postal Service and Distribution Center; GeoEngineers. LUST File 26-92-0068 (which now also includes LUST File 26-93-6059). 2. Workplan for Preliminary Site Investigation March 31, 2000. 3. Review of Eastern Half of USPS Property; ARCADIS, July 24, 2002. 4. Final Land Use Evaluation, USPS Portland P&DC, March 26, 2003. 5. Remedial Investigation Proposal and Work Plan; ARCADIS, February 10, 2004. 6. Final Remedial Investigation Report (including Risk Assessment); ARCADIS, April 21, 2006. 7. Final Focused Feasibility Study; ARCADIS, June 30, 2008. 8. DEQ Staff Report; April 30, 2010. 9. DEQ Record of Decision; July 8, 2010. 10. Final Contaminated Media Management Plan; Exponent, April 27, 2011. 11. Closure Report; Exponent, 2012. 12. DEQ NFA Letter; September 25, 2012. 13. Annual Cover Inspection Form. USPS, June 10, 2013. 14. Annual Cover Inspection Report. USPS; July 1, 2015. 15. Prospective Purchaser Agreement with Portland Development Commission. Recorded September 8, 2016. 16. Annual Cover Inspection Report. USPS; July 27, 2016.

NARR ID: 5737505
NARR Code: General Site Description
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: General Site Description
NARR Comments: The United States Postal Service (USPS) site consisted of a 398,000 square foot Processing & Distribution Center (P&DC), a 157,400 sq.ft. multi-story parking structure, and a 10,025 sq.ft. Vehicle

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Maintenance Facility (VMF). The rest of the 13.4-acre site was paved with asphalt. The P&DC processed all outgoing mail for the state of Oregon. The facility was constructed in 1962 on the site of historic railyards and railroad freight terminals (including a turntable, coal bins, a tin shop, and blacksmith and machine shops). A crude oil gasification plant operated on the northwest corner of the site from 1893 to 1934.

NARR ID: 5737506
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Soils are contaminated with total petroleum hydrocarbons (TPH, primarily diesel and heavy oils), polycyclic aromatic hydrocarbons (PAHs), and metals (primarily arsenic and lead, with some cadmium and mercury). TPH, PAHs, and BTEX have been detected in groundwater in the northwest corner of the site (southeat of the intersection of 9th & Lovejoy).

NARR ID: 5751249
NARR Code: Project Issues Summary
Created By: DHAFLEY
Created Date: 03/09/2009
Updated By: DHAFLEY
Updated Date: 09/26/2012
Decode for NarcdID: Project Issues Summary
NARR Comments: See also information for site #2407 (Union Station-Horse Barn aka Station Place Redevelopment). RI, RA, and FS complete. Staff Report report issued May 3, 2010 recommending remedial action for the site under both an Existing Site Use (continued USPS occupancy) and Hypothetical Future Site Use (redevelopment) scenarios. Under Existing Site Use, maintenance of site cap (paving and buildings) is the primary remedial action. The future use scenario assumes removal of the cap, which would trigger removal of soil hots spots and two UST pockets of contamination, followed by capping of the site. Depending on confirmatory sampling results, a vapor barrier may be required the northwest portion of the site. Under both scenarios, measures would be taken prevent excavation work exposure to site contaminants, and use of groundwater would be prohibited. Record of Decision (ROD) issued by DEQ in July 2010, and draft CMMP issued (in lieu of Remedial Action Plan) in November 2010. DEQ comments on the draft CMMP issued in December 2010, and revised CMMP dated April 2011 approved by DEQ. Cap repair completed by USPS in June 2011. Work approved by DEQ and subsequestly completed. Closure Report submitted and approved in 2012 following revision. Conditional NFA issued 9/25/12 following public comment period. Maintenance of site cover required, and prohibition on groundwater use. Appropriate handling of contaminated media covered under Final Contaminated Media Management Plan dated April 2011 and approved by DEQ.

NARR ID: 5737508
NARR Code: Land Use (Current/Reasonably Likely)
Created By: Not reported
Created Date: 12/17/2002

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Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: A historic industrial/commercial area that is rapidly converting to residential and commercial (Pearl District).

NARR ID: 5737509
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 06/18/2020
Decode for NarcdID: Site Location
NARR Comments: The site is bounded by NW Lovejoy Street and the Lovejoy Ramp to the north, the NW Broadway Ramp to the Broadway Bridge to the east, NW Hoyt Street to the south, and NW 9th Avenue to the west.

NARR ID: 5737510
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Manner of Release
NARR Comments: Contamination at the site is attributable to two main sources: a manufactured gas plant that operated from 1893 to 1934, and use of the site as a railyard from the 1880s through the 1950s. Releases also occurred from six underground fuel storage tanks that were present at the site from at least the 1970s through the early 1990s.

NARR ID: 5737511
NARR Code: Media Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 03/09/2009
Decode for NarcdID: Media Contamination
NARR Comments: Soil, groundwater, and potentially surface water. Site-wide, shallow soils are impacted from gas plant, railroad, and USPS (vehicle maintenance building) activity. In the NW site corner, contamination extends into the saturated zone. Groundwater contamination in this NW area is present mainly in the shallow (alluvial) aquifer. There was likely past discharge of contaminants to storm sewers and/or abandoned Tanner Creek conduit.

NARR ID: 5737512
NARR Code: Site Ownership
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 09/15/2020
Decode for NarcdID: Site Ownership
NARR Comments: The Northern Pacific Terminal Company (now Portland Terminal Railroad) owned the site from 1882 to 1974. The United States Postal Service purchased the site in 1974, and sold it to the Portland Development Commission (now Prosper Portland) in 2016.

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NARR ID: 5758115
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 03/29/2021
Updated By: KDANA
Updated Date: 03/29/2021
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site consist of 10-20 feet of fill materials atop native alluvial soils (mostly silts). The depth to shallow groundwater ranges from 10-20 ft bgs. Shallow groundwater on the west side of the site flows to the west (apparently toward the current and abandoned Tanner Creek sewers), while shallow groundwater across the rest of the site is presumed to flow north-northeast about 700 feet to the Willamette River. Stormwater at the USPS facility was directed to the City of Portland's municipal stormwater system.

NARR ID: 5737514
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Remedial Action
NARR Comments: (04/05/2021 KPD/VCP) Five underground storage tanks (USTs) were present at the Vehicle Maintenance Facility (VMF): a 10,000-gallon gasoline UST; two 5,000-gallon diesel USTs; one 1,000-gallon diesel UST; and a 300-gallon waste oil UST. A separate 25,000-gallon Bunker <quot>C<quot> UST, used for heating, was present on the south side of the P&DC building. All six USTs were decommissioned by removal in 1993. About 226 tons of petroleum-contaminated soils (PCS) were excavated from around the VMF tanks and shipped to the Hillsboro Landfill for disposal. About 321 tons of PCS were excavated from around the P&DC tank and shipped to Oregon Hydrocarbon for thermal treatment and disposal. Pockets of residual PCS remained in both excavations. See DEQ LUST file #26-92-0068 for more information. A Remedial Investigation (including risk assessment) of the site was completed in 2006, followed by a Feasibility Study of remedial options in 2008 and a Record of Decision in 2010. The selected remedial action was to cap the contamination beneath the existing hardscape of buildings and asphalt. If the site were to be redeveloped, then approximately 800 cubic yards of hot spot soils from 0-3 ft bgs in the Electrical Utility Vault and Manufactured Gas Plant areas would need to be removed. A vapor barrier would be installed in the MGP area after the excavation. The two pockets of residual PCS contamination would be addressed if the overlying buildings were removed. After a deed restriction was recorded on the site requiring annual inspections and maintenance of the cap, DEQ issued a Conditional No Further Action letter in September 2012.

NARR ID: 5737516
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 05/13/2013
Decode for NarcdID: Health Threats
NARR Comments: Primary concerns were potential dermal contact or incidental soil

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ingestion exposures for site workers (occupational and utility). However, no exposure is expected provided that site cap is maintained. If site redevelopment occurs, notification of excavation workers is necessary, as will be hot spot removal and re-capping.

NARR ID: 5737517
NARR Code: Water Use (Current/Reasonably Likely)
Created By: Not reported
Created Date: 12/17/2002
Updated By: DHAFLEY
Updated Date: 09/26/2012
Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: No groundwater use within the immediate area of the site. Local groundwater likely discharges to the nearby Willamette River, which should be considered a sensitive waterway because of federally-listed anadromous species. Site-related groundwater contamination is localized in northwest site corner and no expected to represent a significant off-site risk.

NARR ID: 5743710
NARR Code: Site History
Created By: GWISTAR
Created Date: 06/27/2003
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Site History
NARR Comments: The site and surrounding area was originally marshlands associated with Couch Lake, Tanner Creek, and the Willamette River. The area was filled in with imported soils beginning in 1880. The Northern Pacific Terminal Company owned the site as of 1882, and a railyard was established at the site in the 1880s. The western half of the site (the Coach Cleaning Area) was used for the staging, cleaning, provisioning, and maintenance of rail cars. The eastern half of the site was occupied by two long, narrow warehouses (freight depots) with rail lines in between them. The railyard operated through the 1950s. The Pintsch Compressing Company operated a manufactured gas plant at 838 NW 9th Avenue (SE corner of 9th & Lovejoy) from 1893 to 1934. The plant produced compressed gas from naphtha-grade oil for the lighting of passenger rail coaches. The plant was razed by 1950. Between 1887 and 1890 a brick-lined sewer was constructed beneath NW 9th Avenue to contain Tanner Creek. Tanner Creek was later routed through a concrete sewer beneath NW 10th Avenue. The old Tanner Creek sewer was abandoned by filling with sand circa 1917. See ECSI #5328 for more information on the Abandoned Tanner Creek Sewer. The United States Postal Service (USPS) opened a Processisng & Distribution Center on the site in 1962. USPS purchased the site in 1974, and constructed an employee parking garage at the south end of the site in 1987.

NARR ID: 5755195
NARR Code: 1922
Created By: DHAFLEY
Created Date: 07/07/2014
Updated By: KDANA
Updated Date: 04/05/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The United States Postal Service (USPS) constructed a Processing &

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Distribution Center (P&DC) at this site in 1962. The P&DC operated at the site until 2018, and processed all outgoing mail for the state of Oregon. The site had originally been developed as a railyard in the early 1880s, with railcar repair and cleaning on the west side of the site and freight depots on the east side. A manufactured gas plant was present on the northwest corner of the site, at NW 9th & Lovejoy, from 1893 to 1934, producing compressed gas for lighting passenger rail coaches. Six underground storage tanks, some of which had leaked, were removed from the USPS P&DC site in 1993 and 1994. Petroleum-contaminated soils were also identified during excavations for an electrical utility vault in 1996 and 1997. DEQ added the site to the ECSI database in 1998, and the USPS signed a Voluntary Cleanup Agreement with DEQ in December 1999. An Intergovernmental Agreement was signed in May 2003. A Remedial Investigation was completed under DEQ oversight in April 2006, followed by a Feasibility Study in June 2008. DEQ completed a Staff Report in April 2010 and issued a Record of Decision in July 2010. DEQ determined that soils on the western half of the site were impacted, mostly by petroleum, and that groundwater in the northwest corner of the site had also been impacted. However, there were no unacceptable risks to human health or the environment, so long as the site remained capped by buildings and asphalt. A deed restriction requiring annual inspections and maintenance of the building and asphalt cap was recorded on the site in October 2011, and DEQ issued a Conditional No Further Action for the site in September 2012. In May 2016, the Portland Development Commission (PDC, now known as Prosper Portland) entered into a Prospective Purchaser Agreement (PPA) with DEQ. The PDC agreed to purchase the site and clean up gross contamination before selling off individual parcels for redevelopment. Final cleanup of each parcel would be conducted under a Master Remedial Action Work Plan included with the PPA. The USPS relocated their operations to a new facility near Portland International Airport in 2018. (See ECSI #5890). Shallow contaminated soils were removed from the north end of the site in August-September 2020. Demolition of the P&DC is scheduled to begin in the spring of 2021.

Site Control:

Site Control #:	1275
Control Number:	3
Begin Date:	10/07/2011
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	D. Hafley
Last Reviewed Date:	Not reported
Last Update By:	KDANA
Last Updated Date:	03/02/2020
Site Comment:	EES recorded on property deed with four restrictions: no beneficial use of groundwater, maintenance of the existing cap of buildings and pavement, installation of a fence and warning signs if the property is vacated, and no residential reuse of the property.

Site Control #:	1286
Control Number:	29
Begin Date:	10/07/2011
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	D. Hafley
Last Reviewed Date:	Not reported

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Last Update By: KDANA
Last Updated Date: 06/30/2020
Site Comment: If the Property is vacated, Owner shall install and maintain a fence around the Property and post warning signs at the Property as necessary to prohibit entry and warn of potential hazards of exposure to contaminants at levels that exceed acceptable risk levels.

Site Control #: 1287
Control Number: 5
Begin Date: 10/07/2011
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: D. Hafley
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 06/30/2020
Site Comment: The following operations and uses are prohibited on the Property: Residential use of any type; and Agricultural [food-crop] use of any type.

Site Control #: 645
Control Number: 36
Begin Date: 05/02/2011
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: D. Hafley
Last Reviewed Date: 05/06/2019
Last Update By: DHAFLEY
Last Updated Date: 05/06/2019
Site Comment: Site paving and buildings are acting as a cap for contaminated soil under current USPS ownerhip/operation. Yearly inspection of the cap required pending 5-year review. Last cap inspection July 2016. Cap appears to be in good condition. 2017 cap inspection completed January 2018 (late). Results acceptable. Cap Inspection completed in May 2019 likewise acceptable. No redevelopment work at the site has yet begun.

Site Control #: 646
Control Number: 4
Begin Date: 10/07/2011
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: D. Hafley
Last Reviewed Date: Not reported
Last Update By: KDANA
Last Updated Date: 06/30/2020
Site Comment: Owner shall not extract through wells or by other means or use the groundwater at the Property for consumption or other beneficial use.

Administrative Action:
Action ID: 9440
Region: Northwestern Region
Complete Date: 12/21/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

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Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 07/11/2003
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: 04/21/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/09/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: Medium
Comments: Not reported

Action ID: 9429
Region: Northwestern Region
Complete Date: 12/08/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/09/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: Medium
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 07/14/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/19/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

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Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 09/26/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/24/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9441
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/27/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Memorandums of Agreement
Further Action: 0
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: 04/21/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/27/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Northwestern Region
Complete Date: 10/07/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control

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Further Action: 0
Comments: Not reported

Action ID: 9473
Region: Northwestern Region
Complete Date: 07/31/2020
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL DESIGN
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/10/2020
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Northwestern Region
Complete Date: 03/17/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Northwestern Region
Complete Date: 03/17/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported

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Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 11/19/1999
Rank Value: 7
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Northwestern Region
Complete Date: 08/25/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Northwestern Region
Complete Date: 08/25/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Northwestern Region
Complete Date: 10/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

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Action ID: 9439
Region: Northwestern Region
Complete Date: 10/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Northwestern Region
Complete Date: 12/21/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 03/13/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 03/16/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9503

HEATING OIL TANK (Continued) **S104657888**

Region: Northwestern Region
Complete Date: 03/16/1999
Rank Value: 86
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation/Feasibility Study recommended
Further Action: High
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 03/13/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 09/26/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/26/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/07/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: Low
Comments: Not reported

Action ID: 9464
Region: Northwestern Region

HEATING OIL TANK (Continued) **S104657888**

Complete Date: 09/08/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/02/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

Operations:

Operation Id: 133420
Operation Status: Inactive
Common Name: United States Postal Service
Yrs of Operation: 1962 to 2018
Comments: Processing and distribution of mail
Updated Date: 09/15/2020
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 196735
SIC Code: 4311
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133421
Operation Status: Inactive
Common Name: Pintsch Compressing Company
Yrs of Operation: 1893 to 1934
Comments: Manufactured compressed gas from naphtha-grade oil.
Updated Date: 09/15/2020
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199402
SIC Code: 4925
Created By: KDANA
Created Date: 09/15/2020

Operation Id: 135988
Operation Status: Inactive
Common Name: Northern Pacific Terminal Company
Yrs of Operation: 1882 to 1959
Comments: Railroad switching yard
Updated Date: 09/15/2020
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199403
SIC Code: 4011
Created By: KDANA
Created Date: 09/15/2020

LUST:

Name: HEATING OIL TANK
Address: 715 NW HOYT STREET
City,State,Zip: PORTLAND, OR 97208
Region: North Western Region

HEATING OIL TANK (Continued) **S104657888**

Facility ID: 26-92-0068
Cleanup Received Date: 03/11/1992
Cleanup Start Date: 02/28/1995
Cleanup Complete Date: 11/29/1995
Decode for Region: North West Region

Enginering Control:
Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 1286
Site Id: 2183
Control Sequence #: 29
Begin Date: 10/07/2011
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: D. Hafley
Last Review Date: Not reported
Last Updated By: KDANA
Last Updated Date: 06/30/2020
Group Sequence #: 7
Control Code: FAB
Control Description: Fencing or other access barriers
FK Type Code: 2
Group Code: SM
Group Description: Security Measures
Type Code: E
Type Description: Engineering
Comments: If the Property is vacated, Owner shall install and maintain a fence around the Property and post warning signs at the Property as necessary to prohibit entry and warn of potential hazards of exposure to contaminants at levels that exceed acceptable risk levels.

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 645
Site Id: 2183
Control Sequence #: 36
Begin Date: 05/02/2011
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: D. Hafley
Last Review Date: 05/06/2019
Last Updated By: DHAFLEY
Last Updated Date: 05/06/2019
Group Sequence #: 9
Control Code: CPE
Control Description: Cap, engineered
FK Type Code: 2
Group Code: SB
Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Site paving and buildings are acting as a cap for contaminated soil under current USPS ownerhip/operation. Yearly inspection of the cap required pending 5-year review. Last cap inspection July 2016. Cap

HEATING OIL TANK (Continued) **S104657888**

appears to be in good condition. 2017 cap inspection completed January 2018 (late). Results acceptable. Cap Inspection completed in May 2019 likewise acceptable. No redevelopment work at the site has yet begun.

Institutional Control:

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	646
Site Id:	2183
Control Sequence #:	4
Begin Date:	10/07/2011
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	D. Hafley
Last Review Date:	Not reported
Last Updated By:	KDANA
Last Updated Date:	06/30/2020
Group Sequence #:	2
Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Owner shall not extract through wells or by other means or use the groundwater at the Property for consumption or other beneficial use.

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
Site Control Sequence #:	1287
Site Id:	2183
Control Sequence #:	5
Begin Date:	10/07/2011
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	D. Hafley
Last Review Date:	Not reported
Last Updated By:	KDANA
Last Updated Date:	06/30/2020
Group Sequence #:	2
Control Code:	USL
Control Description:	Use Restriction Land
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	The following operations and uses are prohibited on the Property: Residential use of any type; and Agricultural [food-crop] use of any type.

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209

HEATING OIL TANK (Continued) **S104657888**

Site Control Sequence #:	1275
Site Id:	2183
Control Sequence #:	3
Begin Date:	10/07/2011
End Date:	Not reported
Frequency Of Review:	0
Last Reviewed By:	D. Hafley
Last Review Date:	Not reported
Last Updated By:	KDANA
Last Updated Date:	03/02/2020
Group Sequence #:	2
Control Code:	EES
Control Description:	Easement Equitable Servitude
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	EES recorded on property deed with four restrictions: no beneficial use of groundwater, maintenance of the existing cap of buildings and pavement, installation of a fence and warning signs if the property is vacated, and no residential reuse of the property.

VCS:

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2183
Facility Size:	13.37 acres
Action:	FEASIBILITY STUDY
Start Date:	06/04/2007
End Date:	12/08/2008
Program:	VCP
Latitude:	45.5294
Longitude:	-122.6789

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2183
Facility Size:	13.37 acres
Action:	Prospective Purchaser Agreement
Start Date:	01/12/2016
End Date:	09/08/2016
Program:	VCP
Latitude:	45.5294
Longitude:	-122.6789

Name:	US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address:	715 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	2183
Facility Size:	13.37 acres
Action:	Engineering Control
Start Date:	09/26/2012
End Date:	Not reported
Program:	VCP

HEATING OIL TANK (Continued) **S104657888**

Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: REMEDIAL DESIGN
Start Date: 04/01/2020
End Date: 07/31/2020
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: Institutional Control
Start Date: 10/07/2011
End Date: 10/07/2011
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: Letter Agreement
Start Date: 12/21/1999
End Date: 12/21/1999
Program: VCS
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: SITE INVESTIGATION
Start Date: 12/21/1999
End Date: 07/11/2003
Program: VCS
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: VCS Waiting List

HEATING OIL TANK (Continued) **S104657888**

Start Date: 07/06/1999
End Date: 11/19/1999
Program: VCS
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: REMEDIAL ACTION
Start Date: 08/03/2020
End Date: Not reported
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: Memorandums of Agreement
Start Date: 05/21/2003
End Date: Not reported
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: RISK ASSESSMENT
Start Date: 06/29/2005
End Date: 04/21/2006
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: RECORD OF DECISION
Start Date: 03/09/2009
End Date: 07/14/2010
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209

HEATING OIL TANK (Continued) **S104657888**

ECS Site ID: 2183
Facility Size: 13.37 acres
Action: No Further Action (Conditional)
Start Date: 09/26/2012
End Date: 09/26/2012
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: REMEDIAL ACTION
Start Date: 07/15/2010
End Date: 09/26/2012
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: NEGOTIATIONS
Start Date: 11/19/1999
End Date: 12/21/1999
Program: VCS
Latitude: 45.5294
Longitude: -122.6789

Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 2183
Facility Size: 13.37 acres
Action: REMEDIAL INVESTIGATION
Start Date: 07/11/2003
End Date: 04/21/2006
Program: VCP
Latitude: 45.5294
Longitude: -122.6789

OR BROWNFIELDS:
Name: US POSTAL SERVICE PROCESSING & DISTRIBUTION CENTER
Address: 715 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
Geolocation Id: 21591
Status: REMEDIAL ACTION
Lat/Long: 45.5294 / -122.678

AN117 **UNOCAL 0738** **OR ECSI** **U004015073**
SW **930 NW 18TH** **OR LUST** **N/A**
1/4-1/2 **PORTLAND, OR 97209** **OR UST**
0.397 mi. **OR VCP**
2095 ft. **Site 1 of 3 in cluster AN**

Relative:
Higher

Actual:
65 ft.

ECSI:

Name:	UNOCAL SERVICE STATION #0738
Address:	930 NW 18TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	1396
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	2338
Further Action:	0
Lat/Long (dms):	45 31 47.30 / -122 41 21.50
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	08/16/2007
Created Date:	06/29/1993
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	122012
Haz Release ID:	383634
Qty Released:	unknown
Date Released:	unknown
Update Date:	06/29/1993
Update By:	Not reported
Substance Code:	ECD275
Substance Name:	TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.:	Not reported
Substance Category ID:	8540
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8540
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported

UNOCAL 0738 (Continued) **U004015073**

Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 344082
Feature Id: Not reported
Hazard Release Id: 383634
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: up to 2900 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Narrative:
NARR ID: 5733053
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (6/29/1993 KPD/SAS) Unocal has operated a service station on the site for an unknown length of time. The underground storage tanks were excavated and removed in July 1990. Two areas of petroleum contamination remained. Contamination on the southern site boundary could not be removed without undermining an adjacent building. Resampling on the southern boundary in late 1992 found that the contaminants had biodegraded to non-hazardous levels. The other pocket of contamination, on the north and east property boundaries (which cannot be removed without undermining adjacent streets) is believed to have biodegraded also but has not been resampled.

NARR ID: 5733054
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1) LUST log #26-88-0061. 2) UST facility #921. 3) Soil and Groundwater Investigation Report.

NARR ID: 5733055
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: petroleum

UNOCAL 0738 (Continued) **U004015073**

NARR ID: 5733056
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: SE corner of NW 18th AVE and NW Lovejoy ST

NARR ID: 5733057
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Probably leaking underground storage tanks. Time of release: unknown

NARR ID: 5733058
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: No hazardous levels of contaminants have been detected in the groundwater.

NARR ID: 5733059
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (6/29/1993 KPD/SAS) Most of the contaminants have probably biodegraded since the site was excavated in July 1990. However, Site Assessment recommends sampling on the north and east property boundaries to confirm this and to determine if an NFA recommendation is appropriate. (5/28/00 SAM/VCP) UST Section issued NFA for petroleum releases October 13, 1993. Perchloroethylene (570 ppb) and trichloroethane (450 ppb) concentrations in soil are less than EPA Region 9 Preliminary Remediation Goals for residential use. Therefore, no further action appears necessary at the site.

Administrative Action:
Action ID: 9505
Region: Headquarters
Complete Date: 07/02/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Site Confirmatory Sampling recommended
Further Action: Not reported

UNOCAL 0738 (Continued) **U004015073**

Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 06/30/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 07/01/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

UNOCAL 0738 (Continued) **U004015073**

Action ID: 9440
Region: Northwestern Region
Complete Date: 05/24/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 05/30/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132710
Operation Status: Inactive
Common Name: Unocal Service Station #0738
Yrs of Operation: unknown
Comments: Service station
Updated Date: 03/21/1996
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 195888
SIC Code: 5541
Created By: Not reported
Created Date: 12/17/2002

LUST:
Name: UNOCAL STATION #0738
Address: 930 NW 18TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-88-0061
Cleanup Received Date: 09/20/1988
Cleanup Start Date: 07/16/1990
Cleanup Complete Date: 05/19/1993
Decode for Region: North West Region

UST:
Name: UNOCAL 0738
Address: 930 NW 18TH
City: PORTLAND

UNOCAL 0738 (Continued) **U004015073**

Facility ID:	921
Facility Telephone:	(503)244-1072
Permittee Name:	RICHARD LAVELY, DEALER
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	6
Number of Tanks:	6

VCS:

Name:	UNOCAL SERVICE STATION #0738
Address:	930 NW 18TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1396
Facility Size:	Not reported
Action:	Letter Agreement
Start Date:	05/24/2000
End Date:	05/24/2000
Program:	VCS
Latitude:	45.5298
Longitude:	-122.6893

Name:	UNOCAL SERVICE STATION #0738
Address:	930 NW 18TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	1396
Facility Size:	Not reported
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	05/30/2000
End Date:	05/30/2000
Program:	VCS
Latitude:	45.5298
Longitude:	-122.6893

AF118 **INDUSTRIAL CATERING, INC.** **OR LUST** **U003839009**
WSW **1940 NW OVERTON ST.** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.397 mi.
2097 ft. **Site 3 of 4 in cluster AF**

Relative:
Higher

Actual:
64 ft.

LUST:

Name:	INDUSTRIAL CATERING, INC.
Address:	1940 NW OVERTON ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-02-0006
Cleanup Received Date:	02/12/2002
Cleanup Start Date:	02/12/2002
Cleanup Complete Date:	**08/28/2002**
Decode for Region:	**North West Region**

UST:

Name:	INDUSTRIAL CATERING, INC.
Address:	1940 NW OVERTON ST.
City:	PORTLAND
Facility ID:	12121
Facility Telephone:	(503) 227-6422
Permittee Name:	MIKE FAGAN, OWNER

INDUSTRIAL CATERING, INC. (Continued) **U003839009**

Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

AF119 **HEINDRICKS MOTOR CO.** **OR LUST** **U000432389**
WSW **1947 NW OVERTON** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.399 mi.
2105 ft. **Site 4 of 4 in cluster AF**

Relative:
Higher

Actual:
65 ft.

LUST:
Name: HENDRIX MOTOR CO.
Address: 1947 NW OVERTON
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-89-0095
Cleanup Received Date: 05/22/1989
Cleanup Start Date: 05/22/1989
Cleanup Complete Date: 08/04/1989
Decode for Region: North West Region

UST:
Name: HEINDRICKS MOTOR CO.
Address: 1947 NW OVERTON
City: PORTLAND
Facility ID: 9438
Facility Telephone: (503)224-4840
Permittee Name: MARGARET ROTHMAN
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

AH120 **HEATING OIL TANK** **OR LUST** **S105154085**
West **1955 NW RALEIGH** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.399 mi.
2106 ft. **Site 3 of 4 in cluster AH**

Relative:
Higher

Actual:
57 ft.

LUST:
Name: HEATING OIL TANK
Address: 1955 NW RALEIGH
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-01-8034
Cleanup Received Date: 09/20/2001
Cleanup Start Date: 09/20/2001
Cleanup Complete Date: 12/18/2001
Decode for Region: North West Region

121
ENE
1/4-1/2
0.401 mi.
2116 ft.

BSS ALBINA
2100 N. ALBINA STREET
PORTLAND, OR 97227

OR ECSI **S122879590**
OR VCP **N/A**

Relative:
Higher

Actual:
43 ft.

ECSI:

Name:	BSS ALBINA
Address:	2100 N. ALBINA STREET
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	6287
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	151961
Further Action:	0
Lat/Long (dms):	45 32 17.00 / -122 40 32.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	Not reported
Tax Lots:	6500 and 6501
Size:	1.78 acres
NPL:	False
Orphan:	False
Updated By:	HNELSON
Update Date:	09/04/2018
Created Date:	08/07/2018
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5757230
NARR Code:	Contamination
Created By:	GGAMOLO
Created Date:	08/07/2018
Updated By:	GGAMOLO
Updated Date:	08/07/2018
Decode for NarcdID:	Contamination

NARR Comments: Phase 1 Environmental Site Assessment prepared by K&S Environmental, Inc., dated December 19, 2017 Soil samples collected from 9 direct-push borings advanced at the project site indicated that fill material present beneath the project site is impacted with metals and PAHs. Leachable lead was detected in one of the soil samples at a concentration greater than the EPA hazardous waste regulatory level, but less than applicable DEQ RBCs. Arsenic was detected at concentrations greater than DEQ Soil Ingestion, Dermal Contact, and Inhalation RBC for an occupational receptor. Groundwater samples indicated that petroleum hydrocarbons were detected at concetrations less than applicable DEQ RBCs.

BSS ALBINA (Continued) **S122879590**

NARR ID: 5757245
NARR Code: General Site Description
Created By: HNELSON
Created Date: 09/04/2018
Updated By: HNELSON
Updated Date: 09/04/2018
Decode for NarcdID: General Site Description
NARR Comments: The property proposed for acquisition by Defendant, currently owned by Wayne B. and Rebecca A Van Raden (the Van Radens), is an approximately 1.78 acre site located at 2100 N. Albina Street, Multnomah County, Oregon. (3) According to reports on the Property, the site has been developed since the late 1800s. Until the 1920s, uses of the Property included residential and storefront commercial. Between the 1930s and 1970s, a variety of commercial operations were conducted on the Property, including various machine shop and fabrication operators, lumber companies and concrete companies. Between the late 1970s and 1984, the Property was vacant, at which time it was purchased by the Van Radens. Since being acquired by the Van Radens, the Property has primarily been used as a welding and fabrication shop specializing in heavy haul trailer suspension repairs. The Property was divided by an overpass built by the City of Portland in the early 2000s. Presently, a large (divided) warehouse, a single story office/administrative building, a storage shed and parking are the main features on the Property. Currently, the property owner is seeking a PPA agreement to redevelop the property.

NARR ID: 5757837
NARR Code: 1922
Created By: RHOOD
Created Date: 03/24/2020
Updated By: RHOOD
Updated Date: 05/20/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: GeoDesign submitted groundwater source control evaluation in July 2019. DEQ provided reply on 3/24/2020. NW SCE report submitted in Jan 2021. In DEQ review.

Administrative Action:
Action ID: 9524
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/23/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SCE
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 08/07/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/07/2018

BSS ALBINA (Continued) **S122879590**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/07/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9464
Region: Northwestern Region
Complete Date: 06/26/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/04/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: 0
Comments: Not reported

VCS:
Name: BSS ALBINA
Address: 2100 N. ALBINA STREET
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 6287
Facility Size: 1.78 acres
Action: SITE INVESTIGATION
Start Date: 08/07/2018
End Date: Not reported
Program: VCP
Latitude: 45.5381
Longitude: -122.6757

Name: BSS ALBINA
Address: 2100 N. ALBINA STREET
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 6287
Facility Size: 1.78 acres
Action: Source Control Evaluation
Start Date: 09/23/2019
End Date: Not reported

BSS ALBINA (Continued) **S122879590**

Program: vcp
Latitude: 45.5381
Longitude: -122.6757

AI122 **ALBINA OPERATIONS CENTER** **OR LUST** **U000433387**
NE **2126 N LEWIS AVE** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.401 mi.
2118 ft. **Site 2 of 2 in cluster AI**

Relative: **Higher**
Actual: **38 ft.**

LUST:
Name: ALBINA OPERATIONS CENTER
Address: 2126 NORTH LEWIS
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-91-0218
Cleanup Received Date: 06/06/1991
Cleanup Start Date: 06/05/1991
Cleanup Complete Date: 09/10/1993
Decode for Region: North West Region

UST:
Name: ALBINA OPERATIONS CENTER
Address: 2126 N LEWIS AVE
City: PORTLAND
Facility ID: 4008
Facility Telephone: (503) 280-2715
Permittee Name: JIM WALTERS, DIVISION LINE SUPER
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 3
Number of Tanks: 3

---

123 **SAKRETE OF PACIFIC NORTHWEST** **OR LUST** **U000433418**
North **1402 N RIVER ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.402 mi.
2124 ft.

Relative: **Lower**
Actual: **24 ft.**

LUST:
Name: SAKRETE OF PAC. NW/SACKRETE PROPERTY
Address: 1402 N RIVER ST
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-90-0500
Cleanup Received Date: 12/21/1990
Cleanup Start Date: 12/14/1990
Cleanup Complete Date: 03/18/1992
Decode for Region: North West Region

UST:
Name: SAKRETE OF PACIFIC NORTHWEST
Address: 1402 N RIVER ST
City: PORTLAND
Facility ID: 10654

SAKRETE OF PACIFIC NORTHWEST (Continued) **U000433418**

Facility Telephone: (503) 285-0241
Permittee Name: MR BOB MCHUGH, MANAGER/OWNER
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

AO124 **VERMICULITE NORTHWEST, INC. (FORMER)** **OR ECSI** **S106236597**
NNE **2303 N HARDING AVE.** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.406 mi.
2144 ft. **Site 1 of 2 in cluster AO**

Relative:
Higher

Actual:
37 ft.

ECSI:
Name: VERMICULITE NORTHWEST, INC. (FORMER)
Address: 2303 N HARDING AVE.
City,State,Zip: PORTLAND, OR 97227
State ID Number: 2761
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Suspect
FACA ID: 7324
Further Action: 0
Lat/Long (dms): 45 32 22.60 / -122 40 43.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: SFN1002216
Township Coord.: 1.00
Township Zone: N
Range Coord: 1.00
Range Zone: E
Section Coord: 27
Qtr Section: CB
Tax Lots: 900
Size: 0.46 acre
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 06/23/2015
Created Date: 11/22/2000
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: WR Grace

Narrative:
NARR ID: 5740400
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (11/27/00 GMW/SAS) According to EPA, this is one of a number of

VERMICULITE NORTHWEST, INC. (FORMER) (Continued) **S106236597**

former W.R. Grace facilities nationwide that processed or handled vermiculite ore from a mine in Montana. This ore contained asbestos as a by-product. Vermiculite has several uses, such as a soil amendment for house plants.

NARR ID: 5740401
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Asbestos

NARR ID: 5740402
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 09/04/2013
Decode for NarcdID: Remedial Action
NARR Comments: (11/27/00 GMW/SAS) EPA Region 10 has added the site to CERCLIS as part of its nationwide investigation of former WR Grace facilities that handled asbestos-containing vermiculite. DEQ has not been involved in the investigation at this site, but will be tracking EPA's efforts to determine whether the past handling of asbestos-containing vermiculite presents any current threats to human health or the environment. (9/4/13 GMW/SAS) EPA conducted a removal action for asbestos between June and Novermber 2006.

NARR ID: 5740403
NARR Code: Substances of Concern
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Substances of Concern
NARR Comments: Asbestos

NARR ID: 5754834
NARR Code: Site History
Created By: GWISTAR
Created Date: 09/04/2013
Updated By: GWISTAR
Updated Date: 09/04/2013
Decode for NarcdID: Site History
NARR Comments: [From EPA Removal Report]: The building was built in the 1940s, and W. R. Grace operated it as Vermiculite Northwest until the early 1990s. The facility was used as a processing plant for vermiculite ore mined in Libby, Montana. W. R. Grace shipped raw vermiculite ore via rail to processing plants throughout the country, including this facility in Portland. At the facility, the raw vermiculite ore was processed for use in consumer and building products, by mixing it with hot air, whereupon it would greatly expand in size. The processed vermiculite had many useful properties; it was a lightweight material that was absorbent, fireproof, and a good insulator. W. R. Grace used the processed vermiculite in a number of

VERMICULITE NORTHWEST, INC. (FORMER) (Continued) **S106236597**

consumer and building products, including a soil conditioner for gardening, as house insulation, and as a spray-applied fire-proofing.

 In the late 1990s, a local businessman named Walter Pelett, Sr. bought the building, and he sold it in early 2006 to Greg Nystrom and Walter Pelett III of Priority Delivery, who are the current owners (as of 2007). As a condition for the sale of the building, Mr. Pelett, Sr. agreed to be responsible for any asbestos-related issues.

NARR ID: 5754811
NARR Code: 1922
Created By: GWISTAR
Created Date: 08/23/2013
Updated By: GWISTAR
Updated Date: 08/23/2013
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [Aug. 13] EPA Region 10 completed a removal of asbestos from the site in 2006 (with no DEQ involvement), and made a federal <quot>no further remedial action planned<quot> determination in July 2007. DEQ has no plans for follow-up at this site.

Administrative Action:
Action ID: 9424
Region: Northwestern Region
Complete Date: 11/22/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Headquarters
Complete Date: 11/22/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Low
Comments: Not reported

Action ID: 9421
Region: Not reported
Complete Date: 02/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported

VERMICULITE NORTHWEST, INC. (FORMER) (Continued) **S106236597**

Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9492
Region: 0
Complete Date: 08/08/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/17/2013
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: 0
Complete Date: 11/11/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/17/2013
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9444
Region: 0
Complete Date: 07/27/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/17/2013
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: 0
Comments: Not reported

Action ID: 9413
Region: Northwestern Region
Complete Date: 08/03/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/23/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

VERMICULITE NORTHWEST, INC. (FORMER) (Continued) **S106236597**

Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133955
Operation Status: Unknown
Common Name: Vermiculite Northsest, Inc.
Yrs of Operation: unknown
Comments: Not reported
Updated Date: 11/22/2000
Updated By: jmw
Decode for OpstatID: Unknown

AO125 **VERMICULITE NORTHWEST, INC. (FORMER)** **SEMS-ARCHIVE** **1009998434**
NNE **2303 N. HARDING AVE.** **ORSFN1002216**
1/4-1/2 **PORTLAND, OR 97227**
0.406 mi.
2144 ft. **Site 2 of 2 in cluster AO**

Relative:
Higher

Actual:
37 ft.

SEMS Archive:
Site ID: 1002676
EPA ID: ORSFN1002216
Name: VERMICULITE NORTHWEST, INC. (FORMER)
Address: 2303 N. HARDING AVE.
Address 2: Not reported
City,State,Zip: PORTLAND, OR 97227
Cong District: Not reported
FIPS Code: 41051
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Archive Detail:
Region: 10
Site ID: 1002676
EPA ID: ORSFN1002216
Site Name: VERMICULITE NORTHWEST, INC. (FORMER)
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2006-11-11 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 10
Site ID: 1002676
EPA ID: ORSFN1002216
Site Name: VERMICULITE NORTHWEST, INC. (FORMER)
NPL: N
FF: N
OU: 00
Action Code: VU
Action Name: UNARCHIVE

VERMICULITE NORTHWEST, INC. (FORMER) (Continued) **1009998434**

SEQ: 1
Start Date: Not reported
Finish Date: 2007-06-29 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 10
Site ID: 1002676
EPA ID: ORSFN1002216
Site Name: VERMICULITE NORTHWEST, INC. (FORMER)
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 2
Start Date: Not reported
Finish Date: 2007-07-27 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 10
Site ID: 1002676
EPA ID: ORSFN1002216
Site Name: VERMICULITE NORTHWEST, INC. (FORMER)
NPL: N
FF: N
OU: 00
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 2004-05-05 04:00:00
Finish Date: 2004-08-08 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 10
Site ID: 1002676
EPA ID: ORSFN1002216
Site Name: VERMICULITE NORTHWEST, INC. (FORMER)
NPL: N
FF: N
OU: 00
Action Code: PJ
Action Name: RP EM REM
SEQ: 1
Start Date: 2005-03-06 05:00:00
Finish Date: 2006-11-11 05:00:00
Qual: C
Current Action Lead: EPA Ovrsght

AH126 **HEATING OIL TANK** **OR LUST** **S105154087**
West **1965 NW RALEIGH ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.408 mi.
2156 ft. **Site 4 of 4 in cluster AH**

Relative: **Higher**
Actual: **58 ft.**

LUST:

Name:	HEATING OIL TANK
Address:	1965 NW RALEIGH ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-01-8036
Cleanup Received Date:	09/20/2001
Cleanup Start Date:	09/20/2001
Cleanup Complete Date:	**04/01/2002**
Decode for Region:	**North West Region**

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127 **MATERIALS TEST LAB, CITY OF PORTLAND** **OR LUST** **U000433408**
North **1405 N RIVER ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.422 mi.
2230 ft.

Relative: **Lower**
Actual: **34 ft.**

LUST:

Name:	MATERIAL TEST LAB
Address:	1405 N RIVER ST
City,State,Zip:	PORTLAND, OR 97227
Region:	North Western Region
Facility ID:	26-00-0469
Cleanup Received Date:	04/07/2000
Cleanup Start Date:	04/07/2000
Cleanup Complete Date:	**07/12/2007**
Decode for Region:	**North West Region**

UST:

Name:	MATERIALS TEST LAB, CITY OF PORTLAND
Address:	1405 N RIVER ST
City:	PORTLAND
Facility ID:	9254
Facility Telephone:	(503) 248-5557
Permittee Name:	JOHN O'DONOVAN
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	3
Number of Tanks:	5

AL128 **HEATING OIL TANK** **OR LUST** **S104658309**
SSE **630 NW 10TH** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.425 mi.
2244 ft. **Site 2 of 2 in cluster AL**

Relative: **Higher**
Actual: **40 ft.**

LUST:

Name:	HEATING OIL TANK
Address:	630 NW 10TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-00-5030

HEATING OIL TANK (Continued) **S104658309**

Cleanup Received Date: 06/06/2000
Cleanup Start Date: 06/06/2000
Cleanup Complete Date: 02/26/2004
Decode for Region: North West Region

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129 **ENGINE-3** **OR LUST** **U000432383**
SW **1715 NW JOHNSON ST** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.426 mi.
2250 ft.

Relative:
Higher

Actual:
66 ft.

LUST:
Name: ENGINE-3
Address: 1715 NW JOHNSON ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-92-0341
Cleanup Received Date: 12/04/1992
Cleanup Start Date: 12/04/1992
Cleanup Complete Date: 06/09/1995
Decode for Region: North West Region

UST:
Name: ENGINE-3
Address: 1715 NW JOHNSON ST
City: PORTLAND
Facility ID: 6552
Facility Telephone: (503)224-2637
Permittee Name: STATION CAPTAIN
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

AN130 **HEATING OIL TANK** **OR LUST** **S100500549**
SW **1815 NW KEARNEY** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.427 mi.
2253 ft. **Site 2 of 3 in cluster AN**

Relative:
Higher

Actual:
69 ft.

LUST:
Name: HEATING OIL TANK
Address: 1815 NW KEARNEY
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-89-0224
Cleanup Received Date: 10/12/1989
Cleanup Start Date: 10/05/1989
Cleanup Complete Date: 10/30/1989
Decode for Region: North West Region

131
SE
1/4-1/2
0.434 mi.
2290 ft.

UNION STATION - PTLD DEV COM
800 NW 6TH AVE
PORTLAND, OR 97209

OR ECSI **U000432413**
OR LUST **N/A**
OR UST
OR VCP

Relative:
Lower

Actual:
32 ft.

ECSI:

Name:	UNION STATION TERMINAL
Address:	800 NW 6TH AVE.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	5915
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	34922
Further Action:	0
Lat/Long (dms):	45 31 42.00 / -122 40 34.70
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	BD
Tax Lots:	1200, 1201, 2300, 2301
Size:	8.42 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	12/28/2017
Created Date:	07/24/2014
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	Portland Development Commission (PDC)

Narrative:

NARR ID:	5756967
NARR Code:	Data Sources
Created By:	KDANA
Created Date:	01/02/2018
Updated By:	KDANA
Updated Date:	01/02/2018
Decode for NarcdID:	Data Sources
NARR Comments:	1) NW Geotech <quot>Phase 1 Environmental Site Assessment<quot> [February 28, 2012]. 2) AMEC <quot>RI/FS Work Plan<quot> [September 15, 2014]. 3) LUST #26-90-0360. 4) LUST #26-00-0196. 5) UST Facility ID #3688.

Administrative Action:

Action ID:	9424
Region:	Not reported
Complete Date:	07/24/2014
Rank Value:	Not reported

UNION STATION - PTLD DEV COM (Continued) **U000432413**

Cleanup Flag: False
Created Date: 07/24/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 08/11/2021
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/24/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

LUST:
Name: HEATING OIL TANK
Address: 800 NW 6TH
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-00-0196
Cleanup Received Date: 02/14/2000
Cleanup Start Date: 02/14/2000
Cleanup Complete Date: Not reported
Decode for Region: North West Region

Name: UNION STATION (PORTLAND DEVELOPMENT COM)
Address: 800 NW 6TH AVENUE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-90-0360
Cleanup Received Date: 10/04/1990
Cleanup Start Date: 10/04/1990
Cleanup Complete Date: 05/20/1992
Decode for Region: North West Region

UST:
Name: UNION STATION - PTLD DEV COM
Address: 800 NW 6TH AVE
City: PORTLAND
Facility ID: 3688
Facility Telephone: (503) 223-9489
Permittee Name: W STANLEY JONES, PROPERTY MANAGEMENT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 3
Number of Tanks: 3

UNION STATION - PTLD DEV COM (Continued) **U000432413**

VCS:

Name:	UNION STATION TERMINAL
Address:	800 NW 6TH AVE.
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	5915
Facility Size:	8.42 acres
Action:	SITE INVESTIGATION
Start Date:	07/24/2014
End Date:	08/11/2021
Program:	VCP
Latitude:	45.5285
Longitude:	-122.6763

AN132 **HEATING OIL TANK** **OR LUST** **S105075926**
SW **1812 NW KEARNEY ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.434 mi.
2293 ft. **Site 3 of 3 in cluster AN**

Relative: **Higher**
Actual: **70 ft.**

LUST:

Name:	HEATING OIL TANK
Address:	1812 NW KEARNEY ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-01-6277
Cleanup Received Date:	06/19/2001
Cleanup Start Date:	06/19/2001
Cleanup Complete Date:	**12/07/2001**
Decode for Region:	**North West Region**

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133 **BONNIES HAMBURGERS** **OR LUST** **S100500545**
SW **932 NW 19TH** **N/A**
1/4-1/2 **PORTLAND, OR 97205**
0.434 mi.
2294 ft.

Relative: **Higher**
Actual: **70 ft.**

LUST:

Name:	BONNIES HAMBURGERS
Address:	932 NW 19TH
City,State,Zip:	PORTLAND, OR 97205
Region:	North Western Region
Facility ID:	26-89-0112
Cleanup Received Date:	06/15/1989
Cleanup Start Date:	06/14/1989
Cleanup Complete Date:	**06/15/1989**
Decode for Region:	**North West Region**

134
WNW
1/4-1/2
0.439 mi.
2317 ft.

HEATING OIL TANK — **OR LUST** — **S100921230**
1995 NW UPSHUR — **N/A**
PORTLAND, OR 97209

Relative:
Higher

Actual:
50 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1995 NW UPSHUR
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-94-0073
Cleanup Received Date:	04/26/1994
Cleanup Start Date:	04/21/1994
Cleanup Complete Date:	**11/28/1994**
Decode for Region:	**North West Region**

AP135
SSW
1/4-1/2
0.448 mi.
2363 ft.

HEATING OIL TANK — **OR LUST** — **S100500687**
600 NW 14TH — **N/A**
PORTLAND, OR 97209

Site 1 of 2 in cluster AP

Relative:
Higher

Actual:
55 ft.

LUST:

Name:	HEATING OIL TANK
Address:	600 NW 14TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-92-6009
Cleanup Received Date:	12/11/1992
Cleanup Start Date:	11/03/1992
Cleanup Complete Date:	**05/03/1995**
Decode for Region:	**North West Region**

136
ENE
1/4-1/2
0.450 mi.
2374 ft.

FLEET MANAGEMENT REPAIR FACILITY — **OR LUST** — **U000433400**
1850 N INTERSTATE AVE — **OR UST** — **N/A**
PORTLAND, OR 97227

Relative:
Higher

Actual:
84 ft.

LUST:

Name:	FLEET MANAGEMENT REPAIR FACILITY
Address:	1850 N INTERSTATE
City,State,Zip:	PORTLAND, OR 97227
Region:	North Western Region
Facility ID:	26-95-0298
Cleanup Received Date:	11/03/1995
Cleanup Start Date:	10/27/1995
Cleanup Complete Date:	**10/02/1996**
Decode for Region:	**North West Region**

UST:

Name:	FLEET MANAGEMENT REPAIR FACILITY
Address:	1850 N INTERSTATE AVE
City:	PORTLAND
Facility ID:	1542
Facility Telephone:	503-823-1819
Permittee Name:	Michael Roy

FLEET MANAGEMENT REPAIR FACILITY (Continued) **U000433400**

Number of Permitted Tanks: 4
Active Tanks: 4
Decommissioned Tanks: 4
Number of Tanks: 8

137
WSW
1/4-1/2
0.452 mi.
2386 ft.

HEATING OIL TANK **OR LUST** **S100500643**
1204 NW 20TH **N/A**
PORTLAND, OR 97209

Relative:
Higher

Actual:
70 ft.

LUST:

Name:	HEATING OIL TANK
Address:	1204 NW 20TH
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-92-0076
Cleanup Received Date:	03/16/1992
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**Not reported**
Decode for Region:	**North West Region**

138
South
1/4-1/2
0.463 mi.
2446 ft.

HEATING OIL TANK **OR LUST** **S111250939**
535 NW 11TH AVENUE **N/A**
PORTLAND, OR 97209

Relative:
Higher

Actual:
42 ft.

LUST:

Name:	HEATING OIL TANK
Address:	535 NW 11TH AVENUE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-03-2423
Cleanup Received Date:	11/17/2003
Cleanup Start Date:	11/19/2003
Cleanup Complete Date:	**03/03/2004**
Decode for Region:	**North West Region**

AP139
SSW
1/4-1/2
0.467 mi.
2466 ft.

HEATING OIL TANK **OR ECSI** **S121299945**
1440 NW HOYT ST **OR LUST** **N/A**
PORTLAND, OR 97209 **OR VCP**
OR UIC

Site 2 of 2 in cluster AP

Relative:
Higher

Actual:
59 ft.

ECSI:

Name:	GLISAN APARTMENTS
Address:	1440 NW HOYT ST.
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	6224
Brown ID:	0
Study Area:	False
Region ID:	Not reported
Legislatve ID:	831
Investigation:	No Further Action

HEATING OIL TANK (Continued) **S121299945**

FACA ID:	148527
Further Action:	0
Lat/Long (dms):	45 31 36.80 / -122 41 9.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	33
Qtr Section:	AD
Tax Lots:	4800, 4900, 5000, 5200
Size:	0.80 acres
NPL:	False
Orphan:	False
Updated By:	KDANA
Update Date:	11/26/2019
Created Date:	11/15/2017
Decode For RegionID:	Not reported
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121664
Haz Release ID:	388450
Qty Released:	unknown
Date Released:	unknown
Update Date:	06/12/2019
Update By:	KDANA
Substance Code:	7440-38-2
Substance Name:	ARSENIC
Substance Abbrev.:	Not reported
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	319286
Sub Alias Name:	AS
Comment ID:	305915
Release Code:	Data Sources
Release Comments:	April 2016 Environmental Services Report
Decode for Relcomcd:	Data Sources
Comment ID:	305916
Release Code:	General Comments
Release Comments:	Highest concentration in boring DP-22 (south half of site)
Decode for Relcomcd:	General Comments
Sampling Result ID:	351064
Feature Id:	0

HEATING OIL TANK (Continued) **S121299945**

Hazard Release Id: 388450
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.5-2.5 ft bgs
Start Date: 03/28/2016
End Date: 03/28/2016
Min Concentration: Not reported
Max Concentration: 26.80
Sample Comment: up to 26.8 ppm
Last Update By: KDANA
Update Date: 06/13/2019
Decode for MediumID: Soil

Substance ID.: 121983
Haz Release ID: 388451
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: ECD173
Substance Name: GASOLINE
Substance Abbrev.: Not reported
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305917
Release Code: Data Sources
Release Comments: January 2019 UST Decommissioning Report
Decode for Relcomcd: Data Sources
Comment ID: 305918
Release Code: General Comments
Release Comments: Highest concentration beneath 200-gallon gasoline UST
Decode for Relcomcd: General Comments
Sampling Result ID: 351065
Feature Id: 0
Hazard Release Id: 388451
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 7 ft bgs
Start Date: 01/17/2019
End Date: 01/17/2019
Min Concentration: Not reported

HEATING OIL TANK (Continued) **S121299945**

Max Concentration: 16300.00
Sample Comment: up to 16,300 ppm
Last Update By: KDANA
Update Date: 09/05/2019
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 388452
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 305919
Release Code: Data Sources
Release Comments: April & May 2016 Environmental Services Reports
Decode for Relcomcd: Data Sources
Comment ID: 305920
Release Code: General Comments
Release Comments: Highest concentrations in boring DP-21 (north half of site) and DP-22 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351066
Feature Id: 0
Hazard Release Id: 388452
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.5-2.5 ft bgs
Start Date: 03/28/2016
End Date: 03/28/2016
Min Concentration: Not reported
Max Concentration: 2090.00
Sample Comment: up to 2,090 ppm
Last Update By: KDANA
Update Date: 06/13/2019
Decode for MediumID: Soil
Sampling Result ID: 351067
Feature Id: 0
Hazard Release Id: 388452

HEATING OIL TANK (Continued) **S121299945**

Medium: 699
Substance Abbrev.: 0
Unit Code: 109
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 1.5-2.5 ft bgs
Start Date: 05/03/2016
End Date: 05/03/2016
Min Concentration: Not reported
Max Concentration: 8.48
Sample Comment: up to 8.48 mg/L
Last Update By: KDANA
Update Date: 06/25/2019
Decode for MediumID: Leachate

Substance ID.: 121690
Haz Release ID: 388453
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 75-01-4
Substance Name: VINYL CHLORIDE
Substance Abbrev.: Not reported
Substance Category ID: 8525
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8550
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8525
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8550
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319325
Sub Alias Name: CHLOROETHENE
Substance Alias ID: 319326
Sub Alias Name: CHLOROETHYLENE
Substance Alias ID: 319327
Sub Alias Name: ETHENE,CHLORO-
Substance Alias ID: 319328
Sub Alias Name: MONOCHLOROETHYLENE
Comment ID: 305921
Release Code: Media Contamination Footnote
Release Comments: Medium = soil vapor
Decode for Relcomcd: Media Contamination Footnote

HEATING OIL TANK (Continued) **S121299945**

Comment ID: 305922
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305923
Release Code: General Comments
Release Comments: Highest concentration in sample SV-1 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351068
Feature Id: 0
Hazard Release Id: 388453
Medium: 700
Substance Abbrev.: 0
Unit Code: 95
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-30 ft bgs
Start Date: 03/21/2016
End Date: 03/21/2016
Min Concentration: Not reported
Max Concentration: 46.90
Sample Comment: up to 46.9 ug/m3
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Other

Substance ID.: 121608
Haz Release ID: 388454
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Comment ID: 305924

HEATING OIL TANK (Continued) **S121299945**

Release Code: Media Contamination Footnote
Release Comments: Medium = soil vapor
Decode for Relcomcd: Media Contamination Footnote
Comment ID: 305925
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305926
Release Code: General Comments
Release Comments: Highest concentration in sample SV-1 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351069
Feature Id: 0
Hazard Release Id: 388454
Medium: 700
Substance Abbrev.: 0
Unit Code: 95
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0-30 ft bgs
Start Date: 03/21/2016
End Date: 03/21/2016
Min Concentration: Not reported
Max Concentration: 110.00
Sample Comment: up to 110 ug/m3
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Other

Substance ID.: 120781
Haz Release ID: 388455
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147
Sub Alias Name: PHENYLETHANE
Comment ID: 305927
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources

HEATING OIL TANK (Continued) **S121299945**

Comment ID: 305928
Release Code: General Comments
Release Comments: Highest concentration in boring DP-16 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351070
Feature Id: 0
Hazard Release Id: 388455
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 21.0-21.5 ft bgs
Start Date: 03/22/2016
End Date: 03/22/2016
Min Concentration: Not reported
Max Concentration: 168.00
Sample Comment: up to 168 ppm
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Soil

Substance ID.: 121868
Haz Release ID: 388456
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 91-20-3
Substance Name: NAPHTHALENE
Substance Abbrev.: Not reported
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8494
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317793
Sub Alias Name: MOTH BALLS
Substance Alias ID: 317794
Sub Alias Name: NAPHTHENE
Substance Alias ID: 317795
Sub Alias Name: TAR CAMPHOR
Comment ID: 305929
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305930
Release Code: General Comments
Release Comments: Highest concentrations in sample SV-6 (air) and boring DP-16 (soil)
Decode for Relcomcd: General Comments
Comment ID: 305943

HEATING OIL TANK (Continued) **S121299945**

Release Code: Media Contamination Footnote
Release Comments: Air sample = sub-slab vapor
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351071
Feature Id: 0
Hazard Release Id: 388456
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 21.0-21.5 ft bgs
Start Date: 03/22/2016
End Date: 03/22/2016
Min Concentration: Not reported
Max Concentration: 74.40
Sample Comment: up to 74.4 ppm
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Soil
Sampling Result ID: 351077
Feature Id: 0
Hazard Release Id: 388456
Medium: 697
Substance Abbrev.: 0
Unit Code: 95
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5 ft bgs
Start Date: 03/28/2016
End Date: 03/28/2016
Min Concentration: Not reported
Max Concentration: 156.00
Sample Comment: up to 156 ug/m3
Last Update By: KDANA
Update Date: 06/13/2019
Decode for MediumID: Air

Substance ID.: 121912
Haz Release ID: 388457
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 95-63-6
Substance Name: TRIMETHYLBENZENE,1,2,4-
Substance Abbrev.: Not reported
Substance Alias ID: 317959
Sub Alias Name: BENZENE,1,2,5-TRIMETHYL-
Substance Alias ID: 317960
Sub Alias Name: CUMENE,psi-
Substance Alias ID: 317961
Sub Alias Name: PSEUDOCUMENE
Substance Alias ID: 317962
Sub Alias Name: PSEUDOCUMOL

HEATING OIL TANK (Continued) **S121299945**

Substance Alias ID: 317963
Sub Alias Name: TRIMETHYLBENZENE,asym-
Comment ID: 305931
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305932
Release Code: General Comments
Release Comments: Highest concentration in boring DP-16 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351072
Feature Id: 0
Hazard Release Id: 388457
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 21.0-21.5 ft bgs
Start Date: 03/22/2016
End Date: 03/22/2016
Min Concentration: Not reported
Max Concentration: 729.00
Sample Comment: up to 729 ppm
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Soil

Substance ID.: 120878
Haz Release ID: 388458
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 108-67-8
Substance Name: TRIMETHYLBENZENE,1,3,5-
Substance Abbrev.: Not reported
Substance Alias ID: 316454
Sub Alias Name: BENZENE,1,3,5-TRIMETHYL-
Substance Alias ID: 316455
Sub Alias Name: MESITYLENE
Substance Alias ID: 316456
Sub Alias Name: TRIMENTHYLBENZENE,sym-
Substance Alias ID: 316457
Sub Alias Name: TRIMETHYLBENZOL
Comment ID: 305933
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305934
Release Code: General Comments
Release Comments: Highest concentration in boring DP-16 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351073
Feature Id: 0
Hazard Release Id: 388458

HEATING OIL TANK (Continued) **S121299945**

Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 21.0-21.5 ft bgs
Start Date: 03/22/2016
End Date: 03/22/2016
Min Concentration: Not reported
Max Concentration: 225.00
Sample Comment: up to 225 ppm
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Soil

Substance ID.: 121051
Haz Release ID: 388459
Qty Released: unknown
Date Released: unknown
Update Date: 06/12/2019
Update By: KDANA
Substance Code: 1330-20-7
Substance Name: XYLENEs
Substance Abbrev.: Not reported
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8526
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317017
Sub Alias Name: DIMETHYLBENZENEs
Substance Alias ID: 317018
Sub Alias Name: XYLOLs
Comment ID: 305935
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305936
Release Code: General Comments
Release Comments: Highest concentration in boring DP-16 (south half of site)
Decode for Relcomcd: General Comments
Sampling Result ID: 351074
Feature Id: 0
Hazard Release Id: 388459
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 21.0-21.5 ft bgs

HEATING OIL TANK (Continued) **S121299945**

Start Date: 03/22/2016
End Date: 03/22/2016
Min Concentration: Not reported
Max Concentration: 1170.00
Sample Comment: up to 1,170 ppm
Last Update By: KDANA
Update Date: 06/12/2019
Decode for MediumID: Soil

Substance ID.: 121700
Haz Release ID: 388460
Qty Released: unknown
Date Released: unknown
Update Date: 06/13/2019
Update By: KDANA
Substance Code: 75-34-3
Substance Name: DICHLOROETHANE,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8548
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8548
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319361
Sub Alias Name: ETHANE,1,1-DICHLORO-
Substance Alias ID: 319362
Sub Alias Name: ETHYLIDENE CHLORIDE
Substance Alias ID: 319363
Sub Alias Name: ETHYLIDENE DICHLORIDE
Comment ID: 305937
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305938
Release Code: General Comments
Release Comments: Highest concentration in sample SV-5 (south half of site)
Decode for Relcomcd: General Comments
Comment ID: 305939
Release Code: Media Contamination Footnote
Release Comments: Medium = sub-slab vapor
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351075
Feature Id: 0
Hazard Release Id: 388460
Medium: 697
Substance Abbrev.: 0
Unit Code: 95
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5 ft bgs
Start Date: 03/28/2016

HEATING OIL TANK (Continued) **S121299945**

End Date: 03/28/2016
Min Concentration: Not reported
Max Concentration: 737.00
Sample Comment: up to 737 ug/m3
Last Update By: KDANA
Update Date: 06/13/2019
Decode for MediumID: Air

Substance ID.: 121588
Haz Release ID: 388461
Qty Released: unknown
Date Released: unknown
Update Date: 06/13/2019
Update By: KDANA
Substance Code: 67-66-3
Substance Name: CHLOROFORM
Substance Abbrev.: Not reported
Substance Category ID: 8510
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8510
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319118
Sub Alias Name: METHANE,TRICHLORO-
Substance Alias ID: 319119
Sub Alias Name: TRICHLOROFORM
Substance Alias ID: 319120
Sub Alias Name: TRICHLOROMETHANE
Comment ID: 305940
Release Code: Data Sources
Release Comments: April 2016 Environmental Services Report
Decode for Relcomcd: Data Sources
Comment ID: 305941
Release Code: General Comments
Release Comments: Highest concentration in sample SV-6 (south half of site)
Decode for Relcomcd: General Comments
Comment ID: 305942
Release Code: Media Contamination Footnote
Release Comments: Medium = sub-slab vapor
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 351076
Feature Id: 0
Hazard Release Id: 388461
Medium: 697
Substance Abbrev.: 0
Unit Code: 95
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 0.5 ft bgs
Start Date: 03/28/2016
End Date: 03/28/2016

HEATING OIL TANK (Continued) **S121299945**

Min Concentration: Not reported
Max Concentration: 887.00
Sample Comment: up to 887 ug/m3
Last Update By: KDANA
Update Date: 06/13/2019
Decode for MediumID: Air

Substance ID.: 121982
Haz Release ID: 388477
Qty Released: unknown
Date Released: unknown
Update Date: 09/04/2019
Update By: KDANA
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 305971
Release Code: General Comments
Release Comments: Highest concentration beneath south end of HOT
Decode for Relcomcd: General Comments
Comment ID: 305972
Release Code: Data Sources
Release Comments: February 2018 HOT Decommissioning Report
Decode for Relcomcd: Data Sources
Sampling Result ID: 351096
Feature Id: 0
Hazard Release Id: 388477
Medium: 703
Substance Abbrev.: 0
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: 5.5 ft bgs
Start Date: 01/15/2018
End Date: 01/15/2018
Min Concentration: Not reported
Max Concentration: 9080.00
Sample Comment: up to 9,080 ppm
Last Update By: KDANA
Update Date: 09/04/2019
Decode for MediumID: Soil

Narrative:
NARR ID: 5757622
NARR Code: Contamination
Created By: KDANA
Created Date: 08/22/2019

HEATING OIL TANK (Continued) **S121299945**

Updated By: KDANA
Updated Date: 11/26/2019
Decode for NarcdID: Contamination
NARR Comments: (11/26/2019 KPD/VCP) A total of 65 soil samples were collected from 22 borings across the south half of the block in March 2016 as part of an Environmental Site Assessment. Gasoline and diesel were detected in a number of samples along with some high concentrations of metals, although average concentrations of metals were consistent with background levels. Six soil gas samples were also collected, finding VOCs ranging from benzene to chloroform to vinyl chloride. Sixteen additional soil samples were collected in April 2016 from seven hand-augured borings advanced through the floor of the restaurant to the north of the service station. The sampling found metals and low concentrations of PAHs. Also in April, 57 soil samples were collected from 19 borings (3 per boring) advanced through the floors of two buildings on the north half of the block, as part of a second Environmental Site Assessment. Virtually no soil contamination was detected, with the exception of some elevated concentrations of arsenic. Four soil gas samples were also collected, finding low levels of VOCs. In May 2016, 18 additional soil samples were collected from six borings (3 per boring) advanced through the floor of the northeast building. A hazardous concentration of leachable lead was detected, along with low levels of PAHs.

NARR ID: 5757520
NARR Code: Data Sources
Created By: KDANA
Created Date: 06/06/2019
Updated By: KDANA
Updated Date: 11/21/2019
Decode for NarcdID: Data Sources
NARR Comments: 1) Goodman Bros. <quot>U.S.T. Cleanup<quot> [December 14, 1990]. 2) GeoDesign <quot>Environmental Services Report<quot> [April 18, 2016]. 3) GeoDesign <quot>Supplemental Investigation Memo<quot> [May 13, 2016]. 4) GeoDesign <quot>Environmental Services Report<quot> [May 20, 2016]. 5) GeoDesign <quot>Phase I Environmental Site Assessment<quot> [July 31, 2017]. 6) GeoDesign <quot>Soil and Water Management Plan<quot> [October 10, 2017]. 7) K&S Environmental <quot>UST Decommissioning Report<quot> [January 29, 2019]. 8) HydroCon <quot>Heating Oil Tank Decommissioning & Remediation Report<quot> [February 25, 2019]. 9) GeoDesign <quot>Construction Completion Report<quot> [August 21, 2019]. 10) HOT File #26-18-0100. 11) LUST File #26-88-0012. 12) LUST File #26-90-0180. 13) UST Facility ID #1770. 14) UST Facility ID #10521.

NARR ID: 5757640
NARR Code: Hazardous Substance/Waste Types
Created By: KDANA
Created Date: 08/28/2019
Updated By: KDANA
Updated Date: 09/04/2019
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Gasoline, diesel, metals, and VOCs

NARR ID: 5757604
NARR Code: Site Location
Created By: KDANA

HEATING OIL TANK (Continued) **S121299945**

Created Date: 08/15/2019
Updated By: KDANA
Updated Date: 08/15/2019
Decode for NarcdID: Site Location
NARR Comments: The site covers most of the city block bounded by NW Hoyt Street to the north, NW Glisan Street to the south, NW 14th Avenue to the east, and NW 15th Avenue to the west.

NARR ID: 5757695
NARR Code: Media Contamination
Created By: KDANA
Created Date: 11/21/2019
Updated By: KDANA
Updated Date: 11/21/2019
Decode for NarcdID: Media Contamination
NARR Comments: Soil and soil gas

NARR ID: 5757526
NARR Code: Pathways Other Hazards
Created By: KDANA
Created Date: 06/12/2019
Updated By: KDANA
Updated Date: 11/21/2019
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soils at the site are silts grading to silty sands. Silty gravel with sand is present from about 20 ft to at least 30 ft bgs. Groundwater was encountered at 45 ft bgs. The Willamette River is about 2,900 ft NE of the site.

NARR ID: 5757621
NARR Code: Remedial Action
Created By: KDANA
Created Date: 08/22/2019
Updated By: KDANA
Updated Date: 11/26/2019
Decode for NarcdID: Remedial Action
NARR Comments: (11/26/2019 KPD/VCP) Three 1,000-gallon gasoline tanks were removed from a service station on the southeast quarter of the block in 1988, along with 20 cubic yards of PCS. A 4,000-gallon gasoline tank was decommissioned in-place at the service station. In 1990, a 3,000-gallon gasoline tank was removed from the southwest corner of the block, along with five cubic yards of PCS. No residual soil contamination was reported at either tank removal site. Two tanks were discovered during initial construction of the Glisan Apartments in January 2018: a 300-gallon waste oil tank at the former service station, and a 675-gallon heating oil tank near the center of the site. Both tanks were decommissioned by removal. About 76 gallons of heating oil and sludge were pumped from the HOT, and about 30 tons of PCS were excavated from around the HOT. No significant contamination was reported around the waste oil tank. From January through April 2018, 22,292 tons of contaminated soils were excavated and removed from the site, followed by an additional 283 tons from December 2018 through March 2019. An additional 27,000 cubic yards of soils from the northwest quarter of the block were shipped off-site as <quot>clean fill<quot>. Two additional tanks were discovered beneath the sidewalk along Hoyt Street, near the intersection with 15th Avenue, in January 2019: a 200-gallon gasoline UST and a 650-gallon

HEATING OIL TANK (Continued) **S121299945**

diesel UST. Both tanks were decommissioned by removal. About 376 gallons of water were pumped from the two tanks, and 63 tons of PCS were excavated from around the tanks.

NARR ID: 5757623
NARR Code: Site History
Created By: KDANA
Created Date: 08/22/2019
Updated By: KDANA
Updated Date: 08/28/2019
Decode for NarcdID: Site History
NARR Comments: As of 1889, the south half of the city block currently occupied by the Glisan Apartments was developed with three residences and a kindergarten. By 1901 the kindergarten building was occupied by the Portland Fire Department, and in 1913 the current building (at 1425 NW Glisan) was constructed as a fire station. A Texaco service station was constructed on the southeast quarter of the block in 1940, and a restaurant was built immediately north of the service station in the late 1940s. Restaurants began operating in the fire station building in the late 1970s, and from at least 1985 until 2006 an auto glass company operated out of the service station building. In 2007, a restaurant opened in the service station building. As of 2016, the south half of the block was occupied by three restaurants. As of 1908, the north half of the block was developed with nine <quot>residential structures<quot>. Warehouses were constructed on the northwest quarter of the block in 1914, and the northeast quarter of the block in 1931. The northwest warehouse was occupied by a storage and transfer company in 1935 and <quot>food supplier offices<quot> in 1950. The northeast warehouse was occupied by a newspaper printer and dye supplier in 1935, and a machine shop and auto repair shop occupied the southern part of the warehouse in 1950. The printer and dye supplier was replaced by a printing ink company in 1955, and by 1965 an <quot>industrial supply company<quot> occupied the entire northeast warehouse. In the early 1980s the businesses were replaced by a direct mailing service (in the NW warehouse) and a towing service (in the NE warehouse). Premier Press, a printing company, occupied both warehouses from at least 1990 through 2014. The two warehouses were vacant from 2015 onward.

NARR ID: 5757703
NARR Code: 1922
Created By: KDANA
Created Date: 11/26/2019
Updated By: KDANA
Updated Date: 11/26/2019
Decode for NarcdID: Current Site Summary Statement
NARR Comments: Assessments of the Glisan Apartments site in 2016 identified petroleum hydrocarbons, metals, and polycyclic aromatic hydrocarbons (PAHs) in the soils on the eastern half of the block. Volatile organic compounds (VOCs) were detected in soils and soil gas in the southeast quarter of the block. From January 2018 through March 2019 approximately 22,575 tons of contaminated soils were excavated from the eastern half of the block. Concurrently, about 27,000 cubic yards of clean soils were removed from the northwest quarter of the block. Four underground storage tanks were also removed from the site. The contamination is not known or suspected to have extended to groundwater.

HEATING OIL TANK (Continued) **S121299945**

Administrative Action:
Action ID: 9491
Region: Northwestern Region
Complete Date: 03/11/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9491
Region: Northwestern Region
Complete Date: 01/29/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: 02/12/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 05/24/2019
Rank Value: Not reported
Cleanup Flag: True
Created Date: 11/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: 0
Comments: Not reported

HEATING OIL TANK (Continued) **S121299945**

Action ID: 9511
Region: Northwestern Region
Complete Date: 08/21/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/21/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 11/26/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/26/2019
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 11/15/2017
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/15/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Northwestern Region
Complete Date: 04/25/2018
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/15/2017
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9425

HEATING OIL TANK (Continued) **S121299945**

Region: Northwestern Region
Complete Date: 02/12/2019
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/25/2018
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135982
Operation Status: Inactive
Common Name: J.E. Puckett Co.
Yrs of Operation: Approx. 1940 to 1985
Comments: Gasoline service station
Updated Date: 08/22/2019
Updated By: KDANA
Decode for OpstatID: Inactive
Operations SIC Id: 199398
SIC Code: 5541
Created By: KDANA
Created Date: 08/15/2019

LUST:
Name: HEATING OIL TANK
Address: 1440 NW HOYT ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-18-0100
Cleanup Received Date: 02/02/2018
Cleanup Start Date: Not reported
Cleanup Complete Date: 04/10/2019
Decode for Region: North West Region

VCS:
Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: REMOVAL
Start Date: 01/17/2019
End Date: 01/29/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: NO FURTHER STATE ACTION REQUIRED

HEATING OIL TANK (Continued) **S121299945**

Start Date: 11/26/2019
End Date: 11/26/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: VCS Waiting List
Start Date: 11/14/2017
End Date: 04/25/2018
Program: VCS
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: SITE INVESTIGATION
Start Date: 05/24/2019
End Date: 08/21/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: Insufficient information to list
Start Date: 02/12/2019
End Date: 02/12/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: REMOVAL
Start Date: 12/18/2018
End Date: 03/11/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209

HEATING OIL TANK (Continued) **S121299945**

ECS Site ID: 6224
Facility Size: 0.80 acres
Action: SITE EVALUATION
Start Date: 04/25/2018
End Date: 02/12/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

Name: GLISAN APARTMENTS
Address: 1440 NW HOYT ST.
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 6224
Facility Size: 0.80 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 05/24/2019
End Date: 05/24/2019
Program: VCP
Latitude: 45.5269
Longitude: -122.686

OR UIC:
Name: MODERA GLISAN
Address: 1440 NW HOYT STREET
City,State,Zip: PORTLAND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 15476
Facility Status: Registered & RA
Lat/Long: 45.5270 / -122.6858

AQ140 **HEATING OIL TANK** **OR LUST** **S126218879**
SSW **1640 NW IRVING ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.471 mi.
2489 ft. **Site 1 of 2 in cluster AQ**

Relative:
Higher

Actual:
68 ft.

LUST:
Name: HEATING OIL TANK
Address: 1640 NW IRVING ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-20-0266
Cleanup Received Date: 03/30/2020
Cleanup Start Date: Not reported
Cleanup Complete Date: 04/27/2020
Decode for Region: North West Region

141
NE
1/4-1/2
0.472 mi.
2494 ft.

VALVOLINE
2308 N CLARK AVE.
PORTLAND, OR 97227

OR ECSI **S111253776**
OR VCP **N/A**
OR BROWNFIELDS

Relative:
Higher

Actual:
43 ft.

ECSI:

Name:	VALVOLINE
Address:	2308 N CLARK AVE.
City,State,Zip:	PORTLAND, OR 97227
State ID Number:	3215
Brown ID:	Brownfield Site - DEQ Tech Assistance
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	2613
Further Action:	0
Lat/Long (dms):	45 32 21.80 / -122 40 35.80
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	27
Qtr Section:	CA
Tax Lots:	5000, 5700
Size:	0.66 acre
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	01/31/2012
Created Date:	12/21/2001
Decode For RegionID:	Northwest Region
Decode For BrownID:	Brownfield Site - DEQ Technical Assistance
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: Valvoline Packaging Facility

Narrative:

NARR ID:	5741924
NARR Code:	Hazardous Substance/Waste Types
Created By:	Not reported
Created Date:	12/17/2002
Updated By:	Not reported
Updated Date:	12/17/2002
Decode for NarcdID:	Hazardous Substance/Waste Types
NARR Comments:	Petroleum hydrocarbons, PAHs, metals, and VOCs.

NARR ID:	5743274
NARR Code:	Manner of Release
Created By:	JWAGGY
Created Date:	04/04/2003
Updated By:	JWAGGY
Updated Date:	04/04/2003
Decode for NarcdID:	Manner of Release

VALVOLINE (Continued) **S111253776**

NARR Comments: Spills around bulk fuel tanks.

NARR ID: 5743275
NARR Code: Media Contamination
Created By: JWAGGY
Created Date: 04/04/2003
Updated By: JWAGGY
Updated Date: 04/04/2003
Decode for NarcdID: Media Contamination
NARR Comments: Soil

NARR ID: 5743276
NARR Code: Pathways Other Hazards
Created By: JWAGGY
Created Date: 04/04/2003
Updated By: JWAGGY
Updated Date: 04/04/2003
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Exposure to surface and sub-surface soil by occupational and excavation workers.

NARR ID: 5743277
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 04/04/2003
Updated By: GWISTAR
Updated Date: 01/15/2004
Decode for NarcdID: Remedial Action
NARR Comments: (3/4/03 AC/SRP) Soil that exceeded risk based concentrations was excavated and trucked to a permitted landfill. The excavation was filled with clean soil. No further action is needed.

NARR ID: 5744495
NARR Code: Site History
Created By: GWISTAR
Created Date: 01/15/2004
Updated By: GWISTAR
Updated Date: 01/15/2004
Decode for NarcdID: Site History
NARR Comments: 1889 to 1910: Residential and livery/feed stable. 1918 to 1923: foundry.

Administrative Action:
Action ID: 9424
Region: Northwestern Region
Complete Date: 12/21/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9440

VALVOLINE (Continued) **S111253776**

Region: Northwestern Region
Complete Date: 04/04/2003
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9464
Region: Headquarters
Complete Date: 01/17/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Prospective Purchaser Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Northwestern Region
Complete Date: 04/02/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/04/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 04/02/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/04/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 134384
Operation Status: Active

VALVOLINE (Continued) **S111253776**

Common Name: Valvoline Oil Company
Yrs of Operation: 1931 - Present
Comments: motor oil blending and packaging, bulk oil distribution, waste oil blending and resale, spray blending
Updated Date: 12/21/2001
Updated By: jmw
Decode for OpstatID: Active
Operations SIC Id: 197677
SIC Code: 2992
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: VALVOLINE
Address: 2308 N CLARK AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3215
Facility Size: 0.66 acre
Action: Letter Agreement
Start Date: 12/20/2001
End Date: 04/04/2003
Program: VCP
Latitude: 45.5394
Longitude: -122.6766

Name: VALVOLINE
Address: 2308 N CLARK AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3215
Facility Size: 0.66 acre
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 04/02/2003
End Date: 04/02/2003
Program: VCP
Latitude: 45.5394
Longitude: -122.6766

Name: VALVOLINE
Address: 2308 N CLARK AVE.
City,State,Zip: PORTLAND, OR 97227
ECS Site ID: 3215
Facility Size: 0.66 acre
Action: SITE INVESTIGATION
Start Date: 01/08/2002
End Date: 04/02/2003
Program: VCP
Latitude: 45.5394
Longitude: -122.6766

OR BROWNFIELDS:
Name: VALVOLINE
Address: 2308 N CLARK AVE.
City,State,Zip: PORTLAND, OR 97227
Geolocation Id: 2613
Status: NO FURTHER STATE ACTION REQUIRED
Lat/Long: 45.5394 / -122.676

142
SW
1/4-1/2
0.476 mi.
2514 ft.

HEATING OIL TANK
829 NW 19TH AVE
PORTLAND, OR 97209

OR LUST **S117880899**
N/A

Relative:
Higher

Actual:
74 ft.

LUST:

Name:	HEATING OIL TANK
Address:	829 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-14-1731
Cleanup Received Date:	12/31/2014
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**06/08/2015**
Decode for Region:	**North West Region**

143
SSW
1/4-1/2
0.483 mi.
2549 ft.

PREMIER PRESS
510 NW 15TH
PORTLAND, OR 97209

RCRA-VSQG **1000644665**
OR LUST **ORD987195070**
OR UST

Relative:
Higher

Actual:
62 ft.

RCRA-VSQG:

Date Form Received by Agency:		20141231
Handler Name:	PREMIER PRESS	
Handler Address:		510 NW 15TH
Handler City,State,Zip:		PORTLAND, OR 97209-2204
EPA ID:		ORD987195070
Contact Name:		CORY MADEY
Contact Address:		510 NW 15TH AVENUE
Contact City,State,Zip:		PORTLAND, OR 97210
Contact Telephone:		503-224-0246
Contact Fax:		Not reported
Contact Email:		CORYM@PREMIERPRESS.COM
Contact Title:		Not reported
EPA Region:		10
Land Type:		Private
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		510 NW 15TH AVE
Mailing City,State,Zip:		PORTLAND, OR 97209
Owner Name:		PREMIER PRESS
Owner Type:		Private
Operator Name:		PREMIER PRESS
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No

PREMIER PRESS (Continued) **1000644665**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20141003
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private

PREMIER PRESS (Continued) **1000644665**

Date Became Current:	19950214
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20020329
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20030227
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20131231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20141231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PREMIER PRESS (Continued) **1000644665**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20041231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20071231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19920227
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19920401
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19940308
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported

PREMIER PRESS (Continued) **1000644665**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19970415
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19990125
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20010312
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20020329
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20041231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE

PREMIER PRESS (Continued) **1000644665**

Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20071231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20101231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20141231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private

PREMIER PRESS (Continued) **1000644665**

Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19960216
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19970415
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20000128
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PREMIER PRESS (Continued) **1000644665**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20091231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19920227
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20111231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20141231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19950214
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported

PREMIER PRESS (Continued) **1000644665**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20110228
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20131231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19920227
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19960216
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20000128
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH

PREMIER PRESS (Continued) **1000644665**

Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20010312
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19940308
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19981103
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private

PREMIER PRESS (Continued) **1000644665**

Date Became Current:	19981103
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	19990125
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20030227
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20081231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PREMIER PRESS (Continued) **1000644665**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20081231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20091231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH
Owner/Operator City,State,Zip:	PORTLAND, OR 97209
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PREMIER PRESS
Legal Status:	Private
Date Became Current:	20111231
Date Ended Current:	Not reported
Owner/Operator Address:	510 NW 15TH AVENUE
Owner/Operator City,State,Zip:	PORTLAND, OR 97210
Owner/Operator Telephone:	503-223-4984
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20141231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19920401
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

PREMIER PRESS (Continued) **1000644665**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940308
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950214
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960216
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970415
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

PREMIER PRESS (Continued) **1000644665**

Receive Date: 19981103
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990125
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000128
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010312
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020329
Handler Name: PREMIER PRESS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

PREMIER PRESS (Continued) **1000644665**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20030227
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20041231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20051231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20051231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

PREMIER PRESS (Continued) **1000644665**

Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20071231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20081231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20091231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20101231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20110228
Handler Name: PREMIER PRESS	

PREMIER PRESS (Continued) **1000644665**

Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20111231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20131231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20141231
Handler Name: PREMIER PRESS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	32311
NAICS Description:	PRINTING

NAICS Code:	323111
NAICS Description:	COMMERCIAL GRAVURE PRINTING

PREMIER PRESS (Continued) **1000644665**

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060517
Actual Return to Compliance Date:	20060823
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060626
Enforcement Identifier:	101
Date of Enforcement Action:	20060524
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORREP
Enforcement Responsible Sub-Organization:	NWR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060517
Actual Return to Compliance Date:	20060823
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060626
Enforcement Identifier:	101
Date of Enforcement Action:	20060524
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported

PREMIER PRESS (Continued) **1000644665**

Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORREP
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 19981103
Actual Return to Compliance Date: 19981124
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981115
Enforcement Identifier: 000
Date of Enforcement Action: 19981110
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OR
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORSSY
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PREMIER PRESS (Continued) **1000644665**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060517
Actual Return to Compliance Date:	20060823
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060626
Enforcement Identifier:	101
Date of Enforcement Action:	20060524
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORREP
Enforcement Responsible Sub-Organization:	NWR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060517
Actual Return to Compliance Date:	20060823
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060626
Enforcement Identifier:	101
Date of Enforcement Action:	20060524
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PREMIER PRESS (Continued) **1000644665**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORREP
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20060517
Actual Return to Compliance Date: 20060823
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060626
Enforcement Identifier: 101
Date of Enforcement Action: 20060524
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORREP
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PREMIER PRESS (Continued) **1000644665**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060517
Actual Return to Compliance Date:	20060823
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060626
Enforcement Identifier:	101
Date of Enforcement Action:	20060524
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORREP
Enforcement Responsible Sub-Organization:	NWR
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PREMIER PRESS (Continued) **1000644665**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 19981103
Actual Return to Compliance Date: 19981124
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981115
Enforcement Identifier: 000
Date of Enforcement Action: 19981110
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OR
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORSSY
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PREMIER PRESS (Continued) **1000644665**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20060517
Actual Return to Compliance Date: 20060823
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060626
Enforcement Identifier: 101
Date of Enforcement Action: 20060524
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORREP
Enforcement Responsible Sub-Organization: NWR
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP

PREMIER PRESS (Continued) **1000644665**

Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19981103
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORSSY
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 19981124
Scheduled Compliance Date: 19981115
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported

PREMIER PRESS (Continued) **1000644665**

Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20120120
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORDRL
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19981103
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORSSY
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 19981124
Scheduled Compliance Date: 19981115
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20060517
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: ORREP
Evaluation Responsible Sub-Organization: NWR
Actual Return to Compliance Date: 20060823
Scheduled Compliance Date: 20060626
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

PREMIER PRESS (Continued) **1000644665**

LUST:
Name: PREMIER PRESS
Address: 510 NW 15TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-90-0180
Cleanup Received Date: 05/18/1990
Cleanup Start Date: 08/08/1990
Cleanup Complete Date: 08/11/1990
Decode for Region: North West Region

UST:
Name: PREMIER PRESS
Address: 510 NW 15TH AVE
City: PORTLAND
Facility ID: 10521
Facility Telephone: (503) 223-4984
Permittee Name: ARNOLD L. WHEELER, PARTNER
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

AR144 **BUILDERS APPLIANCE SUPPLY** **OR LUST** **U000432373**
WNW **2012 NW VAUGHN** **OR UST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.484 mi.
2554 ft. **Site 1 of 2 in cluster AR**

Relative: Higher
Actual: 53 ft.

LUST:
Name: BUILDERS APPLIANCE SUPPLY
Address: 2012 NW VAUGHN
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-92-0342
Cleanup Received Date: 12/02/1992
Cleanup Start Date: 10/22/1992
Cleanup Complete Date: 02/05/1993
Decode for Region: North West Region

UST:
Name: BUILDERS APPLIANCE SUPPLY
Address: 2012 NW VAUGHN
City: PORTLAND
Facility ID: 10053
Facility Telephone: (503)226-4377
Permittee Name: JACK SCHULT
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

AR145
WNW
1/4-1/2
0.484 mi.
2554 ft.

HEATING OIL TANK
2012 NW VAUGHN ST
PORTLAND, OR 97209

Site 2 of 2 in cluster AR

OR LUST **S121299347**
N/A

Relative:
Higher

Actual:
53 ft.

LUST:

Name:	HEATING OIL TANK
Address:	2012 NW VAUGHN ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-17-0939
Cleanup Received Date:	08/10/2017
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**09/22/2017**
Decode for Region:	**North West Region**

AS146
WSW
1/4-1/2
0.485 mi.
2562 ft.

HEATING OIL TANK
2025 NW OVERTON ST
PORTLAND, OR 97209

Site 1 of 2 in cluster AS

OR LUST **S105463661**
N/A

Relative:
Higher

Actual:
74 ft.

LUST:

Name:	HEATING OIL TANK
Address:	2025 NW OVERTON ST
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-02-5706
Cleanup Received Date:	04/21/2002
Cleanup Start Date:	04/17/2002
Cleanup Complete Date:	**05/20/2002**
Decode for Region:	**North West Region**

147
ENE
1/4-1/2
0.487 mi.
2570 ft.

PAC WEST GLASS, INC
723 N TILLAMOOK
PORTLAND, OR 97227

OR LUST **U000433423**
OR UST **N/A**

Relative:
Higher

Actual:
57 ft.

LUST:

Name:	TUCKER, L. THOMAS, PAC/WEST GLASS, INC.
Address:	723 N TILLAMOOK
City,State,Zip:	PORTLAND, OR 97227
Region:	North Western Region
Facility ID:	26-89-0080
Cleanup Received Date:	05/03/1989
Cleanup Start Date:	05/03/1989
Cleanup Complete Date:	**Not reported**
Decode for Region:	**North West Region**

UST:

Name:	PAC WEST GLASS, INC
Address:	723 N TILLAMOOK
City:	PORTLAND
Facility ID:	7456
Facility Telephone:	(503) 288-0218
Permittee Name:	THOMAS L TUCKER, PRESIDENT

PAC WEST GLASS, INC (Continued) **U000433423**

Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 3
Number of Tanks: 3

---

148 **CONSOLIDATED FREIGHTWAYS** **OR LUST** **S125895823**
West **2050 NW RALEIGH STREET** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.488 mi.
2576 ft.

Relative: **Higher**
Actual: **65 ft.**

LUST:
Name: CONSOLIDATED FREIGHTWAYS
Address: 2050 NW RALEIGH STREET
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-19-1116
Cleanup Received Date: 11/12/2019
Cleanup Start Date: 11/08/2019
Cleanup Complete Date: 05/20/2021
Decode for Region: North West Region

AT149 **CITY OF PORTLAND WATER BUREAU** **OR LUST** **S118452349**
ENE **1900 N INTERSTATE AVENUE** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.488 mi.
2577 ft. **Site 1 of 2 in cluster AT**

Relative: **Higher**
Actual: **83 ft.**

LUST:
Name: CITY OF PORTLAND WATER BUREAU
Address: 1900 N INTERSTATE AVENUE
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-15-1541
Cleanup Received Date: 11/03/2015
Cleanup Start Date: 06/24/2015
Cleanup Complete Date: 09/08/2016
Decode for Region: North West Region

AT150 **PORTLAND, CITY OF WATER BUREAU** **OR LUST** **S118452528**
ENE **1900 N INTERSTATE AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97227**
0.488 mi.
2577 ft. **Site 2 of 2 in cluster AT**

Relative: **Higher**
Actual: **83 ft.**

LUST:
Name: PORTLAND, CITY OF WATER BUREAU
Address: 1900 N INTERSTATE AVE
City,State,Zip: PORTLAND, OR 97227
Region: North Western Region
Facility ID: 26-92-0123
Cleanup Received Date: 04/30/1992
Cleanup Start Date: 04/27/1992
Cleanup Complete Date: 03/04/1997
Decode for Region: North West Region

151
WNW
1/4-1/2
0.489 mi.
2582 ft.

IRON MOUNTAIN
2116 NW 20TH AVE
PORTLAND, WA 97209

WA SWF/LF **S118401790**
N/A

Relative:
Higher

Actual:
43 ft.

SWF/LF:

Name:	IRON MOUNTAIN
Address:	2116 NW 20TH AVE
City,State,Zip:	PORTLAND, WA 97209
Facility ID:	1704
Region:	STATE
Permit Status:	Recycle Survey
Contact Organization:	Iron Mountain
Contact Address1:	2116 Nw 20th Ave
Contact Address2:	Not reported
Contact City:	Portland
Contact State:	OR
Contact Postal:	97209
Contact EMail:	john.olivares@ironmountain.com
Contact Phone:	(503) 223-9770
Contact Phone Ext:	Not reported
Permit No:	Not reported
Phone:	(503) 223-9770 x247
Operator Name:	Not reported
Operator Organization:	Iron Mountain
Operator EMail:	Not reported
Operator Title:	Not reported
Recycle Survey Code:	7178
Ownership:	Not reported
Facility Type:	Recycling (non-regulated)
Contact Name:	John Olivares
Contact Title:	General Manager
Year Closed:	Not reported
Open to Public Flag:	No
Website:	Not reported
Operational Status:	Operating
Recycle Survey Required:	Yes
Latitude:	Not reported
Longitude:	Not reported

152
NE
1/4-1/2
0.490 mi.
2585 ft.

TECHNI-GLASS
2221 N ALBINA
PORTLAND, OR 97227

OR LUST **S100676163**
N/A

Relative:
Higher

Actual:
55 ft.

LUST:

Name:	TECHNI-GLASS
Address:	2221 N ALBINA
City,State,Zip:	PORTLAND, OR 97227
Region:	North Western Region
Facility ID:	26-92-0349
Cleanup Received Date:	12/04/1992
Cleanup Start Date:	12/03/1992
Cleanup Complete Date:	**07/20/1994**
Decode for Region:	**North West Region**

153
SE
1/4-1/2
0.492 mi.
2596 ft.

RIVER DISTRICT BLOCK U
BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
PORTLAND, OR 97209

OR ECSI
OR ENG CONTROLS
OR INST CONTROL
OR VCP

S109051770
N/A

Relative:
Lower

Actual:
35 ft.

ECSI:

Name:	RIVER DISTRICT BLOCK U
Address:	BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip:	PORTLAND, OR 97209
State ID Number:	3102
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	Suspect
FACA ID:	41277
Further Action:	0
Lat/Long (dms):	45 31 39.70 / -122 40 37.20
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	1.00
Range Zone:	E
Section Coord:	34
Qtr Section:	Not reported
Tax Lots:	2400, lots 1-8
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	SRAPP
Update Date:	03/12/2014
Created Date:	07/06/2001
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Alias Name: River District Parcel 5
Alias Name: Portland Development Commission (PDC)

Hazardous Release:

Substance ID.:	121664
Haz Release ID:	379797
Qty Released:	Not reported
Date Released:	Not reported
Update Date:	06/07/2001
Update By:	Not reported
Substance Code:	7440-38-2
Substance Name:	ARSENIC
Substance Abbrev.:	Not reported
Substance Category ID:	8439
Substance Category:	Inorganics
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8439

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319286
Sub Alias Name: AS
Sampling Result ID: 338508
Feature Id: Not reported
Hazard Release Id: 379797
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 3 - 4' soil - 39.2 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 379798
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Sampling Result ID: 338509
Feature Id: Not reported
Hazard Release Id: 379798
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000

RIVER DISTRICT BLOCK U (Continued) **S109051770**

End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 0-4' soil, 610 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil
Sampling Result ID: 338510
Feature Id: Not reported
Hazard Release Id: 379798
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 3-4' soil, 599 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121374
Haz Release ID: 379799
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 50-32-8
Substance Name: BENZO(a)PYRENE
Substance Abbrev.: Not reported
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8476
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318559
Sub Alias Name: B(a)P
Substance Alias ID: 318560
Sub Alias Name: BENZOPYRENE,3,4-
Substance Alias ID: 318561
Sub Alias Name: BENZPYRENE,3,4-
Substance Alias ID: 318562
Sub Alias Name: BP
Sampling Result ID: 338511
Feature Id: Not reported
Hazard Release Id: 379799
Medium: 703

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1-2' soil, 6.8 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121462
Haz Release ID: 379800
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 56-55-3
Substance Name: BENZO(a)ANTHRACENE
Substance Abbrev.: Not reported
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8475
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318790
Sub Alias Name: BENZ(a)ANTHRACENE
Substance Alias ID: 318791
Sub Alias Name: BENZANTHRACENE,1,2-
Substance Alias ID: 318792
Sub Alias Name: BENZANTHRENE
Substance Alias ID: 318793
Sub Alias Name: BENZOANTHRACENE
Substance Alias ID: 318794
Sub Alias Name: BENZPHENANTHRENE,2,3-
Substance Alias ID: 318795
Sub Alias Name: NAPHTHANTHRACENE
Substance Alias ID: 318796
Sub Alias Name: TETRAPHENE
Sampling Result ID: 338512
Feature Id: Not reported
Hazard Release Id: 379800
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1-2' soil, 7.6 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121192
Haz Release ID: 379801
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 205-99-2
Substance Name: BENZO(b)FLUORANTHENE
Substance Abbrev.: Not reported
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8477
Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317390
Sub Alias Name: B(b)F
Substance Alias ID: 317391
Sub Alias Name: BENZ(e)ACEPHENANTHRYLENE
Substance Alias ID: 317392
Sub Alias Name: BENZFLUORANTHENE,3,4-
Substance Alias ID: 317393
Sub Alias Name: BENZOFLUORANTHENE,2,3-
Substance Alias ID: 317394
Sub Alias Name: BENZOFLUORANTHENE,3,4-
Sampling Result ID: 338513
Feature Id: Not reported
Hazard Release Id: 379801
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1-2' soil, 7.2 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Substance ID.: 121982
Haz Release ID: 379802
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: ECD169
Substance Name: DIESEL - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 338514
Feature Id: Not reported
Hazard Release Id: 379802
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 3-4' soil, 280 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121983
Haz Release ID: 379803
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: ECD173
Substance Name: GASOLINE
Substance Abbrev.: Not reported
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8530
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Sampling Result ID: 338515
Feature Id: Not reported
Hazard Release Id: 379803
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 08/05/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 14-16' soil, 1.13 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

Substance ID.: 121989
Haz Release ID: 379804
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 338516
Feature Id: Not reported
Hazard Release Id: 379804
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 3-4' soil, 700 ppm
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Soil

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Substance ID.: 120781
Haz Release ID: 379805
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 100-41-4
Substance Name: ETHYLBENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8515
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316146
Sub Alias Name: ETHYLBENZOL
Substance Alias ID: 316147
Sub Alias Name: PHENYLETHANE
Sampling Result ID: 338517
Feature Id: Not reported
Hazard Release Id: 379805
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 11.9 ppb
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Groundwater

Substance ID.: 121943
Haz Release ID: 379806
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 98-82-8
Substance Name: CUMENE
Substance Abbrev.: Not reported
Substance Alias ID: 318072
Sub Alias Name: BENZENE,(1-METHYLETHYL)-
Substance Alias ID: 318073
Sub Alias Name: CUMOL
Substance Alias ID: 318074
Sub Alias Name: ISOPROPYLBENZENE

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Substance Alias ID: 318075
Sub Alias Name: PHENYLPROPANE,2-
Sampling Result ID: 338518
Feature Id: Not reported
Hazard Release Id: 379806
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 5.07 ppb
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Groundwater

Substance ID.: 121956
Haz Release ID: 379807
Qty Released: Not reported
Date Released: Not reported
Update Date: 06/07/2001
Update By: Not reported
Substance Code: 99-87-6
Substance Name: ISOPROPYLTOLUENE,p-
Substance Abbrev.: Not reported
Substance Alias ID: 318126
Sub Alias Name: BENZENE,1-ISOPROPYL-4-METHYL-
Substance Alias ID: 318127
Sub Alias Name: CUMENE,p-METHYL-
Substance Alias ID: 318128
Sub Alias Name: CYMENE
Substance Alias ID: 318129
Sub Alias Name: CYMENE,p-
Substance Alias ID: 318130
Sub Alias Name: CYMOL
Substance Alias ID: 318131
Sub Alias Name: DOLCYMENE
Substance Alias ID: 318132
Sub Alias Name: ISOPROPYL-1-METHYLBENZENE,4-
Substance Alias ID: 318133
Sub Alias Name: PARACYMENE
Sampling Result ID: 338519
Feature Id: Not reported
Hazard Release Id: 379807
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/24/2000

RIVER DISTRICT BLOCK U (Continued) **S109051770**

End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1.61 ppb
Last Update By: jmw
Update Date: 07/06/2001
Decode for MediumID: Groundwater

Narrative:

NARR ID: 5741512
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 11/26/2003
Decode for NarcdID: Contamination
NARR Comments: (7/5/01 MTP/VCP) A Phase I, Phase II with sampling, and pre-Remedial (Pre-RI) investigations have been conducted at the site. The Phase I report provides a comprehensive survey of historic site activities and identified former service stations, and possible USTs associated with the stations and/or the hotels as possible contaminant sources. Soil and groundwater sampling conducted in the Phase II and Pre-RI investigations showed that imported fill (PAHs, metals) and the service stations (VOCs, PAHs) were contaminant sources at the site. (4/1/02, MTP) Additional investigation conducted in March 2002 further refined the extent of contamination. VOCs were not detected at levels of concern. A number of PAHs, lead and arsenic, gasoline and heavy oil have been identified as contaminants of concern, and will be evaluated in the proposed risk assessment. Based on no anticipated beneficial use of shallow groundwater, and because deep groundwater is not expected to be impacted, the groundwater pathway does not appear to be complete.

NARR ID: 5741513
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: MGREENB
Updated Date: 11/04/2009
Decode for NarcdID: Data Sources
NARR Comments: 1) Phase I Environmental Report, AGRA, July 1999. 2) Phase II Enviromental Report, AGRA, March 2000. 3) Preliminary RI Report, Hart-Crowser, March 2001. 4) Remedial Investigation Report, Hart Crowser, January 2003. 5) Pre-Construction Investigation, Hart Crowser, July 2008. 6) Site Closure Report Hart Crowser, June 2009.

NARR ID: 5741514
NARR Code: General Site Description
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: General Site Description
NARR Comments: The site has been a parking lot since 1963. Portions of the site were developed as early as 1889 (Union Fuel Company coal shed). A number of service stations were present at the site from the mid-1920s to the 1960s. Boyd’s Hotel (1930s - 1960) and the Olympic Hotel (1930s - 1942) also operated at the site. The property was acquired from the

RIVER DISTRICT BLOCK U (Continued) **S109051770**

United States Postal Service in 1990.

NARR ID: 5741515
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: MGREENB
Updated Date: 11/04/2009
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum products, including gas and oil from service stations; imported fill appears to also be a source of petroleum-related compounds and metals. Elevated lead was observed in a debris layer described as the <quot>burn layer<quot>. Elevated arsenic was observed in backfill soils greater than 4' below grade.

NARR ID: 5741516
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: A city block in Portland bounded by NW Broadway Avenue on the west, NW 6th Avenue on the east, NW Irving Street on the north, and NW Hoyt Street on the south.

NARR ID: 5741517
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Surface and subsurface releases to soil through spills and possibly underground storage tanks. Imported fill also appears to be a source of petroleum-related compounds and metals.

NARR ID: 5741518
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 05/13/2013
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The primary exposure pathway appears to be direct contact, incidental ingestion/inhalation of occupational site workers to polynuclear aromatic hydrocarbons (PAHs) and metals including arsenic and lead. Direct exposure of site utility/trench workers to contaminated surface and subsurface soil may be possible. Relatively low concentrations of volatile organic compounds (VOCs) in groundwater do not appear to pose a threat to the Willamette River, but are present at concentrations above EPA Region 9 Preliminary Remediation Goals (PRGs) for tap water. There are no known beneficial uses of groundwater in the locality of the facility.

NARR ID: 5741519
NARR Code: Remedial Action

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Created By: Not reported
Created Date: 12/17/2002
Updated By: RWILLIA
Updated Date: 10/18/2016
Decode for NarcdID: Remedial Action
NARR Comments: (7/5/01 MTP/VCP) PDC completed a Pre-RI report in March 2001, and joined DEQ's Voluntary Cleanup Program for review of site reports and determination of the <quot>no further action<quot> status at the site. PDC has indicated that site characterization is complete and that a limited soil removal and/or capping of impacted soil would be protective of human health and the environment. DEQ began review of the site documents in June 2001 and is preparing comments. (4/1/03 MTP/VCP) DEQ determined that further site characterization was required, and presented a scope of work for additional field investigation in a memorandum dated July 19, 2001. Additional investigation was conducted in March 10, 2002, consisting of advancing 11 direct-push borings to obtain soil and groundwater samples. DEQ reviewed and approved the resulting RI report. PDC is now proceeding with a risk assessment. (3/14/05 MTP) Due to limited funding, PDC is not conducting work on Parcel U, but has completed additional investigation on the adjacent site, block R (ECSI #3103). (Jan-Feb, 2009) Burn layer and petroleum hydrocarbon contaminated soils were excavated and disposed of off-site. A small gasoline UST was discovered during excavation but was closed out under the ICP program pathway rather than Tanks referral. (November 2009) E&ES filed with the County. Site was issued a Conditional NFA by the DEQ. (August 2016 RKW) Multnomah County is planning to develop a new building on the east portion of the site; it will be the Multnomah County Health Department Headquarters. Ground breaking is expected in fall 2016. (October 2016 RKW) Soil and groundwater prescreening work revealed only minor arsenic contamination in both soil and groundwater.

NARR ID: 5751817
NARR Code: Institutional Control
Created By: MGREENB
Created Date: 11/04/2009
Updated By: MGREENB
Updated Date: 11/04/2009
Decode for NarcdID: Institutional Control
NARR Comments: 11/02/2009 - an Easement and Equitable Servitude was filed with Multnomah County (document # 2009-152667). This E&ES requires special management of soils greater than 4' below grade at the site (including notification to DEQ of disturbance of such). An Updated CMMP was completed and referenced in the E&ES for handling of such soils.

NARR ID: 5758156
NARR Code: 1922
Created By: RHOOD
Created Date: 05/20/2021
Updated By: RHOOD
Updated Date: 05/20/2021
Decode for NarcdID: Current Site Summary Statement
NARR Comments: They are supposed to be preparing a CMMP. Have not had contact with RP for some time. -RAH

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Site Control:
Site Control #: 568
Control Number: 3
Begin Date: 11/02/2009
End Date: Not reported
Frequency Of Review: 36
Last Reviewed By: S Rapp, DEQ
Last Reviewed Date: 05/20/2013
Last Update By: GWISTAR
Last Updated Date: 05/20/2015
Site Comment: Easement and Equitable Servitude restricting soil disturbance greater than 4 feet below grade - must coordinate with DEQ if such disturbance is anticipated. [5/20/13] Redevelopment completed following CNFA in 2009. Site work reviewed and was in accordance with deed restrictions and CNFA requirements.

Site Control #: 897
Control Number: 20
Begin Date: 10/02/2009
End Date: Not reported
Frequency Of Review: 36
Last Reviewed By: S. Rapp, DEQ
Last Reviewed Date: 05/20/2013
Last Update By: GWISTAR
Last Updated Date: 05/20/2015
Site Comment: Soil disturbance at depths greater than 4 feet prohibited, unless DEQ's advance approval is obtained.

Administrative Action:
Action ID: 9435
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 07/05/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Action ID: 9449
Region: Northwestern Region
Complete Date: 05/10/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/10/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9433
Region: Northwestern Region
Complete Date: 11/03/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/28/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: 0
Comments: Not reported

Action ID: 9409
Region: 0
Complete Date: 01/30/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/11/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Beneficial Water Use Assessment
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 11/03/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9434

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: 0
Complete Date: 05/21/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/14/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9466
Region: Northwestern Region
Complete Date: 05/20/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/20/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: Not reported

Action ID: 9519
Region: Northwestern Region

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Complete Date: 06/21/2016
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/25/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/21/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 134293
Operation Status: Active
Common Name: PDC
Yrs of Operation: Not reported
Comments: Active - parking lot.
Updated Date: 07/06/2001
Updated By: jmw
Decode for OpstatID: Active

Enginering Control:
Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 897
Site Id: 3102
Control Sequence #: 20
Begin Date: 10/02/2009
End Date: Not reported
Frequency Of Review: 36
Last Reviewed By: S. Rapp, DEQ
Last Review Date: 05/20/2013
Last Updated By: GWISTAR
Last Updated Date: 05/20/2015
Group Sequence #: 5
Control Code: CLPS
Control Description: Contamination left in place, Soil
FK Type Code: 2
Group Code: CIP
Group Description: Contamination Contained in Place
Type Code: E

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Type Description: Engineering
Comments: Soil disturbance at depths greater than 4 feet prohibited, unless DEQ's advance approval is obtained.

Institutional Control:
Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
Site Control Sequence #: 568
Site Id: 3102
Control Sequence #: 3
Begin Date: 11/02/2009
End Date: Not reported
Frequency Of Review: 36
Last Reviewed By: S Rapp, DEQ
Last Review Date: 05/20/2013
Last Updated By: GWISTAR
Last Updated Date: 05/20/2015
Group Sequence #: 2
Control Code: EES
Control Description: Easement Equitable Servitude
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Easement and Equitable Servitude restricting soil disturbance greater than 4 feet below grade - must coordinate with DEQ if such disturbance is anticipated. [5/20/13] Redevelopment completed following CNFA in 2009. Site work reviewed and was in accordance with deed restrictions and CNFA requirements.

VCS:
Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: Independent Cleanup Program
Start Date: 01/25/2001
End Date: Not reported
Program: ICP
Latitude: 45.5277
Longitude: -122.677

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: VCS Waiting List
Start Date: 01/22/2016
End Date: 06/21/2016
Program: VCS
Latitude: 45.5277
Longitude: -122.677

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: INDEPENDENT CLEANUP
Start Date: 02/28/2008
End Date: 11/03/2009
Program: ICP
Latitude: 45.5277
Longitude: -122.677

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: Institutional Control
Start Date: 11/03/2009
End Date: Not reported
Program: ICP
Latitude: 45.5277
Longitude: -122.677

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: No Further Action (Conditional)
Start Date: 11/03/2009
End Date: 11/03/2009
Program: ICP
Latitude: 45.5277
Longitude: -122.677

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: Insufficient information to list
Start Date: 05/10/2007
End Date: 05/10/2007
Program: ICP
Latitude: 45.5277
Longitude: -122.677

Name: RIVER DISTRICT BLOCK U
Address: BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip: PORTLAND, OR 97209
ECS Site ID: 3102
Facility Size: Not reported
Action: RISK ASSESSMENT
Start Date: 04/01/2003
End Date: Not reported
Program: ICP

RIVER DISTRICT BLOCK U (Continued) **S109051770**

Latitude:	45.5277
Longitude:	-122.677
Name:	RIVER DISTRICT BLOCK U
Address:	BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	3102
Facility Size:	Not reported
Action:	Independent Cleanup Program
Start Date:	06/21/2016
End Date:	Not reported
Program:	ICP
Latitude:	45.5277
Longitude:	-122.677
Name:	RIVER DISTRICT BLOCK U
Address:	BLOCK BOUNDED BY NW 6TH/BROADWAY/HOYT/IRVING
City,State,Zip:	PORTLAND, OR 97209
ECS Site ID:	3102
Facility Size:	Not reported
Action:	Periodic Review
Start Date:	05/20/2013
End Date:	05/20/2013
Program:	ICP
Latitude:	45.5277
Longitude:	-122.677

AU154 **HEATING OIL TANK** **OR LUST** **S120414167**
SW **732 NW 19TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.493 mi.
2603 ft. **Site 1 of 2 in cluster AU**

Relative: LUST:
Higher

Name:	HEATING OIL TANK
Address:	732 NW 19TH AVE
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-16-1366
Cleanup Received Date:	10/12/2016
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**06/27/2017**
Decode for Region:	**North West Region**

Actual:
77 ft.

AS155 **HEATING OIL TANK** **OR LUST** **S106116725**
WSW **2034 NW OVERTON** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.494 mi.
2607 ft. **Site 2 of 2 in cluster AS**

Relative: LUST:
Higher

Name:	HEATING OIL TANK
Address:	2034 NW OVERTON
City,State,Zip:	PORTLAND, OR 97209
Region:	North Western Region
Facility ID:	26-02-6043

Actual:
75 ft.

HEATING OIL TANK (Continued) **S106116725**

Cleanup Received Date: 06/03/2002
Cleanup Start Date: 06/03/2002
Cleanup Complete Date: 06/27/2002
Decode for Region: North West Region

AU156 **C.G. CONSTRUCTION** **OR LUST** **S114397573**
SW **1801 NW IRVING ST** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.495 mi.
2616 ft. **Site 2 of 2 in cluster AU**

Relative: LUST:
Higher
Actual: Name: C.G. CONSTRUCTION
76 ft. Address: 1801 NW IRVING ST
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-13-1163
Cleanup Received Date: 08/28/2013
Cleanup Start Date: 08/20/2013
Cleanup Complete Date: Not reported
Decode for Region: North West Region

AQ157 **HEATING OIL TANK** **OR LUST** **S113231000**
SSW **617 NW 17TH AVE** **N/A**
1/4-1/2 **PORTLAND, OR 97209**
0.499 mi.
2633 ft. **Site 2 of 2 in cluster AQ**

Relative: LUST:
Higher
Actual: Name: HEATING OIL TANK
73 ft. Address: 617 NW 17TH AVE
City,State,Zip: PORTLAND, OR 97209
Region: North Western Region
Facility ID: 26-12-1545
Cleanup Received Date: 12/13/2012
Cleanup Start Date: Not reported
Cleanup Complete Date: 09/30/2013
Decode for Region: North West Region

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158 **PORTLAND GAS CO** **EDR MGP** **1008408801**
South **NW DAVIS STREET** **N/A**
1/2-1 **PORTLAND, OR 97209**
0.668 mi.
3529 ft.

Relative: Manufactured Gas Plants:
Higher
No additional information available
Actual:
62 ft.

159
SE
1/2-1
0.720 mi.
3800 ft.

PORTLAND GAS MANUFACTURING SITE
NW EVERETT,GLISAN,2ND, WILLAMETTE RIVER
PORTLAND, OR 97209

EDR MGP **1008408795**
N/A

Relative:
Lower

Actual:
34 ft.

Manufactured Gas Plants:

Alternate Name:PORTLAND GAS AND COKE CO; PORTLAND GAS LIGHT CO. No additional information available

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160
SE
1/2-1
0.795 mi.
4200 ft.

PORTLAND GAS CO
1ST ST N,EVERETT,FRONT AND FLANDERS
PORTLAND, OR 97209

EDR MGP **1008408796**
N/A

Relative:
Lower

Actual:
34 ft.

Manufactured Gas Plants:

No additional information available

Count: 18 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PORTLAND	S104820027	HEATING OIL TANK	2204 & 06 NE 9TH AVE	97212	OR LUST
PORTLAND	S110072106	TRI-MET SOUTH CORRIDOR EXTENSION	ADJACENT TO I-205 FROM NE GLIS		OR ECSI, OR VCP
PORTLAND	S125154560	BLOCK 25	BLOCK BOUNDED BY NW GLISAN/FLA	97209	OR ECSI, OR VCP
PORTLAND	S108247012	PARK BLOCK #5	800 BLOCK SW PARK AVE	97205	OR LUST
PORTLAND	S107466116	HEATING OIL TANK	35807 NE GLISAN ST	97232	OR LUST
PORTLAND	S105556454	KANDELL KNITTING MILLS	4920 N INTERSTATE	97217	OR LUST
PORTLAND	S106475341	HEATING OIL TANK	7633 N INTERSTATE	97217	OR LUST
PORTLAND	S106475245	HEATING OIL TANK	8021 N INTERSTATE	97217	OR LUST
PORTLAND	S108987292	GREYHOUND TANKS	NW IRVING ST BTWN 5TH & 6TH AV	97209	OR LUST
PORTLAND	S106497099	COLUMBIA SLOUGH	31.5 MILES OF WATERWAY OVER AN		OR ECSI, OR CRL, OR ENG CONTRC
PORTLAND	S107421141	EAST SIDE CSO	NEAR SE 18TH & MCLOUGHLIN TO N		OR ECSI, OR VCP
PORTLAND	S122528052	HEATING OIL TANK	NEC/ RALEIGH & 21ST AVE (BLOCK	97209	OR LUST
PORTLAND	S106497104	V.A.- COLUMBIA SOUTH SHORE WELLFIE	N OF COLUMBIA/SANDY BLVDS. BET		OR ECSI
PORTLAND	S126298413	WILLAMETTE RIVER DOWNTOWN REACH	RIVER MILE (RM) 11.8 TO RM 16.		OR ECSI
PORTLAND	S125687601	ODOT - RIVER STREET (PORTLAND)	N. RIVER STREET	97227	OR ECSI
PORTLAND	S122879584	BLOCK 294 WEST	2151 NW SAVIER STREET	97210	OR ECSI
PORTLAND	S106778143	WILLAMETTE RIVER WESTSIDE CSO CONS	TAYLORS FERRY RD. N ALONG NW F		OR ECSI, OR VCP
PORTLAND	1026004737	WILLAMETTE SEDIMENT SAMPLING PROJE	WILLAMETTE RIVER		SEMS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/10/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 12/30/2021
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 03/30/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 01/21/2022
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82
Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 12/30/2021
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 03/30/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 12/30/2021
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 03/30/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCS: Voluntary Cleanup Program Sites
Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 01/05/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/09/2022
Number of Days to Update: 6
Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects
Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/10/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 82
Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

Local Lists of Hazardous waste / Contaminated Sites

PFAS: PFAS Site Contamination Listing
Site locations where pfas contamination has been detected.

Date of Government Version: 01/05/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 13
Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

AQUEOUS FOAM: AFFF Contamination Site Listing
Site locations with aqueous film-forming foam use and environmental impact.

Date of Government Version: 02/11/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 03/23/2022
Number of Days to Update: 23

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Biennially

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Annually

UIC: Underground Injection Control Program Database

DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 10/11/2021
Date Data Arrived at EDR: 11/04/2021
Date Made Active in Reports: 12/06/2021
Number of Days to Update: 32

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BLOCK 24 - FORMER HOYT STREET RAILYARD
NW 12TH AVENUE AND NW QUIMBY STREET
PORTLAND, OR 97209

TARGET PROPERTY COORDINATES

Latitude (North):	45.534094 - 45ˆ 32’ 2.74’’
Longitude (West):	122.683103 - 122ˆ 40’ 59.17’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	524743.9
UTM Y (Meters):	5042115.5
Elevation:	36 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14878142 PORTLAND, OR
Version Date:	2020

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

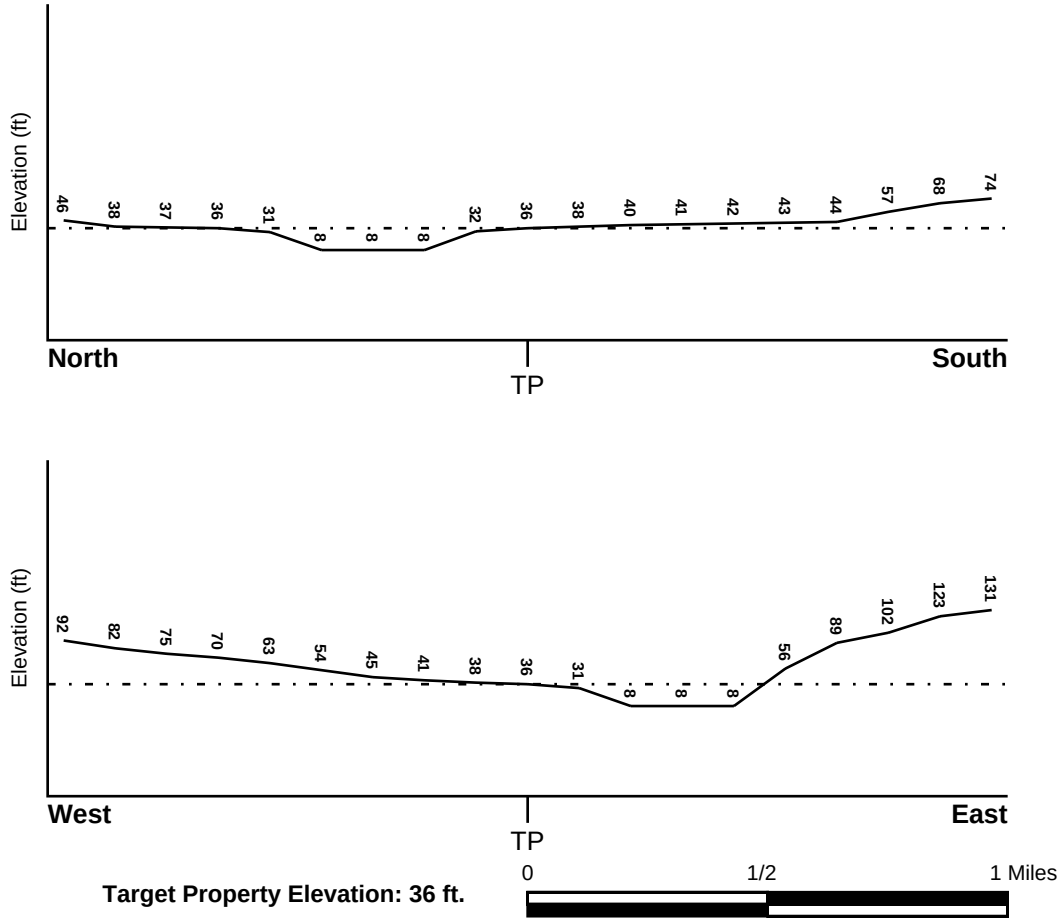
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 36 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
4101830091E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
4101830087E	FEMA FIRM Flood data
4101830035D	FEMA Q3 Flood data
4101830093E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PORTLAND	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

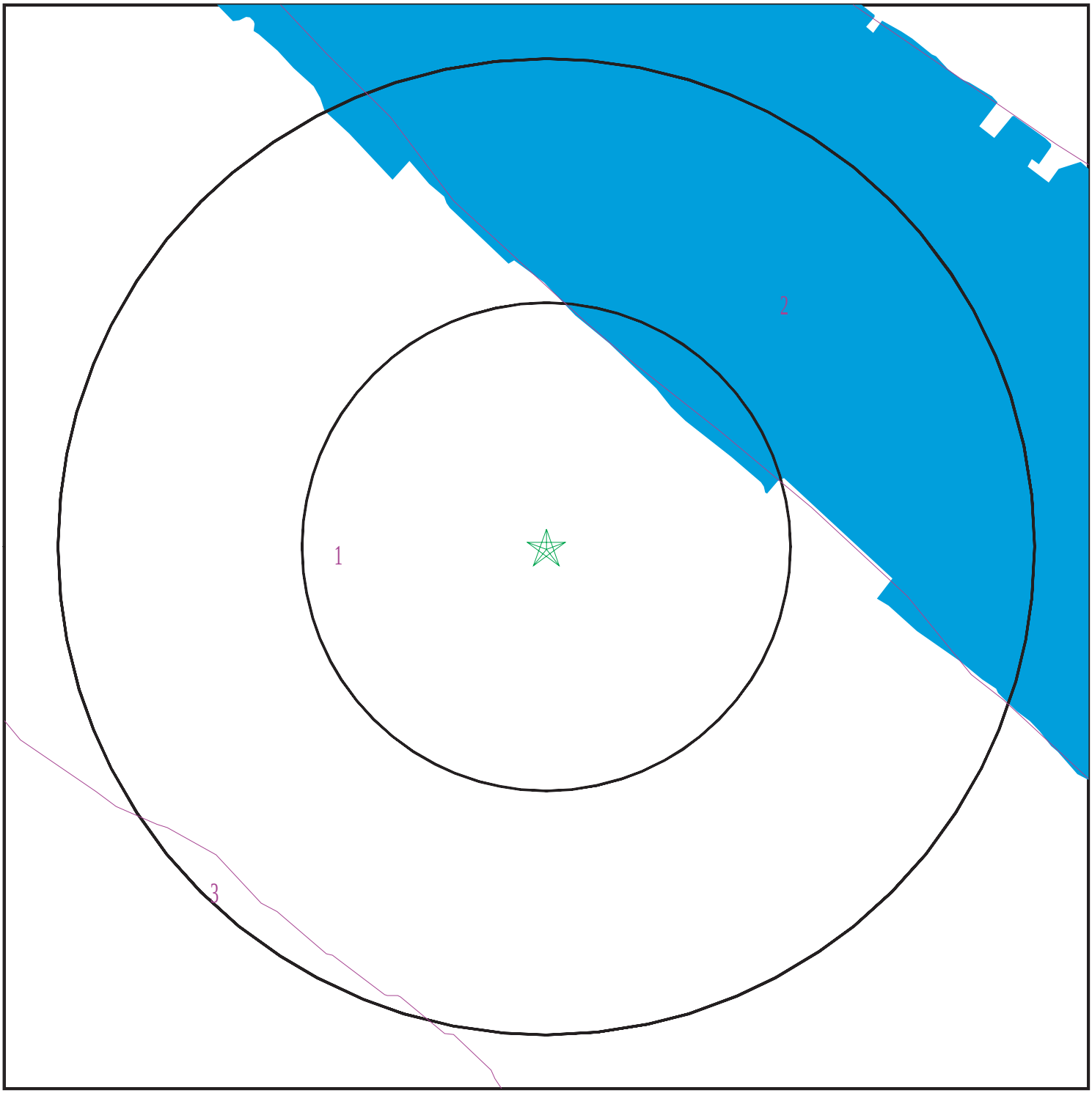
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6942616.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Block 24 - Former Hoyt Street Railyard	CLIENT:	NV5
ADDRESS:	NW 12th Avenue and NW Quimby Street Portland OR 97209	CONTACT:	Connor Ellis
LAT/LONG:	45.534094 / 122.683103	INQUIRY #:	6942616.2s
		DATE:	April 15, 2022 1:17 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	0.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OR4191953	1/2 - 1 Mile SSE

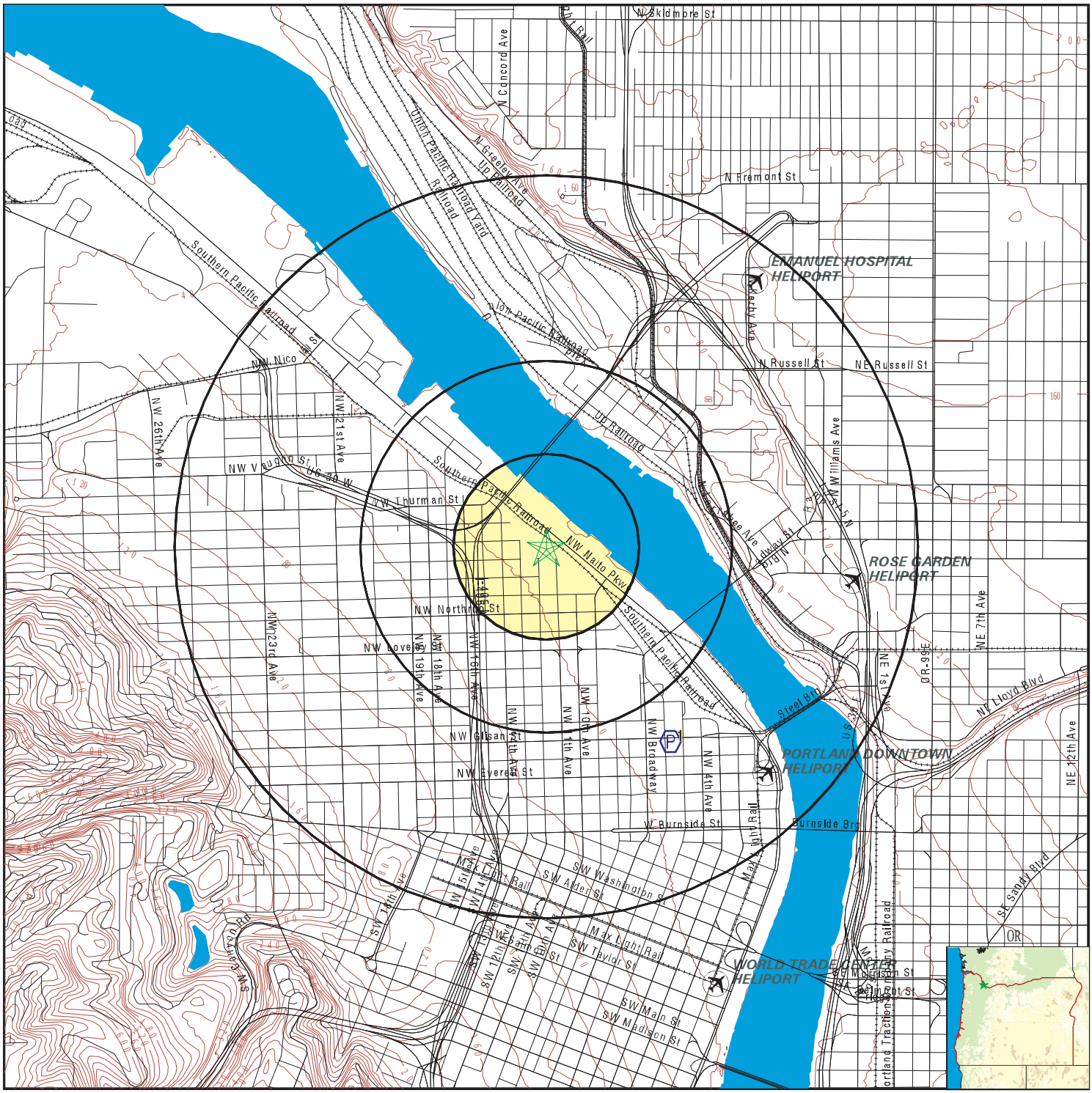
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6942616.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	Block 24 - Former Hoyt Street Railyard	CLIENT:	NV5
ADDRESS:	NW 12th Avenue and NW Quimby Street Portland OR 97209	CONTACT:	Connor Ellis
		INQUIRY #:	6942616.2s
LAT/LONG:	45.534094 / 122.683103	DATE:	April 15, 2022 1:17 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE
1/2 - 1 Mile
Higher | **FRDS PWS** | **OR4191953**

Epa region:	10	State:	OR
Pwsid:	OR4191953	Pwsname:	SKYLINE ELEMENTARY SD 1J
Cityserved:	Not Reported	Stateserved:	OR
Zipserved:	Not Reported	Fipscounty:	41051
Status:	Active	Retpopsrvd:	250
Pwssvcconn:	3	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Local_Govt
Contact:	WAGNER, HERBERT	Contactorgname:	WAGNER, HERBERT
Contactphone:	503-916-2000	Contactaddress1:	501 N DIXON ST
Contactaddress2:	Not Reported	Contactcity:	PORTLAND
Contactstate:	OR	Contactzip:	97227
Pwsactivitycode:	A		

PWS ID:	OR4191953	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	SKYLINE ELEMENTARY SD 1J
PWS type code:	NTNC	Retail population served:	250
Contact:	WAGNER, HERBERT	Contact address:	501 N DIXON ST
Contact address:	PORTLAND	Contact city:	OR
Contact state:	97	Contact zip:	503-916-20
Contact telephone:	Not Reported		

PWS ID:	OR4191953	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000230	System name:	SKYLINE ELEMENTARY, SD 1J
System address:	PO BOX 3107	System city:	PORTLAND
System state:	OR	System zip:	97208

Population served:	101 - 500 Persons	Treatment:	Untreated

Latitude:	453136	Longitude:	1224030

Violation id:	1563799	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1005	Contamination Name:	Arsenic
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	332	Rule name:	Arsenic
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1578799	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1074	Contamination Name:	Antimony, Total
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1593999	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1075	Contamination Name:	Beryllium, Total
Violation code:	03	Violation name:	Monitoring, Regular

Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1609299	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1024	Contamination Name:	CYANIDE
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1626499	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1036	Contamination Name:	Nickel
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1642299	Orig code:	S
State:	OR	Violation Year:	1999
Contamination code:	1085	Contamination Name:	Thallium, Total
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1999
Cmp edt:	12/31/2001		

Violation id:	1746703	Orig code:	S
State:	OR	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2003
Cmp edt:	06/30/2003		

Violation id:	1746805	Orig code:	S
State:	OR	Violation Year:	2005
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2005
Cmp edt:	12/31/2005		

Violation id:	1746907	Orig code:	S
State:	OR	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	09/30/2006		

Violation id:	1747009	Orig code:	S
State:	OR	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)

Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	09/30/2009		

Violation id:	1747010	Orig code:	S
State:	OR	Violation Year:	2009
Contamination code:	2987	Contamination Name:	Tetrachloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2009
Cmp edt:	12/31/2009		

Violation id:	1747011	Orig code:	S
State:	OR	Violation Year:	2010
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2010
Cmp edt:	06/30/2010		

Violation id:	331500	Orig code:	S
State:	OR	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2000
Cmp edt:	06/30/2000		

Violation id:	449101	Orig code:	S
State:	OR	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	09/30/2001		

Violation id:	901747009	Orig code:	S
State:	OR	Violation Year:	2011
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2011
Cmp edt:	06/30/2011		

Violation id:	901747010	Orig code:	S
State:	OR	Violation Year:	2011
Contamination code:	2987	Contamination Name:	Tetrachloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2011
Cmp edt:	12/31/2011		

Violation id:	901747011	Orig code:	S
State:	OR	Violation Year:	2012

Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2012
Cmp edt:	03/31/2012		

Violation id:	901747012	Orig code:	S
State:	OR	Violation Year:	2012
Contamination code:	2987	Contamination Name:	Tetrachloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2012
Cmp edt:	12/31/2012		

Violation id:	901747013	Orig code:	S
State:	OR	Violation Year:	2014
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2014
Cmp edt:	Not Reported		

Violation ID:	128395	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/29/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1563799	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	1563799	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	04/22/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1578799	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	1578799	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1593999	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1593999	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	1609299	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1609299	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	1626499	Orig Code:	S

Enforcemnt FY:	2004	Enforcement Action:	07/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1626499	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	1628996	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1628996	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1637996	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1637996	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1642299	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/09/2000
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	1642299	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1647096	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1647096	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1656296	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1656296	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1665496	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1665496	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1673896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1673896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal

Violation ID:	1682296	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1682296	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1690896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1690896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1699896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1699896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1709796	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1709796	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1718096	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1718096	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1726396	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1726396	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1736896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1736896	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1746496	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	06/29/2001
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	1746496	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/30/2001

Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1746703	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/08/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1746805	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/24/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1746907	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	11/14/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1747009	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/06/2009
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1747009	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	1747010	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/22/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	1747010	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/22/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1747010	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/22/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	1747011	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	08/02/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	1747011	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/22/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	331500	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/29/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	338098	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/29/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	403596	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/29/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	449101	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	10/29/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	718296	Orig Code:	S

Enforcemnt FY: 2001
Enforcement Detail: St AO (w/penalty) issued
Enforcement Action: 06/29/2001
Enforcement Category: Formal

Violation ID: 718296
Enforcemnt FY: 2001
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 08/30/2001
Enforcement Category: Resolving

Violation ID: 749297
Enforcemnt FY: 2002
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 08/20/2002
Enforcement Category: Resolving

Violation ID: 901747009
Enforcemnt FY: 2011
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 08/01/2011

Violation ID: 901747009
Enforcemnt FY: 2011
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 07/19/2011
Enforcement Category: Resolving

Violation ID: 901747010
Enforcemnt FY: 2013
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 06/20/2013
Enforcement Category: Resolving

Violation ID: 901747010
Enforcemnt FY: 2012
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 02/28/2012

Violation ID: 901747011
Enforcemnt FY: 2012
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 04/30/2012

Violation ID: 901747011
Enforcemnt FY: 2012
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 04/23/2012
Enforcement Category: Resolving

Violation ID: 901747012
Enforcemnt FY: 2013
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 02/04/2013

Violation ID: 901747012
Enforcemnt FY: 2013
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 06/20/2013
Enforcement Category: Resolving

PWS name: SKYLINE ELEMENTARY SD 1J
PWS type code: NTNC
Contaminant: ARSENIC
Compliance start date: 1/1/1999 0:00:00
Enforcement date: 2/9/2000 0:00:00
Violation measurement: Not Reported
Population served: 250
Violation ID: 1563799
Violation type: 3
Compliance end date: 12/31/2001 0:00:00
Enforcement action: State Public Notif Received

PWS name: SKYLINE ELEMENTARY SD 1J
PWS type code: NTNC
Contaminant: ARSENIC
Compliance start date: 1/1/1999 0:00:00
Enforcement date: 4/22/2004 0:00:00
Violation measurement: Not Reported
Population served: 250
Violation ID: 1563799
Violation type: 3
Compliance end date: 12/31/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: SKYLINE ELEMENTARY SD 1J
Population served: 250

PWS type code:	NTNC	Violation ID:	1578799
Contaminant:	ANTIMONY, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	2/9/2000 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1578799
Contaminant:	ANTIMONY, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	7/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1593999
Contaminant:	BERYLLIUM, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	2/9/2000 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1593999
Contaminant:	BERYLLIUM, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	7/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1609299
Contaminant:	CYANIDE	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	2/9/2000 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1609299
Contaminant:	CYANIDE	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	7/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1626499
Contaminant:	NICKEL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	2/9/2000 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1626499
Contaminant:	NICKEL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	7/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1642299
Contaminant:	THALLIUM, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	2/9/2000 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1642299
Contaminant:	THALLIUM, TOTAL	Violation type:	3
Compliance start date:	1/1/1999 0:00:00	Compliance end date:	12/31/2001 0:00:00
Enforcement date:	7/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1746703
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	4/1/2003 0:00:00	Compliance end date:	6/30/2003 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1746805
Contaminant:	NITRATE	Violation type:	3
Compliance start date:	1/1/2005 0:00:00	Compliance end date:	12/31/2005 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	1746907
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2006 0:00:00		
Compliance end date:	9/30/2006 0:00:00	Enforcement date:	No Enf Action as of
Enforcement action:	7/8/2009 0:00:00	Violation measurement:	Not Reported

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	331500
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	4/1/2000 0:00:00	Compliance end date:	6/30/2000 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

PWS name:	SKYLINE ELEMENTARY SD 1J	Population served:	250
PWS type code:	NTNC	Violation ID:	449101
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	9/30/2001 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OR Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Average	# > 4 pCi/L
97209	3	2.7	0.9	1.6	0

Federal EPA Radon Zone for MULTNOMAH County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MULTNOMAH COUNTY, OR

Number of sites tested: 33

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.530 pCi/L	91%	9%	0%
Basement	2.630 pCi/L	57%	43%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Water Resources
Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations
Source: Department of Geology and Mineral Industries
Telephone: 971-673-1540
A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon
Source: Oregon Health Services
Telephone: 503-731-4272
Radon Levels in Orgeon

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX D

Block 24 - Former Hoyt Street Railyard

NW 12th Avenue and NW Quimby Street

Portland, OR 97209

Inquiry Number: 6942616.8

April 18, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com


INQUIRY #: 6942616.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 2000
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1994
= 500'
N
EDR



INQUIRY #: 6942616.8

YEAR: 1990

= 500'

N

EDR


INQUIRY #: 6942616.8
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1975
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1970
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1960
= 500'
N
EDR



INQUIRY #: 6942616.8

YEAR: 1955

= 500'

N

EDR


INQUIRY #: 6942616.8
YEAR: 1951
= 500'
N
EDR


INQUIRY #: 6942616.8
YEAR: 1948
= 500'
N
EDR



INQUIRY #: 6942616.8

YEAR: 1936

= 500'

N

EDR

Block 24 - Former Hoyt Street Railyard

NW 12th Avenue and NW Quimby Street

Portland, OR 97209

Inquiry Number: 6942616.4

April 15, 2022

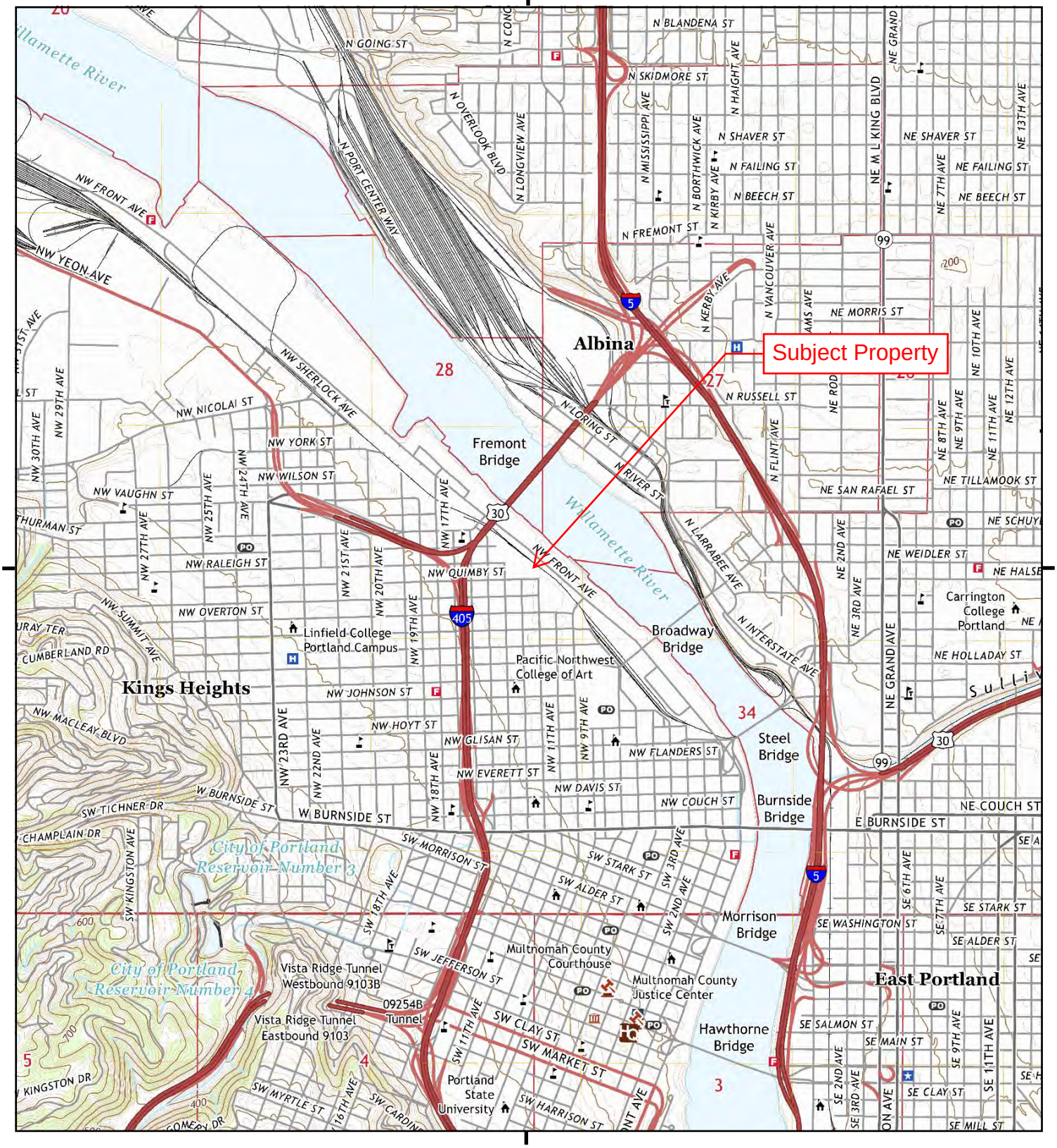
EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Historical Topo Map

2020



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

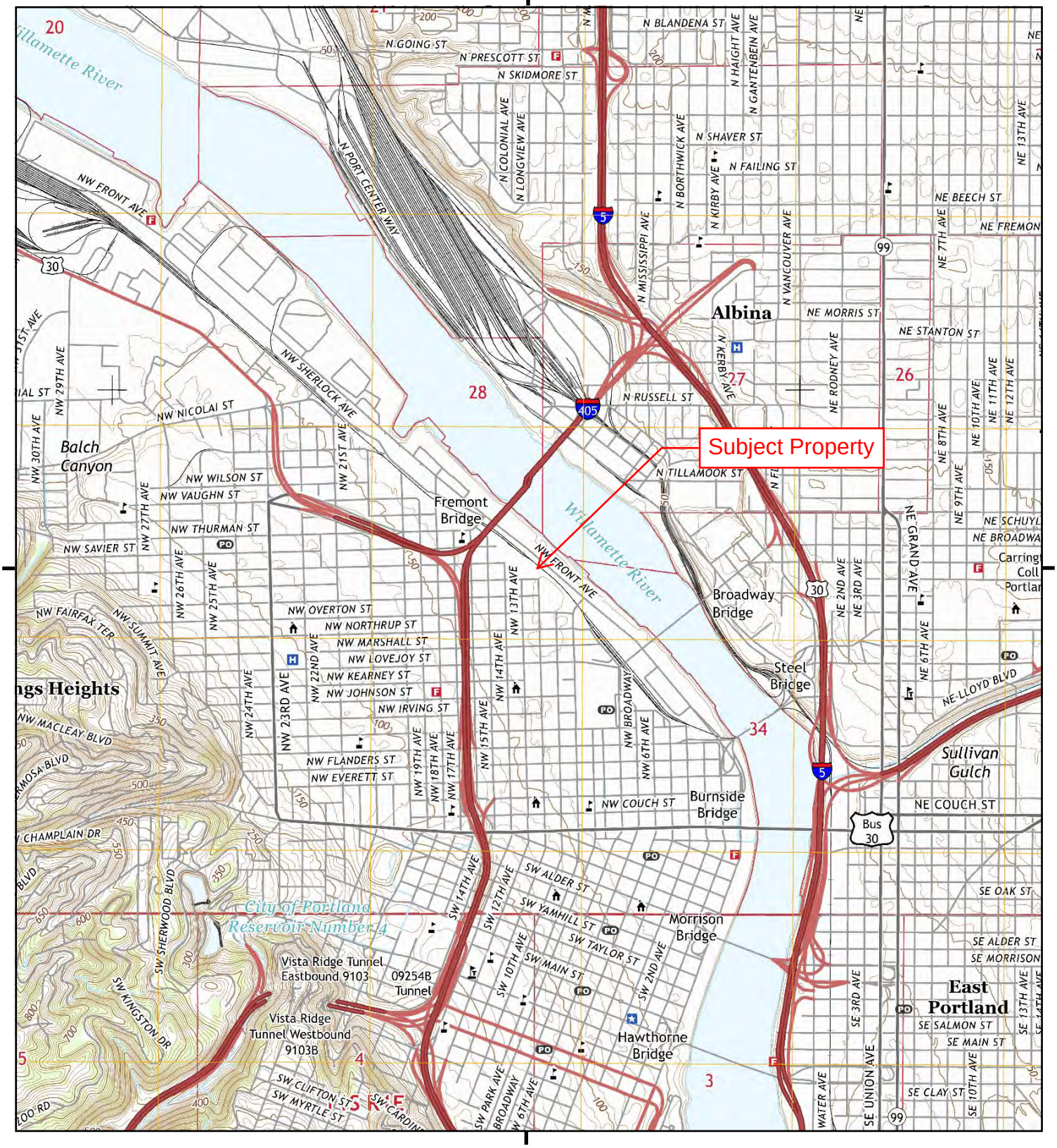
TP, Portland, 2020, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Historical Topo Map

2017



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

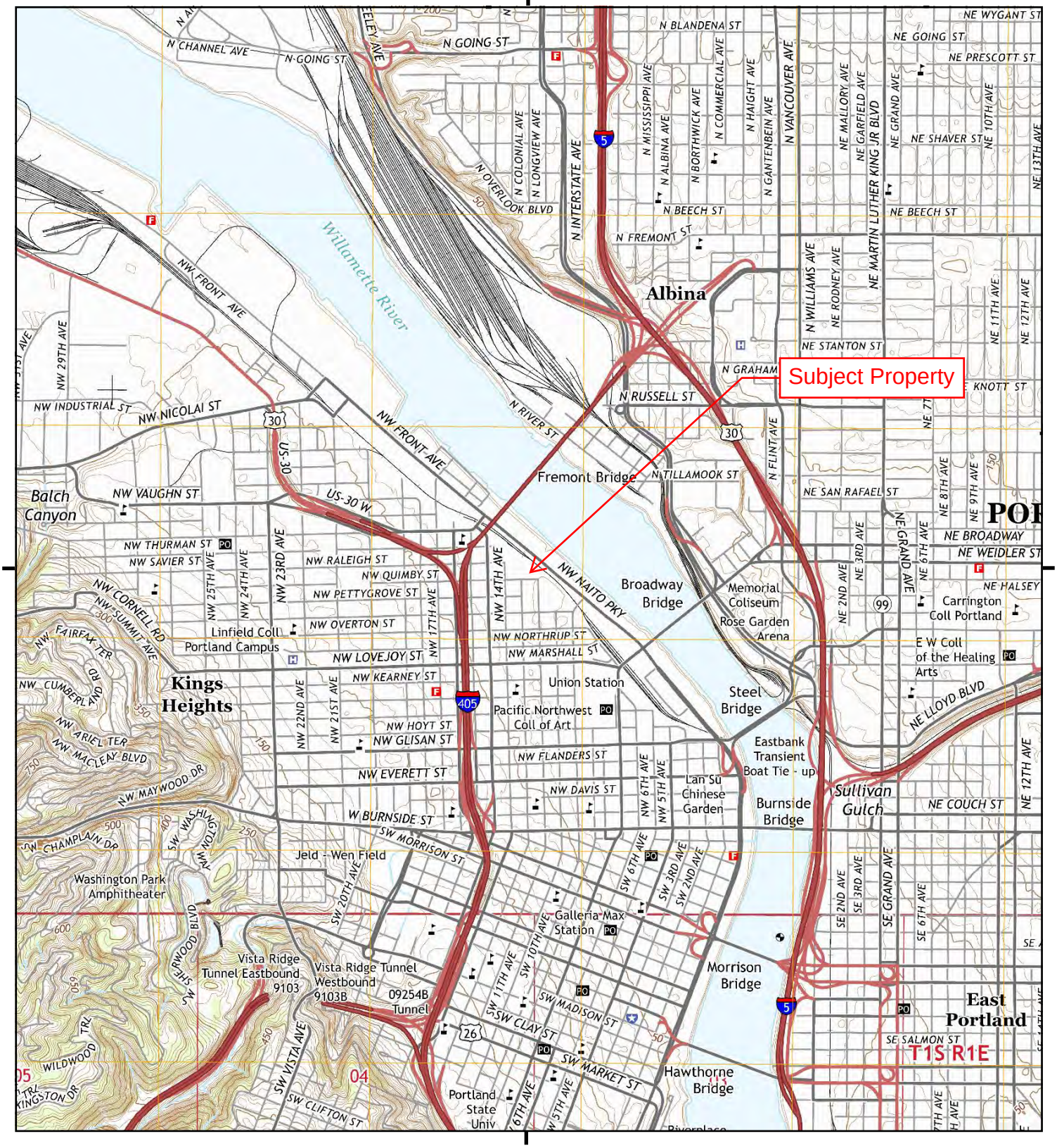
TP, Portland, 2017, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Historical Topo Map

2014



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

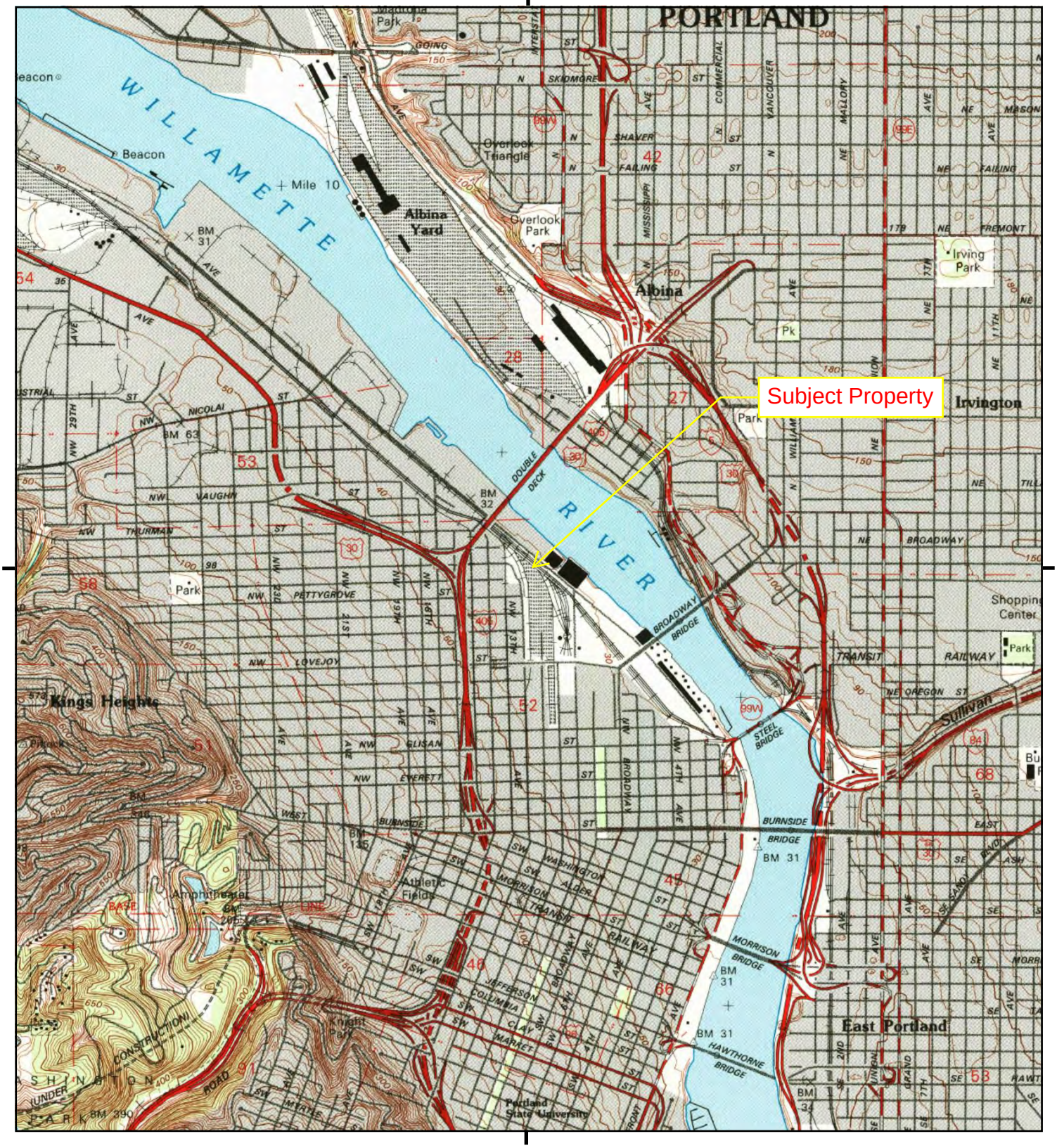
TP, Portland, 2014, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Historical Topo Map

1995



This report includes information from the following map sheet(s).

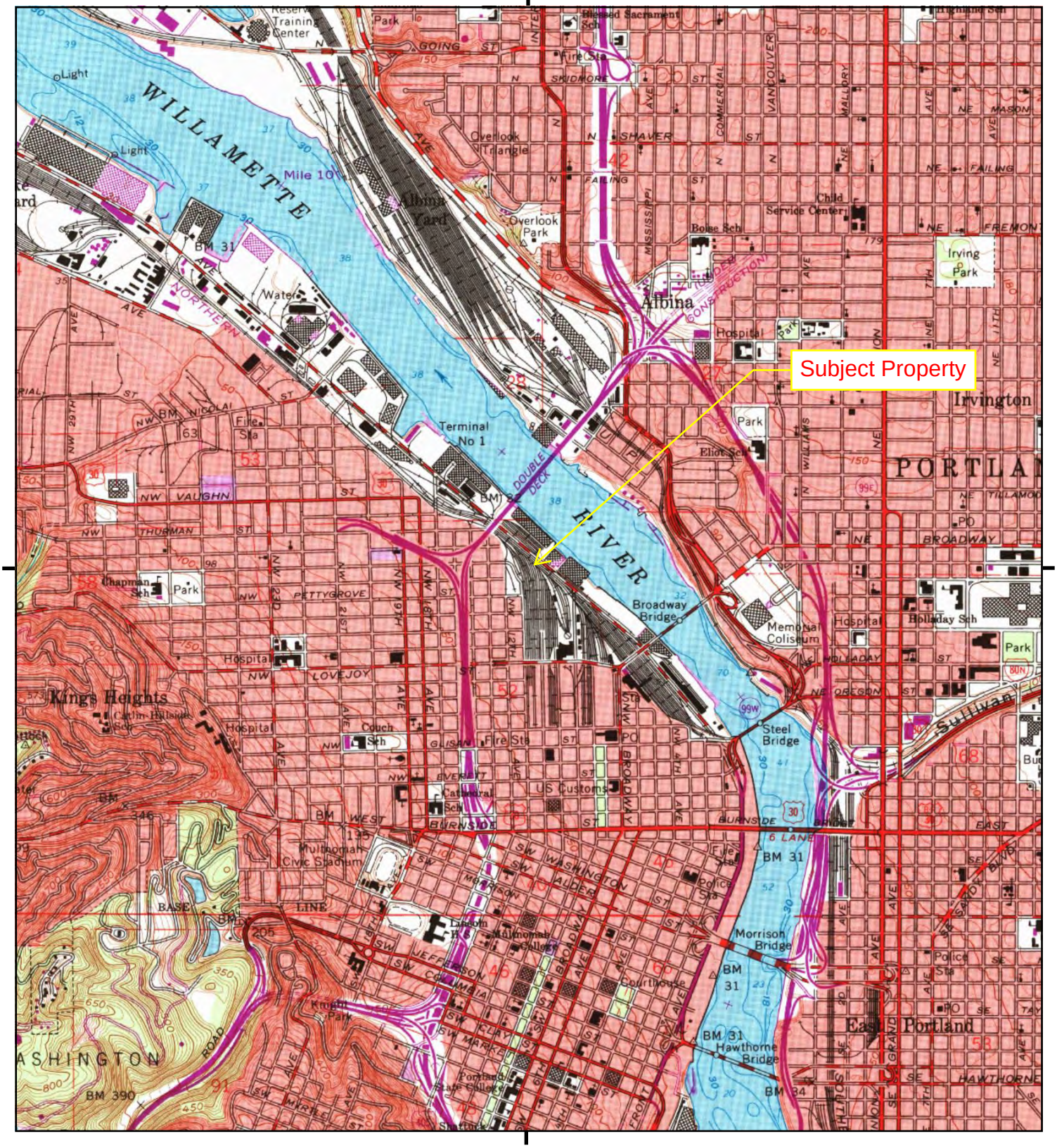
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Portland, 1995, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N



This report includes information from the following map sheet(s).

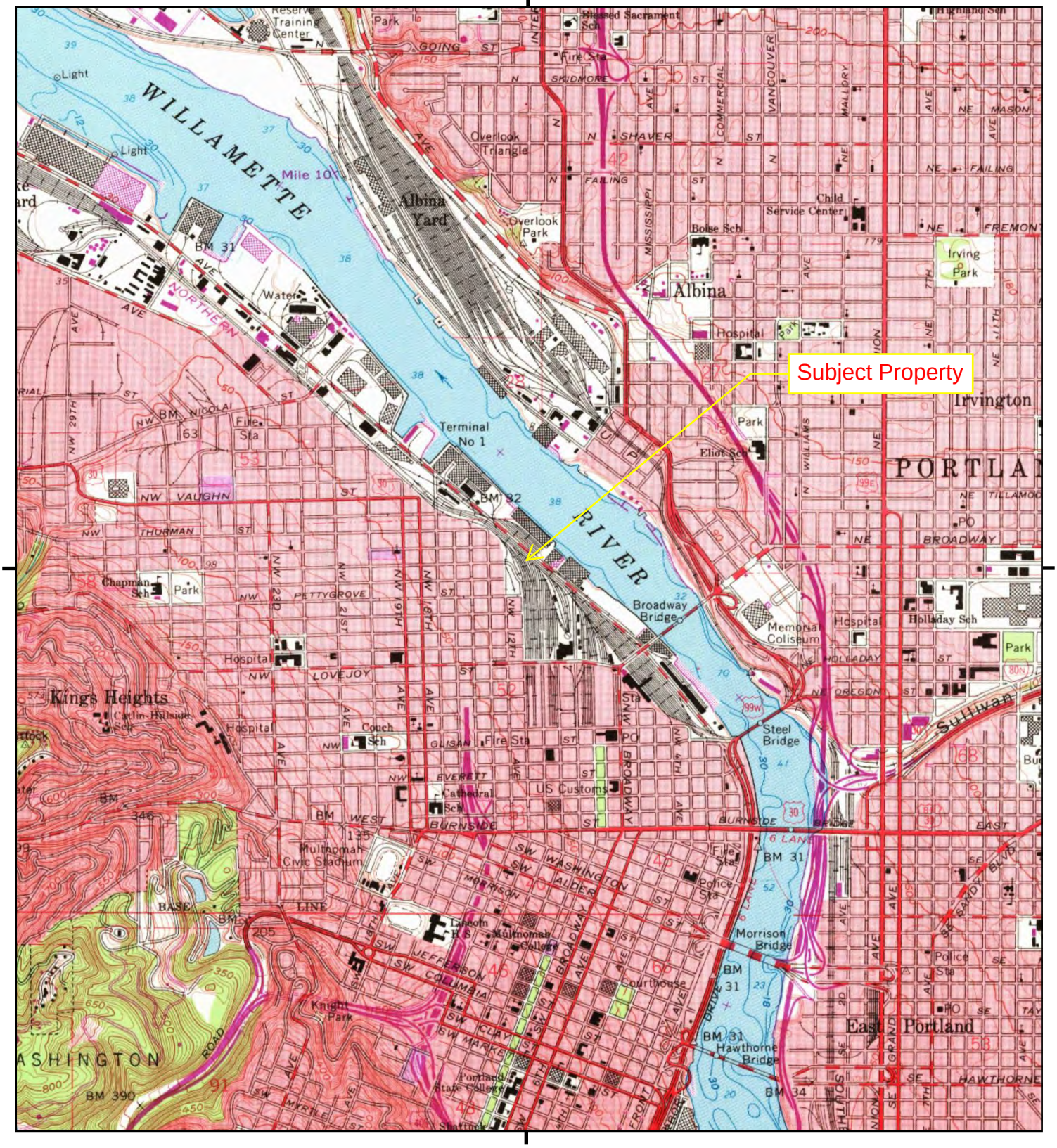
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Portland, 1977, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N



This report includes information from the following map sheet(s).

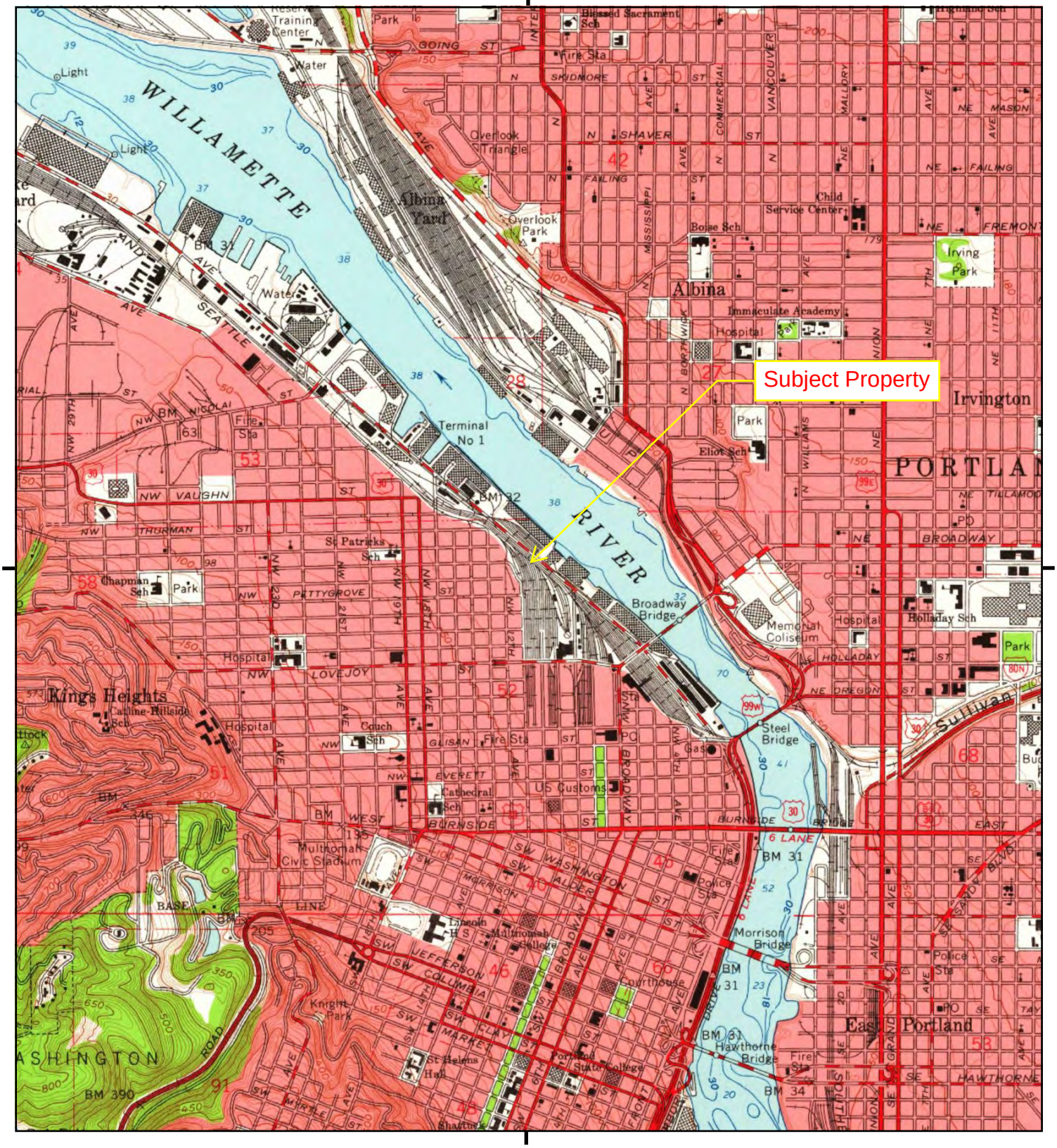
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Portland, 1970, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

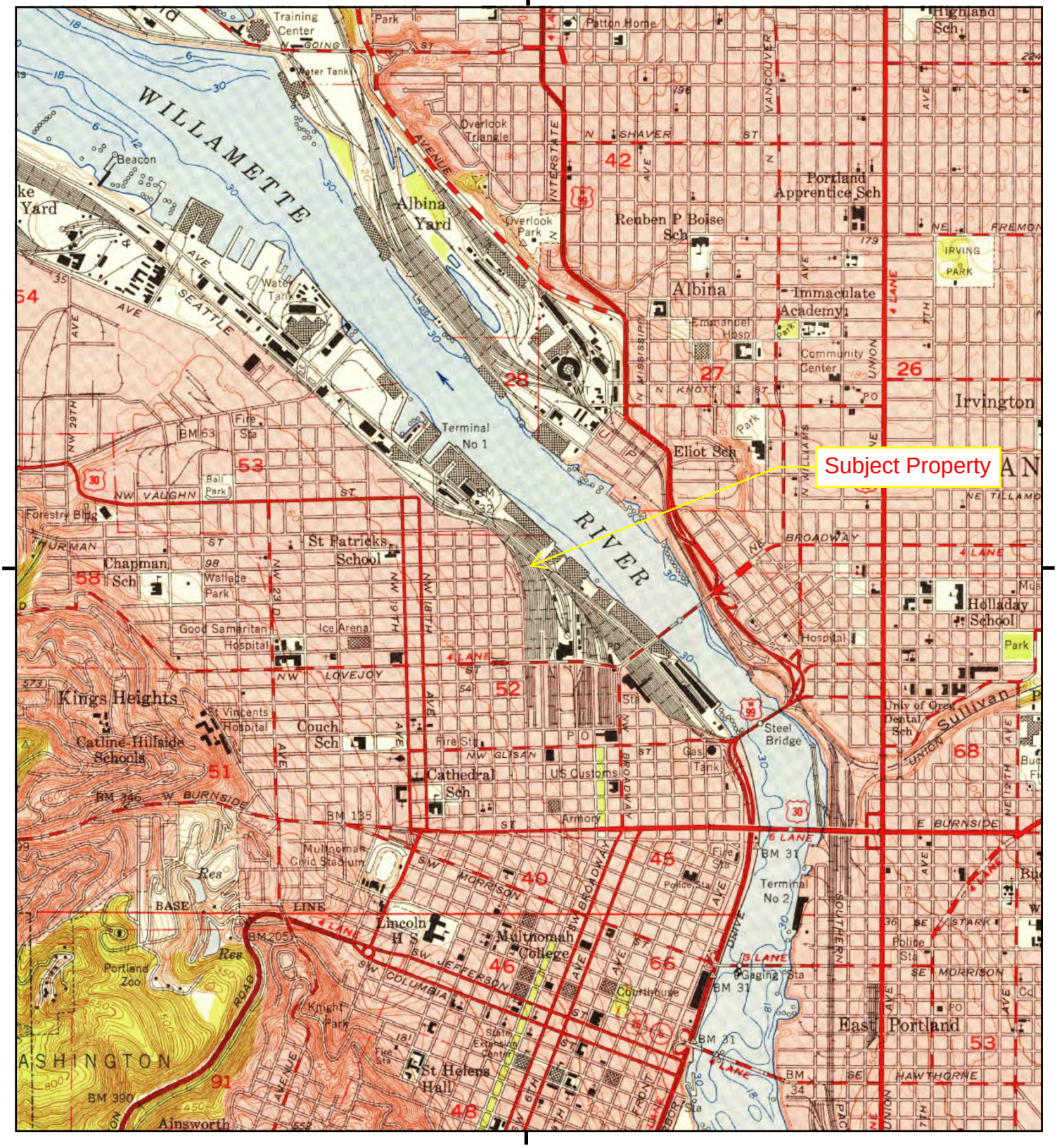
TP, Portland, 1961, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

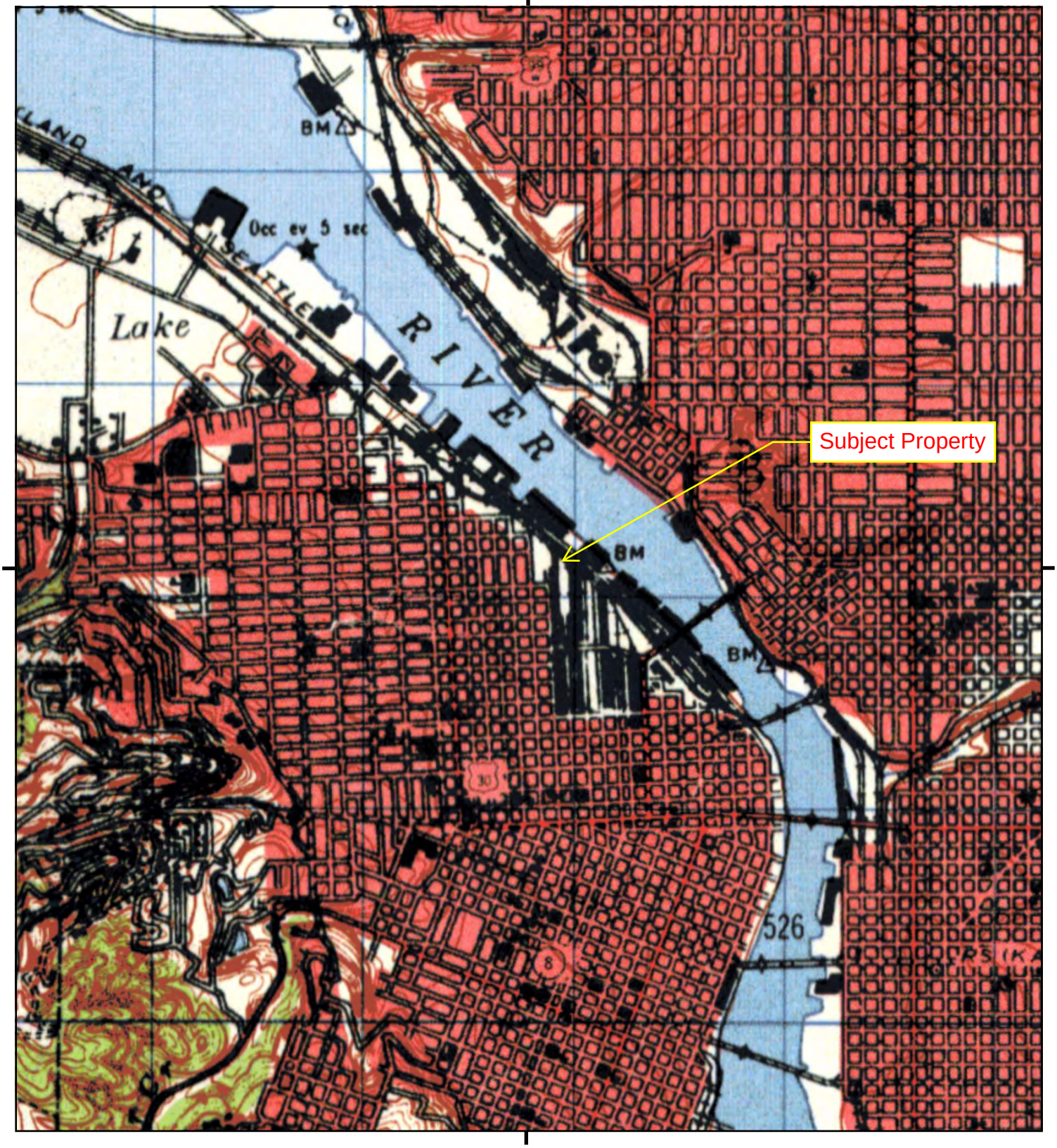
TP, Portland, 1954, 7.5-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Historical Topo Map

1940



This report includes information from the following map sheet(s).

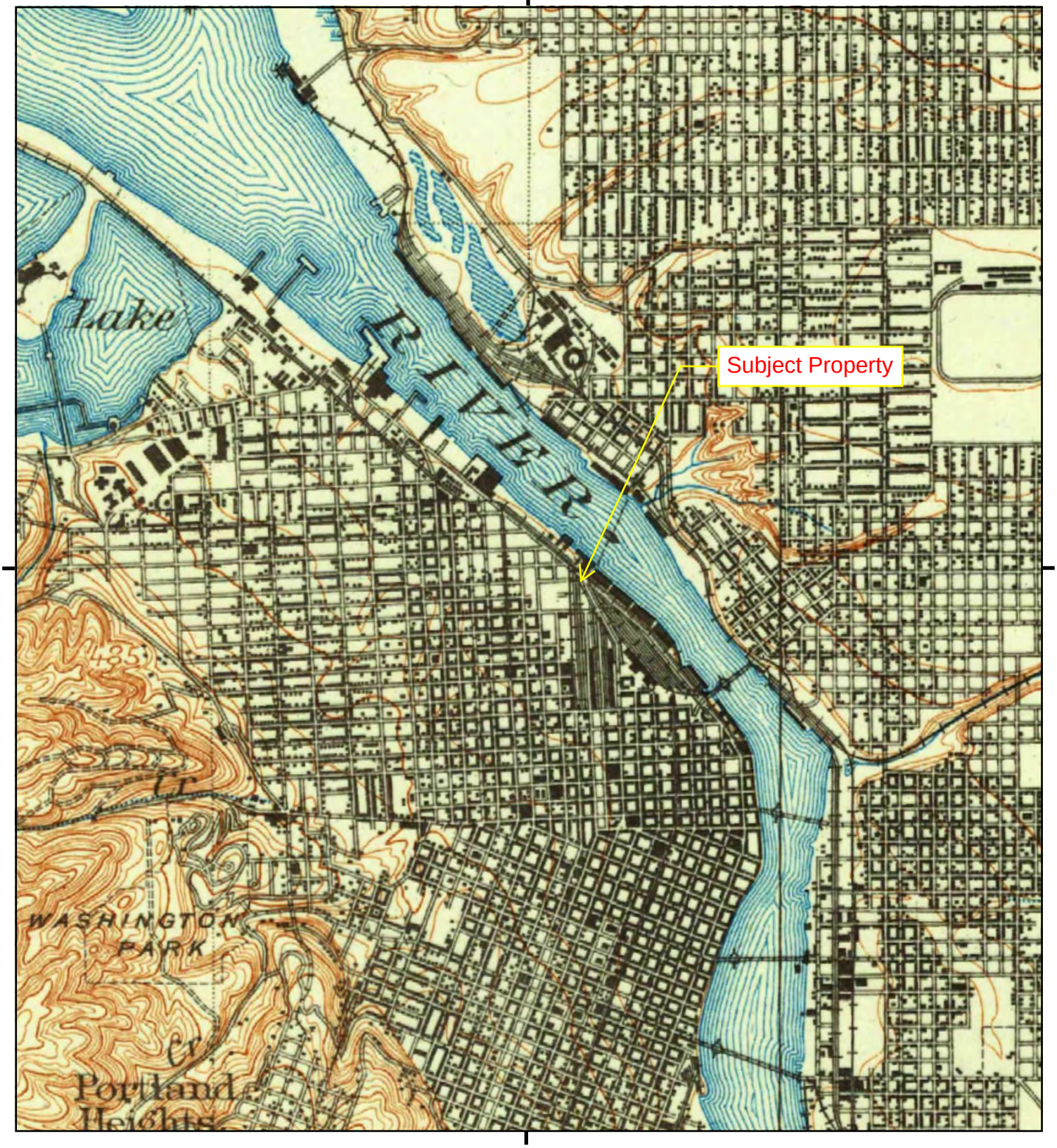
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, PORTLAND, 1940, 15-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N



This report includes information from the following map sheet(s).

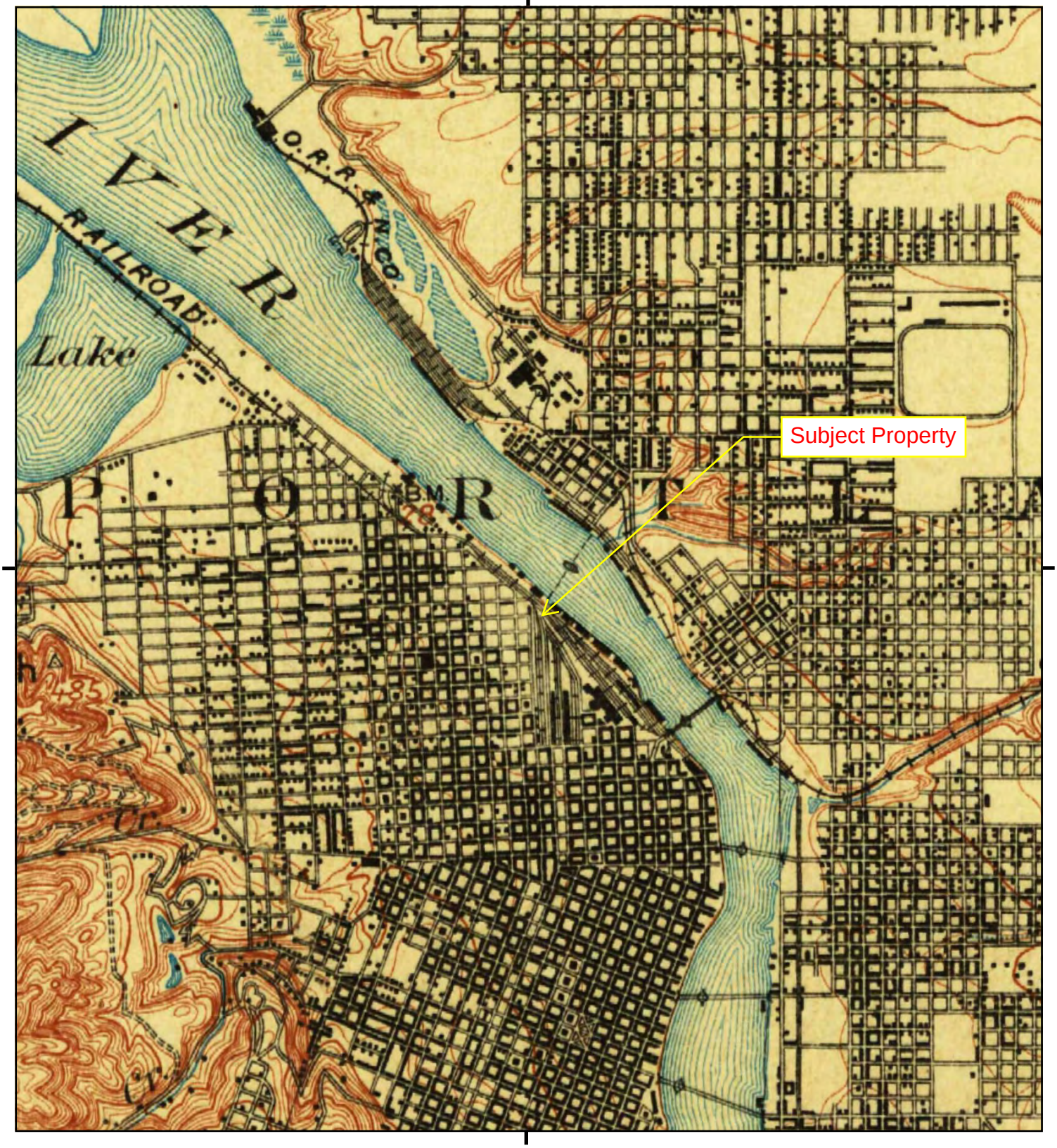
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Portland, 1905, 15-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Portland, 1897, 15-minute

SITE NAME: Block 24 - Former Hoyt Street Railyard
ADDRESS: NW 12th Avenue and NW Quimby Street
Portland, OR 97209
CLIENT: NV5

N

Block 24 - Former Hoyt Street Railyard
NW 12th Avenue and NW Quimby Street
Portland, OR 97209

Inquiry Number: 6942616.5
April 22, 2022

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1924 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2005	Cole Information Services	-	X	X	X
2004	Cole Information Services	-	X	X	-
1999	Cole Information Services	-	X	X	-
1994	Cole Information Services	-	X	X	-
1992	US WEST DIRECT	-	-	-	-
1985	R. L. Polk and Co. Publishers	-	X	X	X
1981	R.L. Polk Co. Publishers	-	X	X	X

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1980	R.L. Polk Co. Publishers	-	-	-	-
1977	R.L. Polk Co. Publishers	-	-	-	-
1975	R. L. Polk and Co. Publishers	-	X	X	X
1970	R. L. Polk Co. Publishers	-	X	X	X
1967	R.L.Polk Co.	-	-	-	-
1965	R.L.Polk Co.	-	X	X	X
1960	R. L. Polk Co. Publishers	-	X	X	X
1955	R. L. Polk Co. Publishers	-	X	X	X
1950	R. L. Polk Co. Publisher	-	X	X	X
1946	The Pacific Telephone and Telegraph Company	-	-	-	-
1940	R.L. Polk Co., Inc.	-	X	X	X
1935	R.L. Polk Co., Inc.	-	X	X	X
1930	R.L. Polk Co., Inc.	-	-	-	-
1924	R.L. Polk Co., Inc.	-	-	-	-

RECORD SOURCES

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EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
1540 NW 13th Avenue	Client Entered	
1616 NW 13th Avenue	Client Entered	
1447 NW 12th Avenue	Client Entered	
1415 NW 12th Avenue	Client Entered	
1099 NW Overton Streeet	Client Entered	
1462 NW Naito Parkway	Client Entered	
1550 NW Naito Parkway	Client Entered	
1750 NW Naito Parkway	Client Entered	X
NW Quimby Street	Client Entered	
1237 NW Raleigh	Client Entered	
NW Front Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

NW 12th Avenue and NW Quimby Street
Portland, OR 97209

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

12TH AVE NW

1435 12TH AVE NW

Year	Uses	Source	
1950	Vacant	R. L. Polk Co. Publisher	Image pg. A18

NW 12TH AVE

1415 NW 12TH AVE

Year	Uses	Source
2009	BENSON INDUSTRIES LLC	Cole Information Services
	BENSON INDUSTRIES LLC	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	HOLLOW METAL STEEL DOORS	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	HOLLOW METAL STEEL DOORS	Cole Information Services
1999	METRO MAILING SERVICE	Cole Information Services
	METRO MAILING SERVICE	Cole Information Services
1994	BENSON INDUSTRIES INC	Cole Information Services
	METRO MAILING SVC	Cole Information Services
	KRAMERS ADDRESSOGRAPH MAILING	Cole Information Services

1447 NW 12TH AVE

Year	Uses	Source
2017	ANIOMA ACHUGBUE	Cole Information Services
	AMY DUSHANE	Cole Information Services
	ROBERT FINKELSTEIN	Cole Information Services
	ESTELLE FREEDMAN	Cole Information Services
	BRITTNEY HANCOCK	Cole Information Services
	BRYAN HUMPHREYS	Cole Information Services
	JENA JOBIN	Cole Information Services

FINDINGS

Year	*Uses*	*Source*
2017	DOMINIQUE KEIMBAYE	Cole Information Services
	NICOLE SUCHY	Cole Information Services
	ANGIE TASHIMA	Cole Information Services
	TESS VILLAS	Cole Information Services
	JANET CUBAR	Cole Information Services
	LISA GUGLIOTTI	Cole Information Services
	JOSH HENSON	Cole Information Services
	STEPHANIE HIGGINS	Cole Information Services
	MEGHAN OCONNELL	Cole Information Services
	REBECCA ROSS	Cole Information Services
	MARY ROTBERG	Cole Information Services
	ODIN ROWAN	Cole Information Services
	CHRISTOPHER SCALERA	Cole Information Services
	ERIC SMITH	Cole Information Services
	MICHAEL WELCH	Cole Information Services
	TARA WELDON	Cole Information Services
	STUART BELL	Cole Information Services
	CHRISTIAN COOK	Cole Information Services
	JENNIFER DYKSTRA	Cole Information Services
	MOLLY MAHER	Cole Information Services
	DARRIN OSBORN	Cole Information Services
	CODY SIMMONDS	Cole Information Services
	AMANDA SKINNER	Cole Information Services
	MICHAEL THELANDER	Cole Information Services
	ASHLEY COATES	Cole Information Services
	KIMBERLY CULVER	Cole Information Services
	CHIBA KITZ	Cole Information Services
	KATARINA KROUSE	Cole Information Services
	MAGGIE LEFOR	Cole Information Services
	MICHELLE PAK	Cole Information Services
	TERESA ROSS	Cole Information Services
	MARY RYAN	Cole Information Services

FINDINGS

Year	*Uses*	*Source*
2017	ZACHARY BREHM	Cole Information Services
	JOHN CLEMENTS	Cole Information Services
	MALLORY DAVIS	Cole Information Services
	CLINT DELAPAZ	Cole Information Services
	KAITLYN KORDA	Cole Information Services
	JEFF SHINDLER	Cole Information Services
	ANDREW SOWLES	Cole Information Services
	JAIME TACKETT	Cole Information Services
	JASON TILFORD	Cole Information Services
	BRANDON TRIGLIA	Cole Information Services
	JAMES VOELCKERS	Cole Information Services
	ADRIAN BROWN	Cole Information Services
	SUSANNAH CRAWFORD	Cole Information Services
	BREANNA FLECKENSTEIN	Cole Information Services
	JENNIFER LEE	Cole Information Services
	RULA MUALLA	Cole Information Services
	COREY NEIL	Cole Information Services
	KEVIN OBERSTALLER	Cole Information Services
	GEORGE VARHOLA	Cole Information Services
	RACHAEL WITHERS	Cole Information Services
	AYESHA AHMED	Cole Information Services
	RICHARD BITHELL	Cole Information Services
	SARA DUEDE	Cole Information Services
	KELLY ELLMER	Cole Information Services
	MARGOT FLEMING	Cole Information Services
	ARTHUR JAFFE	Cole Information Services
	CAROLINE LYNCH	Cole Information Services
	ALISON ROTH	Cole Information Services
	CAMERON SCHILLING	Cole Information Services
	NEIL SMITH	Cole Information Services
	ERIC WASIK	Cole Information Services
	KATE CARMAN	Cole Information Services

FINDINGS

Year	Uses	Source
2017	BRIDGETTE CUNNINGHAM	Cole Information Services
	CHRISTOPHER EMMONS	Cole Information Services
	BRAD GRAHAM	Cole Information Services
	MATTHEW LANE	Cole Information Services
	QUYNH NGUYEN	Cole Information Services
	ANDREW NOLAN	Cole Information Services
	THE PARKER APARTMENTS	Cole Information Services

1509 NW 12TH AVE

Year	Uses	Source
2004	CAROL MARINO	Cole Information Services

NW 13TH AVE

1502 NW 13TH AVE

Year	Uses	Source
2017	LORENTZ BRUUN CONSTRUCTION	Cole Information Services
2014	LORENTZ BRUUN CONSTRUCTION	Cole Information Services

1630 NW 13TH AVE

Year	Uses	Source	
1985	Depts	R. L. Polk and Co. Publishers	Image pg. A3
	Burlington Northern Inc Section	R. L. Polk and Co. Publishers	Image pg. A3
1981	Burlington Northern Inc Section Depta	R.L. Polk Co. Publishers	Image pg. A6
1975	Burlington Northern Inc Section	R. L. Polk and Co. Publishers	Image pg. A8
	Depts	R. L. Polk and Co. Publishers	Image pg. A8
1970	S P & S RY BRIDGE S BLDG	R. L. Polk Co. Publishers	Image pg. A11
	SECTION	R. L. Polk Co. Publishers	Image pg. A11
	S P 6 S RY SECTION CREW	R. L. Polk Co. Publishers	Image pg. A11
	S P 6 S RY WATER SERV	R. L. Polk Co. Publishers	Image pg. A11

1705 NW 13TH AVE

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A3
1981	Burlington Northern Inc Yard Ofc	R.L. Polk Co. Publishers	Image pg. A6

FINDINGS

Year	Uses	Source	
1975	Burlington Northern Inc Yard	R. L. Polk and Co. Publishers	Image pg. A8
1970	180	R. L. Polk Co. Publishers	Image pg. A11
	BURLINGTON NORTHERN INC YARD OFC	R. L. Polk Co. Publishers	Image pg. A11

NW FRONT AVE

1464 NW FRONT AVE

Year	Uses	Source	
1981	Centennial Mills Inc flour	R.L. Polk Co. Publishers	Image pg. A7
1975	Centennial Mills Inc flour	R. L. Polk and Co. Publishers	Image pg. A9
1970	CENTENNIAL MILLS INC FLOUR	R. L. Polk Co. Publishers	Image pg. A12
	CROWN MILLS INC	R. L. Polk Co. Publishers	Image pg. A12

1466 NW FRONT AVE

Year	Uses	Source	
1994	WESTAR ELECTRIC CO	Cole Information Services	
	WESTERN STATIONS	Cole Information Services	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A4
1981	Amaocited Wholesale Hardware Inc	R.L. Polk Co. Publishers	Image pg. A7
1975	Associated Wholesale Hardware	R. L. Polk and Co. Publishers	Image pg. A9

1468 NW FRONT AVE

Year	Uses	Source	
1985	Moore Benjamin & Co	R. L. Polk and Co. Publishers	Image pg. A4

1650 NW FRONT AVE

Year	Uses	Source
1994	ROGERS TERMINAL & SHIPPING	Cole Information Services
	ALCOHOLICS ANONYMOUS	Cole Information Services
	BENSON INDUSTRIES INC	Cole Information Services
	FRITZ MARITIME AGENCY	Cole Information Services
	ROGERS TERMINAL & SHIPPING	Cole Information Services
	ALCOHOLICS ANONYMOUS	Cole Information Services
	BENSON INDUSTRIES INC	Cole Information Services
	FRITZ MARITIME AGENCY	Cole Information Services

FINDINGS

1750 NW FRONT AVE

Year	Uses	Source
1994	LLOYDS AGENT ALEXANDER GOW	Cole Information Services
	OVERSEAS MERCHANDISE INSPCTN	Cole Information Services
	BARWIL AGENCIES	Cole Information Services
	STATION L ROWING CLUB	Cole Information Services

NW Naito Parkway

1750 NW Naito Parkway

Year	Uses	Source	
2005	BUILDING	Cole Information Services	Image pg. A1
	American Industries Inc	Cole Information Services	Image pg. A1
	Dr Rick Baertlein MD	Cole Information Services	Image pg. A1
	Cargill Marine andl Terminal	Cole Information Services	Image pg. A1
	Consumer and BS Services OR Dept	Cole Information Services	Image pg. A1
	occupant	Cole Information Services	Image pg. A1
	Harris Group Inc	Cole Information Services	Image pg. A1
	Occupational Safety & Health Admn	Cole Information Services	Image pg. A1
	occupant	Cole Information Services	Image pg. A1
	00 Providence Occupational Health	Cole Information Services	Image pg. A1
	+ Rogers Terminal & Shipping	Cole Information Services	Image pg. A1
	NW FRONT AVE INTS	Cole Information Services	Image pg. A1

NW NAITO PKWY

1462 NW NAITO PKWY

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

1466 NW NAITO PKWY

Year	Uses	Source
2017	WEST COAST EVENT PRODUCTIONS	Cole Information Services
	KORE GROUP	Cole Information Services
2014	WEST COAST EVENT PRODUCTIONS	Cole Information Services

FINDINGS

Year	Uses	Source
2014	KORE GROUP	Cole Information Services
2009	CRESCENT ELECTRIC SUPPLY CO	Cole Information Services
	TEX USERS GROUP	Cole Information Services
	INTERACTIVE COMPOSITION CORP	Cole Information Services
2004	TEX USERS GROUP	Cole Information Services
	CRESCENT ELECTRIC SUPPLY	Cole Information Services
	EARTH RISE INTERNATIONAL	Cole Information Services
	INTERACTIVE COMPOSITION CORP	Cole Information Services
1999	CRESCENT ELECTRIC SUPPLY COMPANY	Cole Information Services
	WESTAR ELECTRIC COMPANY	Cole Information Services
	HARRISON ELECTRONIC PUBLISHING	Cole Information Services

1650 NW NAITO PKWY

Year	Uses	Source
2017	DOWNSTREAM	Cole Information Services
	SHAPIRO & ASSOCIATES INC	Cole Information Services
	CREW JANCI LLP	Cole Information Services
	ODONNELL & CLARK LLP	Cole Information Services
	ACGI SHIPPING	Cole Information Services
	ALZHEIMERS ASSOCIATION	Cole Information Services
	IDEX SOLUTIONS	Cole Information Services
	BENSON INDUSTRIES LLC	Cole Information Services
2014	ACGI SHIPPING	Cole Information Services
	IDEX SOLUTIONS	Cole Information Services
	ODONELL & CLARK LLP	Cole Information Services
	BENSON INDUSTRIES LLC	Cole Information Services
	DOWNSTREAM	Cole Information Services
	ODONNELL & CLARK LLP	Cole Information Services
	ALZHEIMERS ASSOCIATION	Cole Information Services
2009	MULTIPLE SCHLEROSIS NATIONAL MULTIPL	Cole Information Services
	TODD TATE	Cole Information Services
	THE RESEARCH & EDUCATION GROUP	Cole Information Services
	LEGACY HEALTH SYSTEM	Cole Information Services

FINDINGS

Year	*Uses*	*Source*
2009	CARGILL MARINE & TERMINAL	Cole Information Services
	NEWTON BARD MUSIC INC	Cole Information Services
	DOWNSTREAM LLC	Cole Information Services
	ESCO CORP	Cole Information Services
	OCEAN MARINE AGENCY	Cole Information Services
	INTERNATIONAL SHIPPING CO INC	Cole Information Services
	BENSON INDUSTRIES LLC	Cole Information Services
	BLUE WATER PACIFIC	Cole Information Services
	ALZHEIMERS ASSOCIATION	Cole Information Services
	D DANIEL CHANDLER ATTORNEY AT LAW	Cole Information Services
	ALCOHOLICS ANONYMOUS	Cole Information Services
	IDEX SOLUTIONS	Cole Information Services
	G A C & CO LLC	Cole Information Services
	ODONNELL CLARK & CREW	Cole Information Services
2004	EASE INC	Cole Information Services
	OFFICESCAPE INC	Cole Information Services
	RESEARCH & EDUCATION GROUP	Cole Information Services
	WORKING SPACES PACIFIC INC	Cole Information Services
	TURNER CONSTRUCTION CO	Cole Information Services
	DOWNSTREAM LLC	Cole Information Services
	BLUEWATER PACIFIC	Cole Information Services
	CUSTOM CURTAINWALL	Cole Information Services
	NEWTON BARD MUSIC & SOUND INC	Cole Information Services
	DOWNSTREAM DIGITAL	Cole Information Services
	NATIONAL MULTIPLE SCLEROSIS	Cole Information Services
	OCEAN MARINE INDUSTRIES	Cole Information Services
	SHAPIRO & ASSOCS	Cole Information Services
	AUDIO LANDSCAPES	Cole Information Services
1999	DONWSTREAM	Cole Information Services
	LEGACY OCCUPATIONAL HEALTH SERVICES	Cole Information Services
	JOHN COYLE	Cole Information Services
	NEWTON BARD MUSIC INCORPORATED	Cole Information Services

FINDINGS

Year	Uses	Source
1999	ROGERS TERMINAL & SHIPPING MAIN OFFICE	Cole Information Services
	DOWNSTREAM	Cole Information Services

1750 NW NAITO PKWY

Year	Uses	Source
2017	PROVIDENCE WORKER REHABILITATION	Cole Information Services
	AZ LOCKSMITH	Cole Information Services
	HARRIS GROUP	Cole Information Services
	LOCKSMITHA 24 HOURS	Cole Information Services
	ASAP LOCKSMITH	Cole Information Services
	15 MIN EMERGENCY LOCKSMITH	Cole Information Services
	24 7 EMERGENCY 1 LOCKSMITH	Cole Information Services
	AB LOCKSMITH	Cole Information Services
	24 HOUR LOCKSMITH	Cole Information Services
	7 24 LOCKSMITH SERVICES	Cole Information Services
	A EMERGENCY LOCKSMITH	Cole Information Services
	AMERICAN INDUSTRIES INC	Cole Information Services
	LOCKSMITH SERVICE	Cole Information Services
	7 DAY EMERGENCY LOCKSMITH	Cole Information Services
	A 24 HOUR LOCKSMITH	Cole Information Services
	PROVIDENCE OCCUPATIONAL HEALTH	Cole Information Services
	LOCKSMITH 1 24 HOUR	Cole Information Services
	01 LOCKSMITH	Cole Information Services
	A ANYTIME LOCKSMITH	Cole Information Services
	TMOBILE	Cole Information Services
	PROVIDENCE WORKER REHABILITATION	Cole Information Services
	HARRIS GROUP	Cole Information Services
	AZ LOCKSMITH	Cole Information Services
	LOCKSMITHA 24 HOURS	Cole Information Services
	ASAP LOCKSMITH	Cole Information Services
	15 MIN EMERGENCY LOCKSMITH	Cole Information Services
	24 7 EMERGENCY 1 LOCKSMITH	Cole Information Services
	AB LOCKSMITH	Cole Information Services

FINDINGS

Year	Uses	Source
2017	24 HOUR LOCKSMITH	Cole Information Services
	7 24 LOCKSMITH SERVICES	Cole Information Services
	A EMERGENCY LOCKSMITH	Cole Information Services
	AMERICAN INDUSTRIES INC	Cole Information Services
	LOCKSMITH SERVICE	Cole Information Services
	7 DAY EMERGENCY LOCKSMITH	Cole Information Services
	A 24 HOUR LOCKSMITH	Cole Information Services
	PROVIDENCE OCCUPATIONAL HEALTH	Cole Information Services
	LOCKSMITH 1 24 HOUR	Cole Information Services
	01 LOCKSMITH	Cole Information Services
	A ANYTIME LOCKSMITH	Cole Information Services
	TMOBILE	Cole Information Services
2014	LOCKSMITH SERVICE	Cole Information Services
	A ANYTIME LOCKSMITH	Cole Information Services
	A EMERGENCY LOCKSMITH	Cole Information Services
	24 7 EMERGENCY 1 LOCKSMITH	Cole Information Services
	15 MIN EMERGENCY LOCKSMITH	Cole Information Services
	AB LOCKSMITH	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	ASAP LOCKSMITH	Cole Information Services
	HARRIS GROUP	Cole Information Services
	AZ LOCKSMITH	Cole Information Services
	LOCKSMITH 1 24 HOUR	Cole Information Services
	LOCKSMITH A 24 HOURS	Cole Information Services
	BAERTLEIN RICK MD	Cole Information Services
	24 HOUR LOCKSMITH	Cole Information Services
	7 24 LOCKSMITH SERVICES	Cole Information Services
	A 24 HOUR LOCKSMITH	Cole Information Services
	7 DAY EMERGENCY LOCKSMITH	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
	AMERICAN INDUSTRIES INC	Cole Information Services
	LOCKSMITH SERVICE	Cole Information Services

FINDINGS

Year	Uses	Source
2014	A ANYTIME LOCKSMITH	Cole Information Services
	A EMERGENCY LOCKSMITH	Cole Information Services
	15 MIN EMERGENCY LOCKSMITH	Cole Information Services
	24 7 EMERGENCY 1 LOCKSMITH	Cole Information Services
	AB LOCKSMITH	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	ASAP LOCKSMITH	Cole Information Services
	HARRIS GROUP	Cole Information Services
	AZ LOCKSMITH	Cole Information Services
	LOCKSMITH 1 24 HOUR	Cole Information Services
	LOCKSMITH A 24 HOURS	Cole Information Services
	BAERTLEIN RICK MD	Cole Information Services
	24 HOUR LOCKSMITH	Cole Information Services
	7 24 LOCKSMITH SERVICES	Cole Information Services
	A 24 HOUR LOCKSMITH	Cole Information Services
	7 DAY EMERGENCY LOCKSMITH	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
	AMERICAN INDUSTRIES INC	Cole Information Services
2009	PROVIDENCE OCCUPATIONAL HEALTH NW	Cole Information Services
	OR OCCUPATIONAL SAFETY & HEALTH ADMN	Cole Information Services
	CONSUMER & BS SERVICES OR DEPT	Cole Information Services
	AMERICAN INDUSTRIES INC	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
	KIECKHAFTER SCHIFFER & CO LLP	Cole Information Services
	ROGERS TERMINAL & SHIPPING DIV CAR	Cole Information Services
	LCW WIRELESS LLC	Cole Information Services
	BAERTLEIN RICK MD	Cole Information Services
	KS & CO LLP CERTIFIED PUBLIC ACCOUNT	Cole Information Services
	ORE DEPT CONSUMR ND BS SERVICES	Cole Information Services
	PROVIDENCE OCCUPATIONAL HEALTH NW	Cole Information Services
	CONSUMER & BS SERVICES OR DEPT	Cole Information Services

FINDINGS

Year	Uses	Source
2009	AMERICAN INDUSTRIES INC	Cole Information Services
	OR OCCUPATIONAL SAFETY & HEALTH ADMN	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
	KIECKHAFTER SCHIFFER & CO LLP	Cole Information Services
	ROGERS TERMINAL & SHIPPING DIV CAR	Cole Information Services
	LCW WIRELESS LLC	Cole Information Services
	BAERTLEIN RICK MD	Cole Information Services
	KS & CO LLP CERTIFIED PUBLIC ACCOUNT	Cole Information Services
	ORE DEPT CONSUMR ND BS SERVICES	Cole Information Services
2004	OCCUPATIONAL SAFETY & HEALTH	Cole Information Services
	PROVIDENCE OCCUPATIONAL HEALTH	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
	OCCUPATIONAL SAFETY & HEALTH	Cole Information Services
	PROVIDENCE OCCUPATIONAL HEALTH	Cole Information Services
	HARRIS GROUP INC	Cole Information Services
	RICK BAERTLEIN	Cole Information Services
1999	HARRIS GROUP INCORPORATED	Cole Information Services
	CSI DIGITAL	Cole Information Services
	COMSYS	Cole Information Services
	LLOYDS AGENT ALEXANDER GOW INCORPORATED	Cole Information Services
	HARRIS GROUP INCORPORATED	Cole Information Services
	CSI DIGITAL	Cole Information Services
	COMSYS	Cole Information Services
	LLOYDS AGENT ALEXANDER GOW INCORPORATED	Cole Information Services

1800 NW NAITO PKWY

Year	Uses	Source
2017	CANV CONSTRUCTION LLC	Cole Information Services
	WATERLINE APARTMENTS	Cole Information Services

FINDINGS

Year	Uses	Source
2014	CANV CONSTRUCTION LLC	Cole Information Services
2009	RUBY COMMUNICATIONS LLC	Cole Information Services
2004	RUBY COMMUNICATIONS LLC	Cole Information Services

NW NAITO PKY

1750 NW NAITO PKY

Year	Uses	Source	
2005	Harris Group Inc	Cole Information Services	Image pg. A1
	Occupational Safety & Health Admn	Cole Information Services	Image pg. A1
	occupant	Cole Information Services	Image pg. A1
	00 Providence Occupational Health	Cole Information Services	Image pg. A1
	+ Rogers Terminal & Shipping	Cole Information Services	Image pg. A1
	NW FRONT AVE INTS	Cole Information Services	Image pg. A1
	occupant	Cole Information Services	Image pg. A1
	Consumer and BS Services OR Dept	Cole Information Services	Image pg. A1
	Cargill Marine andl Terminal	Cole Information Services	Image pg. A1
	Dr Rick Baertlein MD	Cole Information Services	Image pg. A1
	BUILDING	Cole Information Services	Image pg. A1
	American Industries Inc	Cole Information Services	Image pg. A1

1800 NW NAITO PKY

Year	Uses	Source	
2005	Ruby Communications Lie	Cole Information Services	Image pg. A1

NW PETTYGROVE ST

1335 NW PETTYGROVE ST

Year	Uses	Source	
1970	SHOP I	R. L. Polk Co. Publishers	Image pg. A13
	GABCO BOILER 6 EQUIP CO	R. L. Polk Co. Publishers	Image pg. A13

FINDINGS

NW RALEIGH ST

1312 NW RALEIGH ST

Year	Uses	Source	
1985	Benson Tom Ind Add Sp	R. L. Polk and Co. Publishers	Image pg. A5

1313 NW RALEIGH ST

Year	Uses	Source	
1985	Burlington Northern Inc Shops	R. L. Polk and Co. Publishers	Image pg. A5
1975	Burlington Northern Inc Shops	R. L. Polk and Co. Publishers	Image pg. A10
1970	SHOPS	R. L. Polk Co. Publishers	Image pg. A14
	BURLINGTON NORTHERN INC	R. L. Polk Co. Publishers	Image pg. A14

1350 NW RALEIGH ST

Year	Uses	Source	
2017	BENSON INDUSTRIES LLC	Cole Information Services	
2005	Steven E Benson +e	Cole Information Services	Image pg. A2
	NW 15TH AVE INTS	Cole Information Services	Image pg. A2
	Benson Industries Llc	Cole Information Services	Image pg. A2
	T A Onchi Lie	Cole Information Services	Image pg. A2
2004	TA ONCHI LLC	Cole Information Services	
	OCCUPANT UNKNOWN	Cole Information Services	
1985	Benson Tom Industries Inc glass	R. L. Polk and Co. Publishers	Image pg. A5
1975	Benson Tom Industries Inc glasa	R. L. Polk and Co. Publishers	Image pg. A10
1970	BENSON TOM GLASS CO INC	R. L. Polk Co. Publishers	Image pg. A14

PETTYGROVE NW

1239 PETTYGROVE NW

Year	Uses	Source	
1950	Liberty Fuel & Ice Co	R. L. Polk Co. Publisher	Image pg. A19
1940	ply Co yds	R.L. Polk Co., Inc.	Image pg. A21
	A & A Machinery & Sup	R.L. Polk Co., Inc.	Image pg. A21

1305 PETTYGROVE NW

Year	Uses	Source	
1940	Comfort Fuel Co	R.L. Polk Co., Inc.	Image pg. A21

FINDINGS

PETTYGROVE ST NW

1239 PETTYGROVE ST NW

Year	Uses	Source	
1935	Inglehart Ernest F	R.L. Polk Co., Inc.	Image pg. A23

1305 PETTYGROVE ST NW

Year	Uses	Source	
1935	Lang Coal Co	R.L. Polk Co., Inc.	Image pg. A23

1319 PETTYGROVE ST NW

Year	Uses	Source	
1935	Burtch Eva Mrs	R.L. Polk Co., Inc.	Image pg. A23

RALEIGH NW

1312 RALEIGH NW

Year	Uses	Source	
1950	Vacant	R. L. Polk Co. Publisher	Image pg. A20
1940	Cleaver Mfg Co paint mfrs	R.L. Polk Co., Inc.	Image pg. A22
	Johnson Service Co tem	R.L. Polk Co., Inc.	Image pg. A22
	perature regulation	R.L. Polk Co., Inc.	Image pg. A22

1313 RALEIGH NW

Year	Uses	Source	
1960	SP&S Ry stoops	R. L. Polk Co. Publishers	Image pg. A16
1955	SP&S Ry shops	R. L. Polk Co. Publishers	Image pg. A17

1326 RALEIGH NW

Year	Uses	Source	
1950	Vacant	R. L. Polk Co. Publisher	Image pg. A20
1940	J & H Grain & Feed Co	R.L. Polk Co., Inc.	Image pg. A22

1350 RALEIGH NW

Year	Uses	Source	
1960	Benson Tom Glass Co Inc	R. L. Polk Co. Publishers	Image pg. A16
1955	Colorado Fuel & Iron Corp Pac Coast div steel	R. L. Polk Co. Publishers	Image pg. A17

FINDINGS

RALEIGH ST NW

1312 RALEIGH ST NW

Year	Uses	Source	
1935	Cleaver Mfg Co paint mfrs	R.L. Polk Co., Inc.	Image pg. A24
	Johnson Service Co htg and	R.L. Polk Co., Inc.	Image pg. A24
	ventilating	R.L. Polk Co., Inc.	Image pg. A24
	Murphy John W genl contr	R.L. Polk Co., Inc.	Image pg. A24
	Gerling Fred C auto repr	R.L. Polk Co., Inc.	Image pg. A24

1313 RALEIGH ST NW

Year	Uses	Source	
1965	SPOKANE PORTLAND SEATTLE	R.L.Polk Co.	Image pg. A15
	RAILWAYS SHOPS	R.L.Polk Co.	Image pg. A15

1326 RALEIGH ST NW

Year	Uses	Source	
1935	Mc Intosh Robt Engine	R.L. Polk Co., Inc.	Image pg. A24
	Machine Works	R.L. Polk Co., Inc.	Image pg. A24

1350 RALEIGH ST NW

Year	Uses	Source	
1965	BENSON TOM GLASS CO INC	R.L.Polk Co.	Image pg. A15

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
NW Front Avenue	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
NW Quimby Street	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1099 NW Overton Streeet	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1237 NW Raleigh	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1239 PETTYGROVE NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1946, 1935, 1930, 1924
1239 PETTYGROVE ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1930, 1924
1305 PETTYGROVE NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1935, 1930, 1924
1305 PETTYGROVE ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1930, 1924
1312 NW RALEIGH ST	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1312 RALEIGH NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1946, 1935, 1930, 1924
1312 RALEIGH ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1930, 1924
1313 NW RALEIGH ST	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1981, 1980, 1977, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1313 RALEIGH NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1950, 1946, 1940, 1935, 1930, 1924
1313 RALEIGH ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1319 PETTYGROVE ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1930, 1924
1326 RALEIGH NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1946, 1935, 1930, 1924
1326 RALEIGH ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1930, 1924
1335 NW PETTYGROVE ST	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1350 NW RALEIGH ST	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1981, 1980, 1977, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
1350 NW RALEIGH ST	2014, 2009, 2005, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1350 RALEIGH NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1950, 1946, 1940, 1935, 1930, 1924
1350 RALEIGH ST NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1415 NW 12TH AVE	2017, 2014, 2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1415 NW 12TH AVE	2017, 2014, 2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1415 NW 12TH AVE	2017, 2014, 2009, 2005, 2004, 1999, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1415 NW 12th Avenue	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1435 12TH AVE NW	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1946, 1940, 1935, 1930, 1924
1447 NW 12TH AVE	2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1447 NW 12th Avenue	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1462 NW Naito Parkway	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1462 NW NAITO PKWY	2017, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1462 NW NAITO PKWY	2017, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1464 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1980, 1977, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1466 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1980, 1977, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1466 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1466 NW NAITO PKWY	2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1468 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1502 NW 13TH AVE	2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1509 NW 12TH AVE	2017, 2014, 2009, 2005, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1540 NW 13th Avenue	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1550 NW Naito Parkway	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
1616 NW 13th Avenue	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1630 NW 13TH AVE	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1980, 1977, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1650 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1650 NW NAITO PKWY	2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1705 NW 13TH AVE	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1980, 1977, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1750 NW FRONT AVE	2017, 2014, 2009, 2005, 2004, 1999, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1750 NW Naito Parkway	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1750 NW NAITO PKWY	2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1750 NW NAITO PKWY	2005, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1750 NW NAITO PKY	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1800 NW NAITO PKWY	2005, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
1800 NW NAITO PKY	2017, 2014, 2009, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
NW 12th Avenue and NW Quimby Street	2017, 2014, 2009, 2005, 2004, 1999, 1994, 1992, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

Source Page Images Appendix

NW Naito Parkway 2005

NW NAITO PKWY

305 Felicia Romero ... 02 503.226.4107
♣Jodi Rookhuyzen ... 02 NP
216 Betty Roussos ... 98 503.226.0585
305 Lily Salguiero ... 02 503.220.4107
403 Bryan R Sanders ... + NP
322 Thomas J Schepker ... + NP
A-10 Nicholas W Schneider ... 01 NP
207 Holly Sheriff ... + 503.227.2540
H G Shively ... 03 503.241.7788
Harry Shively ... 03 503.241.7788
422 Karen A Smith ... 04 NP
321 Elisa J Snow ... 04 503.222.8599
535 Cilon Danny Soriano ... 92 NP
328 Joshua W Stewart ... 03 NP
335★Technology Consultants Inc + 503.469.1295
♣Travis Teel ... 01 NP
♣C Thomason ... 01 NP
333 Mario Torres ... + 503.226.1415
♣Brian Tosky ... 02 503.227.0912
♣H Trinh ... 03 503.224.3140
505 James Vanzyke ... + 503.228.3868
♣Michael Vinzant ... 01 NP
406 Shane Walker ... + 503.227.4273
♣N Watson ... + 503.243.2555
419 Colleen E Welch ... + 503.227.5829
432 Larry White ... 02 503.227.0701
♣Laura Wiedenhoeft ... 02 503.227.0912
♣Ronald Wignot ... 02 NP
232 John Wilson ... 98 503.224.2151
232 Mc Wilson ... 98 503.295.3059
♣D Wulfe ... 02 NP
102★Yards at Union Stn Apartments 99 503.596.5300
330 H Yaskin ... 00 503.274.2943
220 Rachel Young ... 03 503.248.2083
1010 Apartments
M14 Heather J Alvey ... 03● NP
M2 Thomas W Arnold III ... 03● 503.222.6043
M19 Ann Beier ... 03● NP
M16 Mary T Hanigan ... 03● NP
144 Roland W Isaac ... 87 NP
♣Lee Kilbourn ... + 503.274.3673
♣Barron K Lacy ... + 503.222.3973
M18 Alex V Lamadrid ... 03● NP
M18 Lilia B Lamadrid ... 03● NP
M16 Richard J Lane ... 03● NP
M7 Casba L Mera ... 03● NP
M7 Patricia A Mera ... 03● NP
M17 Suzanne E Moody ... + NP
M11 Sage L Nottage ... 03● NP
M4 Arif Sutjawan ... 03● 503.224.6670
1020 Apartments
N4 Joseph A Bivona ... 98 503.225.1713
N5 Guy F Bodth ... +● NP
N9 Susan Brown ... 03● NP
N9 Timothy Brown ... 03● NP
Joe M Caruso ... 03 503.222.9389
♣Joseph Davis ... 02 NP
N11 Kourtney Janel Kiblinger ... + NP
N1 Sanjit Kundu ... + 503.224.4543
N8 Frances Miller ... +● 971.544.2277
N7 James E Richards ... +● NP
N7 Peggy R Richards ... +● NP
N10 Donald W Robinson ... 03● NP
N6 Laura J Ruhwedel ... 03● NP
N5 Anita G Sande ... +● NP
N2 Wai L Yan ... 03● 503.274.4429
1040
O14 Paul Aler ... 03 503.295.0100
O5 Eddie Coleman ... + 503.228.0988
O15 Kim C Coleman ... 03● 503.222.2169
O4◊ Faye Davis ... 98 503.796.2611
O15★Duckys Attic Llc ... + 503.222.2168
14 D Fadel ... 03 NP
14 Mazen R Fadel ... 03 NP
♣David L Graham ... 01 NP
O17 Robert W Haglund ... +● NP
O6 Brent D Harmon ... 03● NP
1★Jrate Llc ... + 503.224.3430
O11 Thomas Knot ... +● NP
4 Inger M Knudsen ... 02 NP
O9 Veronica Magallanes ... 03● 503.228.0709
O7 Andrew A Marshall ... 03● NP
9 John M Pratscher ... 95 NP
O1 Jason Allen Rate ... 03● NP
O8★Kristine K Schlick ... 03● NP
O16 Darcy A Southard ... 04● NP
O4◊ Jeanne J Vondefenheim ... 99 503.796.2611
1200 Building
290★Agri Business Council of Oregon 91 503.241.1487
★♣Agriculture Oregon Department + 503.274.2333
220★American Heart Association 02 503.233.0100
500★American Orient Express . 98 503.226.8181
★♣Ace Rail Services Llc .. 02◎503.226.8181
200★Aras Systems Inc ... 02 503.241.0315
300★Conducive Technology Corp 01 503.274.0938
260★Cross Currents ... + 503.248.2290
500★Empress of The North ... 03 503.265.5565
110★Erol Inc ... 03 503.221.6200
470★Foundation For Accountability 02 503.223.2228
1200NW★Gcm Development Inc ... +◎503.221.6200
★♣Holdings Llc ... 02◎503.226.8181
200★Intelligent Community Services Inc 02◎503.241.0315
690★JES & Sons Inc ... 96 503.243.6311
210★Kletra Corp ... + 503.223.6285
180★McGraw Hill Construction. 90 503.225.0200
200★Mechanical & Control Services Inc 04◎503.241.0315
★♣Moore Business Forms & Systems Divis 03 503.221.1533
130★Moore Wallace Inc ... +◎503.221.1533
★♣ MPG ... 93 503.699.6562
★♣ Omic USA Inc ... 97 503.223.1497
290★Oregon Beef Council ... 77◎503.274.2333
★♣ Oregon Grains Commission + 503.229.6574
★♣ Oregon Wine Advisory Board 91 503.229.8336
400★Oregon Winegrowers Association 90 503.228.8403
200★Rubensteins Contract ... 03 503.279.8636
470★Sea Resources ... + 503.227.6228
★♣ Siemens Business Services Inc + 503.241.8525
410★Soderstrom Architecture & Planning I 67 503.228.5617
550★The Rommel Architectural 90 503.227.5844
390★Transmarine Navigation Corp 86 503.242.3864
600★US Wheat Associates Inc . 83 503.223.8123
230★Wheat Marketing Center Inc 89 503.295.0823
1207★♣ Food Innovation Center. 00 503.872.6680
1466 Building
★Crescent Electric Supply Co 92 503.222.4000
200★Earthrise International ... 02 503.525.0100
★Interactive Composition Corp 98 503.221.9911
★Tex Users Group ... 98 503.223.9994

1650 Building
130★A A Groups ... + 503.223.8569
250★Benson Industries Inc. ... 77 503.225.7611
125★Blue Water Shipping Co .. 93 503.274.8944
★♣ Cargill Marine and Terminal + 503.221.7980
301★Downstream Llc ... 93 503.226.1944
220★Employees Assistance Services Enterp ... + 503.228.0415
150★Fritz Maritime Agencies .. 03 503.222.2847
120★Idex Solutions ... 03 503.295.1808
★♣ International Shipping Co Inc 97 503.226.7661
302★Kittelson & Associates Inc + 503.274.9000
★♣ Newton Bard Music & Sound Inc 89 503.273.2273
120★Northwest Cad Services Inc 03◎503.295.1808
304★Ocean Marine Agency. ... 89 503.223.7840
150★Officescape Inc. ... 03 503.790.0774
185★Research & Education Group The 01 503.229.8428
160★Turner Construction Co ... 03 503.226.8825
180★Working Spaces Pacific Oregon 00◎503.790.0774
1750
★♣ American Industries Inc + 503.222.0080
♣Dr Rick Baertlein MD ... 96 503.227.7562
★♣ Cargill Marine and Terminal + 503.221.7960
★♣Consumer and BS Services OR Dept 01 503.229.5910
200★Harris Group Inc ... 84 503.228.7200
112★Occupational Safety & Health Admin 02◎503.229.5910
100★Providence Occupational Health 86 503.227.5579
★♣ Rogers Terminal & Shipping 03◎503.221.7960
-NW FRONT AVE INTS
1800★♣ Ruby Communications Llc 01 503.233.1022
690 RESIDENCE 94 BUSINESS

● SW NAITO PKWY

CT 54.00 105 - 1020 $D
CT 57.00 1401 - 2828 $A
CT 59.00 0 3223 - 3419 $B
105 - 1020 97204
105★Precision Mailho ... 04 503.546.1165
★Precision Mailhouse ... 04 503.243.6119
111 Building
300★Bk Direct Llc ... 01 503.227.1437
600★Donald Darratt ... + 503.221.7907
★♣ Grant Wenzlick Attorney at Law 03 503.233.3363
305★RMC Management Group Llc 03◎503.227.1437
113★Bike Central Co Op ... 03 503.227.4439
117★Oregon Trout Inc ... 89 503.222.9091
★Salmon Watch ... 98◎503.222.9091
233★Alloyred ... 97 503.224.9811
★ICF Kaiser International .. 00 503.218.2789
★Rosen / Brown Direct Inc. . +◎503.224.9811
811 Building
420★Asset Exchange Inc ... 02 503.220.0006
410★Buckley Jerome B Jr ... 03 503.221.0611
410★Carney Buckley Hays & Marsh 03◎503.221.0611
410★Clarke Balcom Pc ... 04 503.231.8570
FL5★Clinton Street Llc ... 03 503.752.3342
500★Fishalot Llc ... + 503.223.4131
410★Flying Fish Inc ... 95 503.235.8210
410★Graystone Partners Llc ... 04◎503.221.0611
430★Integralconsulting Inc ... 03 503.284.5545
★♣ Kerr Pacific Commodities Inc 80 503.221.1233
500★Lisa J Ludwig Attorney at Law + 503.223.5570
★♣Lower Columbia River Estuary Program 99 503.226.1565
500★Parker Investments ... + 503.246.9435
200★Paulson Capital Corp ... 82 503.243.6000
500★Rainbow Rock Ranch Inc. 91◎503.248.9435
200★Sam Pieh Pc ... +◎503.223.4131
500★Schulte Anderson Downes 92◎503.223.4131
500★Schulte Anderson Downes Aronson and 03◎503.223.4131
200★Wayne M Hamersly ... 01 503.243.6050
833★Cpg Oregon Inc ... 91 503.220.0800
★Up Front Bar & Grill ... 90 503.220.0833
1020★Ilmn Investment Inc ... + 503.248.9710
★Tag Investment Corp. ... 02 503.708.7447
1401 - 2828 97201
1401★Allies American Grille ... + 503.499.6385
★Champions Sports Bar ... 93 503.499.6393
★Marriot Hotel ... 98◎503.499.6385
★Pge Parks ... 97 503.226.7600
★Portland Marriott Downtown 00◎503.226.7600
1881
100★Avalon Lakepark Llc ... + 503.248.0122
100★Campbell Planning & Development Serv 03 503.229.4449
★♣ Clear Pine Mouldings Inc 92 503.228.7361
★♣ Contact Lumber Co Inc. 77◎503.228.7361
♣Michael A Prill ... 01 NP
250★Signature Northwest Llc .. + 503.239.5941
100★The Avalon Holdings Group + 503.242.3625
2145 Building
FL1★Boy Scouts of America ... 97 503.243.5022
★Cascade Pacific Council Bsa 77 503.226.3423
★Learning For Life ... 00 503.225.5722
2804♣ Dan Roberti ... 04 503.228.7808
2828
♣Michael S Evans ... 03 503.241.5590
2828SW★Kennedy / Jenks Consultants 90 503.295.4911
★♣Professionals Insurance Network IN + 503.244.2121
155★Pronet ... 03 503.224.2121
0 3223 - 3419 97239
3223★Aurora Airfaire ... + 503.273.9190
★Finklea John W Architects 03 503.248.0617
3405 Sandra L Santoro ... 94● 503.223.2839
34150 Gary W Killingsworth ... 03 NP
◊ Lindy G Killingsworth ... 03 NP
3419 ... NP
7 RESIDENCE 54 BUSINESS

● SE NANCY CT

CT 222.04 9904 - 9964 $A
9904 - 9964 97266
-SE 99TH DR INTS
99040 Dr Robert E Forsyth Jr ... 94● 503.786.6908
9913 Susan J Park ... 91● NP
Thomas Y Park ... 91● NP
9914 Paul Richard Anuschat ... 96● 503.652.0095
Patricia L Brown ... 96● 503.652.0095
99230 Marc Lawrence Wells ... 96● 503.794.9302
◊ Patricia A Wells ... 98● 503.794.9302
99240 Karen R Wilson ... 77● 503.653.5284
◊ William F Wilson ... 77● 503.653.5284
9943 Rev Dennis E Perkins ... 82● 503.659.0229
Shirley Grace Perkins ... 82● 503.659.0229
99440 James M Garrett ... 77● 503.652.8298
◊ Judith F Garrett ... 77● 503.653.5021
9963 Charles R Zwick ... 77● 503.659.4490
Jason C Zwick ... 77● 503.659.4490
9964 Joan D Bright ... 92● 503.659.0277
Laurence R Bright ... 92● 503.659.0277
17 RESIDENCE

● NW NAOMI LN

CT 315.10 12554 - 12736 $A
12554 - 12736 97229
12554 ... NP
12561 Rajeev Kapur ... 04● NP
Reshma Lal ... 04● NP
12572 ... NP
12590 Lakshmikant K Choudhury .. +● NP
Umakanta Choudhury ... +● NP
12604 Sangay Dorjee ... +● NP
ASA Zelling ... +● NP
12615 Jeana E Randall ... +● NP
Lawrence L Randall ... +● NP
12620 Jeff Scott Carlascio ... 00● NP
Lisa Aileen Carlascio ... 00● NP
12633 Mohammed A Sami ... +● NP
Shazia A Siddiqui ... +● NP
12636 Julie W Buchan ... 04● NP
Neil M Buchan ... 04● NP
12645 Jacqueline I Nintunze ... 02● NP
Novat S Nintunze ... 02● NP
12652 Kip Cary Anderson ... +●503.617.9388
Sara Anderson ... +●503.617.9388
12659 Amy M Driban ... +● NP
12670 ... NP
12688 Annamalai U Patra ... 02● NP
Priyadarsan Patra ... 02● NP
12710 Jeffery S Grant ... +● NP
Katrin E Grant ... +● NP
12726 ... NP
12736♣ Aaron P Frechette ... 04● NP
♣ Corinne M Frechette ... 04● NP
29 RESIDENCE

● SE NASE CT

CT 208.00 3565 - 3586 $C
3565 - 3586 97222
-SE 35TH AVE INTS
3565★♣Dale Jamtgaard ... 90 503.654.0237
Dale E Jamtgaard ... 82●503.654.0237
Patricia O Jamtgaard ... 82●503.654.0237
3575 John F Kenny ... 76●503.653.0569
May A Kenny ... 76●503.653.0569
3576 Karen S Kosmas ... 88● NP
Thomas J Kosmas ... 88● NP
3585 Richard C Urquhart ... 93● NP
3586 Beverly J Gifford ... 98● NP
Ronald D Gifford ... 98● NP
9 RESIDENCE 1 BUSINESS

● N NASHTON ST

CT 41.02 6838 - 6951 $E
6838 - 6951 97203
-N GILBERT AVE INTS
6838 David F Christian ... 79●503.286.2925
Marian E Christian ... 79●503.286.2925
★Spinning Wheel Tavern .. 88 503.286.1501
-N MIDWAY AVE INTS
6929 Teresa King ... + 503.289.0943
6935 6941 ... NP
6946 Jill A Corona ... 02● NP
Joseph R Corona II ... 02● NP
6947 Daniel B Greenfield ... 02● NP
6951 Cyndra L Moon ... 04 NP
Derrick D Moon ... 04 NP
10 RESIDENCE 1 BUSINESS

● NE

CT 57.00 4515 - 7300 $A
4515 - 7300 97251
4515♣★ Hair by Sara Van Houten 03 503.422.7141
7300♣★ Connie Swenson ... 04 503.997.9477
2 BUSINESS

● NW NEAKAHNIE AVE

CT 315.04 E 4940 - 5500 $B
E 4940 - 5500 97229
-NW MALHUER AVE INTS
4940 Clifford S Croskrey ... 95●503.645.4063
Helen R Croskrey ... 95●503.645.4063
★Haley Investments Inc ... 04 503.645.4063
5100★Rock Creek Club & Grill .. 77 503.645.8843
★Rock Creek Country Club Golf Shop 03 503.645.1101
5140 Apartments
40 Nancy M Callahan ... 94●503.645.3369
55 Rob G Holbrook ... 97 503.533.8079
65 Elizabeth C Huber ... 99●503.617.9000
54 A Jones ... 98● NP
54 Victoria A Jones ... 98● NP
59 John Krueger ... 99●503.617.9000
50 Barbara Ann Rogers ... + NP
58 Lahni M Skinner ... 95● NP
51 Justin J Villeda ... 98● NP
56 Alana Yorba ... +● NP
56 George Yorba ... +● NP
5150
37 Antony C Anderson ... 94● NP
39 Adelbert J Bennett ... 03● NP
39 Vivian R Bennett ... 03● NP
46 Dorothy Cecile Bright ... 94●503.645.1840
46 Roy Edward Bright ... 94●503.645.1840
42 Richard E Callender Jr ... 83● NP
42★Callender Group ... 94 503.629.8100
47 Anne E Goetz ... 00 503.690.6070
48 Peter Ito ... 03● NP
43 Emma Jean May ... 00● NP
3 Renae H Reynolds ... 01 NP
41 Sharon A Whitlow ... 89● NP
5160 Apartments
♣Mark Anderson ... 03 NP
30 Amy S Bensel ... 88●503.645.2913
35 Sharon L Chianello ... 93●503.690.2998
♣Tim Evans ... 02 NP
32 Alice C Fosse ... 96● NP
33 Kitty E Kampler ... 94●503.629.5703
34◊ Julia Blaine Miller ... 89●503.617.0672
29 Peter A Rosenau ... 04 503.531.9757
36 Mary Ellen Washkoske ... 02● NP
5170 Apartments
8 Thomas Gabrysch ... 94 503.614.0509
6 Richard W Harbour ... 88●503.690.6573
2 Kendall J Holtz ... 03● NP
1 Keri D Hughes ... 92●503.690.3851
1 Nancy C Hughes ... 92●503.690.3851
7 Cynthia M Jaynes ... 03● NP
5 Jean L Maindelle ... 89●503.645.3478
♣Jessica J Parker-Cuevas ... 02 NP
4◊ Rex D Savage ... 93● NP
5180 Apartments
2 Brian E Bauer ... 93 NP
24 Noelia B Borges ... 93● NP
24 Tony C Borges ... 93● NP
28 Charlene M Ering ... 02● NP
27 Kathleen B Ladu ... 96● NP
26 Walter E Leyland ... 00● NP
22 Matthew Rude ... + NP
5190
12 Robert E Allen ... 03● NP
20 Florencio Bermudez ... + NP
18★Dan & Junebeaders Creations 99 503.641.5224
16 David A Dayley ... +● NP
10 Jerry L Harris ... +●503.466.9643
10 Judith E Harris ... +●503.466.9643
11 Jerome George Lang ... 91●503.645.1184
14 Shirley Marie Mason ... 96 503.533.7945
15 Molly A Miller ... + NP
9 Darrel Rehbein ... 03●503.645.9639
13 Anna Mae Scherrer ... +● NP
9 Patti Marie Vaughn ... 03●503.645.9639
18 Daniel L Venzke ... +● NP
18 June M Venzke ... +● NP
-NW QUAIL HOLLOW DR INTS
5370 Emil A Boscacci ... 99 NP
5390 Edward P Little II ... 97●503.645.5185
5400 Jaye D Lehmann ... 01● NP
5420 Lori S Griswold ... + NP
Mike J Griswold ... + NP
5430 ... NP
5450 Joan Forter ... 03 503.531.9861
5480 Chris Powell ... + 503.531.0368
Mary C Powell ... + 503.531.0368
5490 Janna C Roscrans ... 00● NP
5500 ... NP
73 RESIDENCE 5 BUSINESS

● NEAR LLOYD CTR

CT 57.00 $A
.... 97251
★♣ Ariana Orton Lmt ... 03 503.402.1116
1 BUSINESS

● SW NEBRASKA ST

CT 59.00 0206 - 0618 $B
CT 67.02 1907 - 3239 $B
CT 67.01 5031 - 5941 $C
0206 - 3239 97239
0206 Susan J Mayer ... +●503.245.4614
0214 ... NP
0217 Joe B Donnenberg ... +●503.293.8315
Lyndsey M Donnenberg ... +●503.293.8315
0221♣ Kerry Kipps ... 02 NP
0225 Alan J Fryer ... 02●503.892.2970
0226 John M Dunn ... 01●503.245.1425
Kay Bell Dunn ... 01●503.245.1425
0232♣ Clark A Dodson ... 92 NP
0235◊ Barbara J Nuszbaum ... 50●503.246.7011
0240★Jehovahs Witnesses 03 503.246.8887
★Willamette Park Congregation of Jeho 03 503.245.7195
0245◊ Amanda G Jacobson ... 95● NP
◊ Gail K Jacobson ... 95● NP
0301◊ Robert W Ericksen ... 02●503.245.9741
0302 Douglas G Claudet ... 00● NP
0312 ... NP
0315 Aaron D Gorin ... 02 503.892.8283
0322 Scott D Grimes ... 96●503.244.0938
0325 Rebecca L Jones ... +●503.245.0248
0333 0338 ... NP
0344♣ Kelly Concannon ... + NP
♣ Sarah M Fahey ... + NP
0347 Brenda Stowe ... 02 503.223.8936
0401 Joan R Banks ... 71●503.244.9343
Matt A Banks ... 71●503.244.9343
04080 Carolyn A Blackmore ... 50●503.452.0484
◊ Glenn U Blackmore ... 50●503.452.0484
0512 Steve H Borgen ... + 503.246.4071
0513 Paul K Kami ... 94 NP
Harrison Pang ... 94 NP
0516 ... NP
0517 Cheryll Dumpit ... + 503.892.2763
0520 0521 ... NP
0528 Kristen T Guevara ... 03 503.228.8512
★The Furry Godmother Pet Services 03 503.228.8512
0536 0538 ... NP
0603 Tarehna E Wicker ... 03 NP
0605★Gen X Bears International + 503.481.3920
0608★Adhesive Signs Co ... 91 503.244.8400
★Badge Print Co ... 90 503.245.7896
★Myers Inc ... 04◎503.244.8400
0618★Fulton Pub & Brewery ... 91 503.246.9530
★McMenamins Pubs ... 04◎503.246.9530
1907♣ Gail Weintz ... 04 503.260.2139
1934 ... NP
1936 Paul John Costantino ... 88 503.244.1723
1942 Roy G Rettin ... + NP
1946 Bruce E Ritchie ... 03 NP
1948 Elysia Schiler ... + NP
2301 Building
105TH★♣ Seaport Tire Co Inc ... 03 503.257.9750
2355♣ B Nutbrown ... 02 NP
2402 Janice H Hoffman ... 02●503.977.9292
L Robert Hoffman ... 02●503.977.9292
2403
17★Apollo Basketball Camp Inc + 503.246.7163
15♣ Sheila Golden ... +●503.245.4050

$PORTLAND

♣Donald Grahs
18♣ Dale K Grigg
106 Ben Z Gilds
109 Apartments
16 Sarah Adam
♣ Dale Caswe
12♣ Edward D. C
18♣ Laura Elizat
11♣ Kevin C Low
11♣ Sara S Love
7♣ Josiah Pfan
9♣ Kathleen M
Deann Hog
Mike G Ho
Michael Ho
207 Apartmen
3♣ Jessica L
4♣ Ronald R
6♣ Mitch J Mil
5 J S Taylor
1 Jeffrey W
1 Yng Jen
Eunwoo W
Grung M
Craig Jea
Nechama
♣ Mike Ada
Jennifer
Phillip Jo
Jerry L B
Trudy Da
Bita Epel
Yevgeniy
Ellin D
Lynn D
Deborah
Jayne A
Lance C
Kimber
Paul D
Evelyne
Unoda
Kennet
Bob W
Conne
Carol
Franc
Suzan
Jacke
Marh
Trick
5050 Buil
240♣★ C
Jodi
Dav
Eliz
Tim
Jan
Ro
Shi
Me
T
♣ Ja
♣ M
B
K
♣ G
D
J
N
5241
5242
5255
74TH★
5313
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5327
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5345
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5411
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TP	Adjoining	Source
-	✓	Cole Information Services

NW RALEIGH ST 2005

SE RAELYN TER

14206 ..... NP
2 RESIDENCE

SE RAILROAD AVE

CT 211.00 0 4217 - 5525 $D

0 4217 - 5525 97222

-SE 45TH AVE INTS
4217 4225 ..... NP
4423 Ben Endo ..... 96 • 503.654.3521
Kay Endo ..... 96 • 503.654.3521

-SE 48TH AVE INTS
4815 Apartments
11 Lorraine Merritt Estey ..... 01 NP
11 Richard L Estey ..... 01 NP
10 Francine G McGaughy 02 503.786.8198

-SE WOOD AVE INTS
4935 Apartments
♣Rick S Cervantes ..... 02 NP
17 Ben R Duncan Jr 03 503.654.7672
17 Concepsion M Duncan 03 503.654.7672
16 ♣ Jaclyn Herrick ..... + NP
15 ♣ Jeffery Herrick ..... + NP
♣Marilynn Leavenworth ..... 02 NP
14 Sandra L Taylor ..... + NP

-SE STANLEY AVE INTS
55170 Debra Elaine Nuding ..... 84 • 503.654.6477
◊ Raymond Virgil Nuding ..... 84 • 503.654.6477
5525 Doris L Bowe ..... 63 • 503.654.5864
Edward D Bowe Jr ..... 63 • 503.654.5864
18 RESIDENCE

SE RAINBOW CIR

CT 210.00 9101 - 9177 $D

9101 - 9177 97222

-SE RAINBOW LN INTS
9101 Anne F Harvey ..... 03 • 503.653.6986
Rick Dana Harvey ..... 03 • 503.653.6986
9102 Jose Delacruz ..... 92 • 503.653.3946
Myran Delacruz ..... 92 • 503.653.3946
9145 Carrol J Medley ..... 98 • NP
9176 Bruce G Meyer ..... 95 • 503.654.9667
9177 Jennifer Newcomb ..... 00 • NP
Joseph E Newcomb ..... 00 • NP
8 RESIDENCE

SE RAINBOW LN

CT 210.00 4925 - 5476 $D

4925 - 5478 97222

-SE REGENTS DR INTS
4925 Jerry E Roley ..... 94 • NP
4935 Clinton Marvin Helvey ..... 67 • 503.654.4904
Joyce A Helvey ..... 67 • 503.654.4904
4981 Richard E Crandall ..... 03 • 503.653.1687
Theresa E Day ..... 03 • 503.653.1687
4986 Betty Marie Dubose ..... 92 • NP
5012 Cynthia M Truitt ..... 82 • 503.659.3106
Damon A Truitt ..... 82 • 503.659.3106
5015 Colleen A Nisbett ..... 97 • NP
Robert Lee Nisbett ..... 97 • NP
5025 Adam Owens ..... 04 • NP
5035 Duane A Benson ..... 88 • 503.654.8490
Sandra L Benson ..... 85 • 503.654.8490
★Titus II Ministry 83 503.654.8490
5044 Kirk Alan Gruenenfelder ..... 80 • 503.653.0316
5066 Heather Marie Redfield ..... 02 • 503.659.8855
5073 Yvonne Silvernagel ..... 04 • 503.786.6798

-SE BROOKSIDE DR INTS
5115 Billy J Clark ..... 00 • 503.353.0401
Christie A Clark ..... 00 • 503.353.0401
5125 ♣ Jim Anthony Walsh 03 503.659.1915
♣ Lori Maria Walsh 03 503.659.1915
5126 Charles A Jackson ..... 98 • 503.513.0235
5135 Greg A Moore ..... 82 • 503.659.3312
Wendy Ann Moore ..... 82 • 503.659.3312
5177 Theresa A Betts ..... 82 • 503.659.8090
5192 R Iijima 03 503.659.5420

-SE WINSOR DR INTS
5226 ★ Blue Ribbon Landscape Maintenance
93 503.786.1590
Mychal Lombard Wolf ..... 92 • NP
Randolph John Wolf ..... 92 • NP
5236 ♣ Karon Anderson ..... 03 • NP
5301 Sean Iverson ..... 02 NP
Tamieko Iverson ..... 02 NP
5322 Annette L Iverson ..... 99 • 503.659.9173
Richard L Iverson ..... 99 • 503.659.9173
★Oregon Tackie Mfg Inc ... + 503.777.4021
5353 Kelli R Salmons 98 503.794.9061
Shelby R Salmons 98 503.794.9061
5384 Marcelo J Jimenez ..... 03 • 503.786.2927
Rebecca Jimenez ..... 03 • 503.786.2927
5397 ★ Flett Brothers Painting Inc 80 503.654.5786
5429 Logan Hendershot 01 503.513.0761
5466 Martha S Bailey ..... 71 • 503.654.6039
Terry W Bailey ..... 71 • 503.654.6039
5476 Denis M Flues ..... 94 • 503.652.1642
Nick A Flues ..... 94 • 503.652.1642
41 RESIDENCE 4 BUSINESS

NW RAINIER AVE

CT 71.00 19530 - 19600 $A

RR5 19530 - 19600 97231

-NW CLEETWOOD AVE INTS
19530 Lola J Rust ..... 82 • 503.621.3655
Ronald G Rust ..... 82 • 503.621.3655
19626 ◊ Michael A Gatrell ..... 82 • 503.621.3934
◊ Margaret A Walter ..... 82 • 503.621.3934
19733 Valerie A Underhill 03 503.621.9631
19739 James O Thorud ..... 72 • 503.621.3356

-NW MORGAN RD INTS
19800 ◊ Ricki White ..... 03 • 503.248.9670
◊ Ricki Patrick White ..... 03 • 503.248.9670
8 RESIDENCE

NW RAINIER TER

CT 46.01 E 408 - 408 $A
CT 315.10 4623 - 4889 $A

E 408 - 408 97210

-NW MONTE VISTA TER INTS
4080 Louise R McGregor ..... 93 • 503.224.6960

4623 - 4889 97229

4623 Maddalen Rene Biggs ..... 99 • 503.466.4900
Todd Matthew Biggs ..... 99 • 503.466.4900
4661 Amit Kumar ..... 01 • 503.531.3517
Kirti Kumar ..... 01 • 503.531.3517
4694 ..... NP
46990 Amy L Brinkerhoff ..... 01 • 503.690.0334
◊ Russell Marvin Brinkerhoff ..... 01 • 503.690.0334
4737 Germaine A Sather ..... 01 • NP
Jeffrey David Sather ..... 01 • NP
4742 Inki Hong ..... 03 NP
Yeun L Hong ..... 03 NP
4775 Amit T Jain ..... 99 • 503.531.2786
★Sochtek Inc 04 503.531.2786
4780 Eric T Christian ..... + • NP
Tracy H Christian ..... + • NP

-NW SKYCREST PKWY INTS
4813 Beverly Ann Wagner ..... 97 • 503.533.4697
Rick Wagner ..... 97 • 503.533.4697
4818 Brad Waddell Burnett ..... 94 • NP
Nancy L Burnett ..... 94 • NP
48510 George I Azumano ..... 97 • 503.533.4892
◊ Natsuko Azumano ..... 97 • 503.533.4892
4874 Anand Pashupathy ..... 97 • 503.645.9454
Kalla M Pashupathy ..... 97 • 503.645.9454
4889 Arjun Um Chatrath ..... 97 • NP
Myung Kim Chatrath ..... 97 • NP
28 RESIDENCE 1 BUSINESS

NW RAINMONT RD

CT 70.00 10427 - 10512 $A
CT 315.08 10731 - 11305 $A

10427 - 11305 97229

10427 Bagepally R Raghunathan ..... 93 • NP
Lalitha B Raghunathan ..... 93 • NP
10430 Steve L Campbell ..... 03 • 503.291.1043

-NW MILL POND RD INTS
10509 ★ Amato & Johnson 01 503.291.5285
★Amatojohnson Home .... 03 • 503.291.5285
Pamela N Johnson ..... 97 • 503.291.5285
Warren M Johnson ..... 97 • 503.291.5285
10512 Seema Sharma ..... 00 NP

-NW 111TH AVE INTS
10731 Denise Ann Christensen ..... 98 • 503.672.7574
Ward O Christensen ..... 98 • 503.672.7574
10740 ..... NP
10745 David R Gronlich ..... 02 • 503.466.1222
Gabriella Y Tyer ..... 02 • 503.466.1222
10759 Michael David Woodruff ..... 99 • NP
Michelle Woodruff ..... 99 • NP
10770 Rodney Lee Christison ..... 02 • NP
10777 Margilta Dolgos ..... 01 • NP
Stefan Dolgos ..... 01 • NP
107800 Donald Leroy Cook ..... 73 • 503.643.3484
◊ Stacia A Cook ..... 73 • 503.643.3484
10820 ◊ Virginia E Milligan ..... + • NP
◊ Wesley L Milligan ..... + • NP
10870 Kathleen N Frutiger ..... 93 • NP
Michael L Frutiger ..... 93 • NP
10875 Donna S Martinson ..... 92 • NP
Roy Kahler Martinson ..... 92 • NP
10925 James Thomas Baker ..... 84 • 503.646.1305
Tamas N Baker ..... 84 • 503.646.1305
10930 David Hendee Smith ..... 94 • 503.641.8175
Patricia A Smith ..... 94 • 503.641.8175
10945 Herbert Howard 03 503.469.9016
10950 ◊ Rosemary M Deservo ..... 85 • 503.643.0699
◊ Thomas R Deservo ..... 85 • 503.643.0699
10965 Stefan H Berg ..... 03 • NP
10970 ♣ Christine Eidson ..... + • NP
♣ David Eidson ..... + • NP

-NW 113TH AVE INTS
11130 Craig P Mclaughlin ..... + NP
MIA E McLaughlin ..... + NP
11145 Patricia A Kauffman ..... 62 • 503.644.6156
★Pattis Ponderings 96 503.644.6156
11160 Enrico G Lenzer ..... 87 • 503.672.9442
Steve Carl Lenzer ..... 87 • 503.641.4298
11175 Ronald C Fritzler Sr ..... 72 • 503.646.7707
112500 Geralyn J Larkin ..... 91 • 503.671.9307
◊ Dan W Salzer ..... 91 • 503.671.9307
11265 Lisa A Pruett ..... 94 • 503.643.2324
Michael A Pruett ..... 94 • 503.643.2324
11305 ♣ Harris C Kimble ..... 98 • NP
45 RESIDENCE 3 BUSINESS

SE RAINTREE CT

CT 214.00 14622 - 14844 $C

14622 - 14844 97267

-SE HAGER LN INTS
14622 ..... NP
14633 Alice M Crabb ..... 68 • 503.654.3084
14664 ★ Crescent Mortgage 03 503.659.4348
Douglas A Jones ..... 98 • 503.659.4348
Vickey Jones ..... 98 • 503.659.4348
14665 Lorraine V Frisbie ..... 98 • NP
147360 Betty Shaner ..... 69 • 503.654.1217
◊ Ellis Bryan Shaner ..... 69 • 503.654.1217
14739 Kathleen G Ball ..... 98 • 503.786.4844
14751 Beverly J Zahn ..... 94 • 503.654.7517
Louis E Zahn ..... 94 • 503.654.7517
14758 David A Watkins ..... + • NP
Michelle Watkins ..... + • NP
14760 Louise M Lenczowski ..... 95 • NP
14763 ★ Kathleen Robinson ..... + 503.794.0189
Jamesr Orton ..... 04 NP
147720 Jerry L Ham ..... 82 • 503.654.7255
◊ Lillian W Jordan Harn ..... 82 • 503.654.7255
14775 James Randolph Duncan ..... 78 • 503.653.6250
Nancy D Duncan ..... 78 • 503.653.6250
14784 Leslie Pullen Romanio ..... 97 • NP
Nick Allen Romanio ..... 97 • NP
14826 Roberta Rae Hounet ..... 86 • 503.653.5634
14838 Darlene G Kenyon ..... 93 • NP
Leo H Kenyon ..... 93 • NP
14839 Kenneth Keith Koch ..... 90 • 503.786.9151
148410 Glenda M Anderson ..... 96 • NP
◊ Dr Howard J Anderson MD .. 96 • NP
14844 Joseph P Sawyer Sr ..... 83 • 503.653.5326
Linda Lee Sawyer ..... 83 • 503.653.5326
★Sawyers Freedom Refinishing Service
+ 503.653.5326
28 RESIDENCE 3 BUSINESS

SE RAJESSA CT

CT 98.03 17402 - 17438 $D

17402 - 17438 97236

17402 ..... NP
17405 Jolena Kay Graves ..... 01 • NP
17414 Simon Ho ..... 01 • 503.761.7436
Wing Hong Ho ..... 01 • 503.761.7436
174170 Bryn D White ..... 01 • NP
◊ Ted White ..... 01 • NP
17426 Michael Francis Cunneen ..... 01 • 503.762.0758
17429 Judy Yu 01 503.761.2964
17438 Alexander Polashov 01 503.761.2368
9 RESIDENCE

NW RALEIGH ST

CT 51.00 E 1350 - 1350 $A
CT 50.00 1400 - 1965 $A
CT 49.00 2170 - 2382 $B
CT 47.00 2409 - 2979 $A
CT 45.00 3407 - 3509 $A

1350 - 1965 97209

-NW 14TH AVE INTS
1350 ★ Benson Industries Llc ... 77 503.226.7618
★Steven E Benson ..... + 503.226.7618
★T A Onchi Llc 99 503.228.2509

-NW 15TH AVE INTS
1400 ★ Auto Wheel Service Inc .. 77 503.228.9346

-NW 17TH AVE INTS
1625 ★ Portland Auto Care Co ... 03 503.274.2812
★Security Towing & Recovery 04 • 503.274.2812
1722 Building
★by Design ..... + 503.525.4335
★Communication Together. + 503.224.2820
★Duvinci Inc ..... + 503.241.5913
113 ★ Expreza 84 503.226.4343
102 ★ Holden Apparel ..... + 503.522.6587
★Moore Impact Design 03 503.221.4868
211 ★ North West Needs ..... 93 • 503.228.4343
★Rocketbooks ..... + 503.224.4744
★Snapshot Group ..... + 503.228.9440
★Wetsel Partners Ltd ..... + 503.223.1227

-NW 20TH AVE INTS
1935 Apartments
♣ Leigh Rosenzweig ..... 02 NP
3 Jennifer Sawyer ..... + NP
1936 Apartments
1 Bamt I Blomgren 02 503.243.7950
1 Lilla E Blomgren 02 503.243.7950
4 Cyan Bolt ..... + 503.241.6093
2 Katharine A Rudden 99 503.294.7117
3 Cody Williams 04 503.248.1679
1945 Pam Nolan ..... 02 • 503.274.0723
Raymond P Nolan ..... 02 • 503.274.0723
1955 Apartments
1 Sara V Davis 98 503.223.0177
3 Hanna Krueger ..... + NP
3 Matt L Krueger ..... + NP
1965 Apartments
2 ♣ Cynthia Leigh Kohl ..... 99 NP
1 ♣ Daniel W Pasley ..... + NP
♣ Michael Schulz ..... + 503.223.3673
♣ Cathy Welch ..... 00 NP

2170 - 3509 97210

2170 ★ Cnf Services 03 503.450.3196

-NW 23RD AVE INTS
2219 ★ Framing Solutions 87 503.227.6325
★Katayama Framing 90 503.224.3334
★KFS Limited ..... + ◊ 503.224.3334
2222 Building
B ★ Cnf 00 503.450.3196
★Geo A Morlan Plumbing & Appliance Co
03 503.224.7000
★JB Industrial Sales Llc ... 03 503.224.2797
★Plumbing Design Center . 03 • 503.224.7000
★Properties Llc ..... + 503.274.4222
2237 ★ Plait Lithograph Co 00 503.223.2291
★Standard Printing Inc.... 04 503.479.6625
★Stndrd Printing & Stndrd Accounting
01 503.661.2323
2257 ★ Stark Raving Theatre 03 503.232.7072
2274 Building
★♣ Golden Needle Acupuncture Clnc + 503.274.4222
2 ★ Nails 2000 ..... 01 503.224.1149

-NW 24TH AVE INTS
2305 J Pomeroy ..... 88 NP
2311 ..... NP
23130 Robert W Curry 96 503.223.4713
2315 John Adams Morrison 94 503.279.8376
2319 John Holzwarth ..... + 971.544.1934
2330 ★ Tandor Corp 92 503.248.0711
2352 Apartments
1 ◊ Louise Louise Pollock ..... 01 • 503.916.0029
1 ◊ Walter Eugene Pollock II ... 01 • 503.916.0029
2356 Apartments
Francisco Corella ..... 00 • 503.243.1735
Karen P Lewson ..... 00 • 503.243.1735
2 Karen P Lewson ..... 03 • NP
2360 Apartments
3 Jeffrey W Karpen ..... 02 • NP
2364 Apartments
4 Kathy Lynn Calkins ..... 01 • 503.224.2480
4 Mark Dennis Calkins ..... 01 • 503.224.2480
2370 Apartments
6 Christopher P Vice ..... 03 • 503.295.3705
6 Kristi H Vice ..... 03 • 503.295.3705
2374 Apartments
5 Ilene Nessenson ..... 01 • 503.796.1824
2378 Apartments
11 Kathrin Pfeffer ..... 03 • NP
2382 Apartments
7 ◊ Barry S Russman ..... 02 • 503.219.9180
7 ◊ Penny Anne Russman ..... 02 • 503.219.9180

-NW 25TH AVE INTS
2409 ..... NP
2417 Betty E Munch ..... 86 • NP
2424 Katherine L Cobb ..... 96 • 503.274.4233
24250 Donald J Long Jr ..... 95 • 503.224.6478
◊ Kathy Long ..... 95 • 503.224.6478
2437 Jill Michalisko ..... 00 • 503.226.7353
Robin S Michalisko ..... 00 • 503.226.7353
2440 Darcy Hagin ..... + 503.228.5655
Darcy K Hallock ..... + 503.228.5655
2445 ★ Alfred Fleckenstein Eaitc. + 503.223.0123
Alfred C Fleckenstein ..... + • 503.243.5035
Nina M Hoashi ..... + • 503.223.0123
★Lone Tree Development Co 99 • 503.223.0123
2450 ..... NP
2455 Thomas C Sponsler ..... 94 • 503.227.0414
Virginia Sponsler ..... 94 • 503.227.0414
★Virginia M Sponsler LCSW 95 503.790.2275
2456 Lynn E Hayden ..... 03 • 503.274.2291
Steven R Hayden ..... 03 • 503.274.2291
2482 Teresa Lynn Dowsett ..... 97 • 503.916.8436
2485 Apartments
103 Karine Furber 01 503.224.9579
103 Matt Furber 01 503.224.9579
1050 ◊ Kimberly A Opitz 90 503.243.2268
207 Jordan Otis ..... + 503.796.9992
205 Serafin Pineda Jr ..... + NP
♣ Keith Alan Pitt ..... 01 NP
107 Kurt Radtke 01 503.224.4621
106 F C Rystallsson ..... 01 NP
♣ Erik Schroeder ..... 02 NP
♣ Scott Tineken 03 503.227.1758
1000 ◊ Richard C Westberg ..... 93 NP
200 Nicole Yetz ..... + 503.227.5645
2470 Frank E Fancher ..... 99 • 503.241.2702
Mary A Fancher ..... 99 • 503.241.2702
2475 ..... NP
4 ★ Adorn Studio Llc ..... + 503.617.9323
4 Sarah T Amaral ..... 98 NP
2 Vincent Firpo ..... 02 NP
24800 Vern Cleve Luce ..... 00 • 503.228.7940
◊ Catherine J Paglin ..... 00 • 503.228.7940
24860 Kathryn A Labadie ..... 83 • 503.436.2735
◊ Matthew L Labadie ..... 83 • 503.248.0270
2489 Martha Leah Zaklan ..... 97 • 503.241.3486
Stanley Lance Zaklan ..... 97 • 503.227.4294

-NW 26TH AVE INTS
2503 Apartments
305 Peter Andrews ..... + NP
205 Sarah A Carbery ..... 02 NP
303 Leslie Grove 01 503.223.5024
304 Chris Johnson 00 503.294.0332
202 Jeremy Selnar 02 503.241.3708
D Stein 02 503.248.1077
103 Fernando Torres ..... + 503.241.4396
2515 ..... NP
2617 Jan Hegner ..... 01 • NP
2525 ..... NP
2535 James M Cook ..... 01 • NP
Kayley W Cook ..... 01 • NP
2543 Carol T Scalpone ..... 84 • 503.222.1339
Stephen James Scalpone .. 84 • 503.222.1339
25550 Gary J Turner ..... 95 • 503.224.1897
◊ Gillian J Turner ..... 95 • 503.224.1897
2565 Shannon Anderson ..... + NP
2567 Mark D Lillegard ..... + 503.226.6316
2575 ..... NP
2577 Judson Blaine 01 503.279.8689
Matt Judson Blaine 01 503.279.8689
2585 ♣ F I Sagan ..... 94 NP
2587 ♣ M D Lafrenz ..... + 503.241.4321
2621 Apartments
2 Sarah E Ayers ..... 02 NP
♣ Roderick Bailey ..... 03 NP
18 H Baxter 03 503.248.9595
♣ J Blanco ..... 02 NP
24 Patrick M Conlon 98 503.279.9178
18 Heather D Everett 03 503.248.9595
29 Pamela J Freedman ..... + NP
30 Susan Glanoth ..... 00 NP
24 Scott P Hadden 98 503.279.9178
22 Cynthia L Hartman 00 503.274.0775
22 Glen T Hartman 00 503.274.0775
39 Y Hershkovich ..... 04 NP
21 Michele E Kline ..... 01 NP
120 Olivia Lopez ..... 00 NP
♣ Tom Nolan ..... 02 NP
25 Jamie Pastor ..... + 503.227.0445
♣ Brisa E Peters ..... 02 NP
33 Kevin Raiton ..... 02 NP
♣ Tony G Rasmussen ..... 02 NP
23 Michael Andrew Rounds ..... + NP
37 Deborah G Sesa ..... 02 NP
2200 Strobel 97 503.916.8184
200 Michelle A Strobel 97 503.916.8184
31 Daniel L Webb ..... 03 NP
31 Thomas L Webb ..... 03 NP
2653 Allen E Johnson ..... 90 • 503.220.8277
Elizabeth L Johnson ..... 90 • 503.220.8277
2657 ..... NP
2665 Steve A Lolich ..... 88 • 503.223.6496
2667 Joani Stovall 02 503.241.0040
Scott Stovall 02 503.241.0040
2673 Simone Margaret McKenzie. 97 503.525.9566
2683 Alleyn E Yasskin ..... 01 • 503.241.0370
★Yasskin Alleyn Designs .. 02 503.241.0370
2687 ..... NP

-NW 28TH AVE INTS
2703 Dun Gifford ..... + 503.274.7338
27120 David T Belusko ..... 50 • 503.223.2241
◊ Mary Colette Belusko ..... 50 • 503.223.2241
2724 Marina M Ramis ..... 97 • 503.223.2375
Timothy V Ramis Atty ..... 97 • 503.223.2375
2725 Gertrude J Burnett ..... 92 • NP
Joan Z Burnett ..... 92 • NP
27260 Ronald Sandis Manoogian .. 00 NP
2727 Mark P Bridges 01 503.226.0605
Melody Bridges 01 503.226.0605
2736 Apartments
1 Mark Bell ..... 03 • 503.227.8373
27370 Laura J Chang ..... 97 NP
2738 Apartments
2 Mark E Bell ..... 01 • NP
2745 Livia E Castrucci ..... 99 • 503.281.5221
Matthias Nitschke ..... 99 • 503.231.5221
27460 Clifton J Holland ..... 03 • 503.241.8626
◊ Laurie Lee Holland ..... 03 • 503.241.8626
2747 ..... NP
2756 Anne E Davidson ..... 94 • 503.227.7442
Martin L Davidson ..... 94 • 503.227.7442
2757 2764 ..... NP
27650 Jeanette M Martin ..... 74 • 503.222.1482
◊ Kenneth S Martin ..... 74 • 503.222.1482
27740 Grant K Higginson ..... 83 • 503.243.2382
2775 ..... NP
2785 Alfred R Clark Jr ..... 94 • 503.220.0057
Reed A Clark ..... 94 • 503.220.0057
2787 ..... NP
2788 Mauricio Carvajal ..... + 503.241.6481

-NW 29TH AVE INTS
2805 ..... NP
2808 Irene Ettinger ..... 96 • 503.228.3402
2814 E Eddra ..... 96 • 503.525.8257
28150 Christine M Lolich ..... 56 • 503.223.8903
◊ John P Lolich ..... 56 • 503.223.8903

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CT - Census Tract AB,Etc. - Census Tract Home Value Rating ★ - Business Listing ⊙ - Duplicate Phone Number At This Business Address ◊ - No Mail Solicitation

A BREED APART
1211 S.W 5th AV., 24th FLOOR PHONE 221-4600

NE 13TH AV—Contd
5028 Garner Alex ◎ 284-5633
5029 Barton Lorraine L Mrs
5034 No Return
5035★Edwards Donald L 284-1499
5044 Killmon Wm 249-0349
5045 Winter Douglas W ◎
5050 Jenkins Josephine Mrs ◎
5051 Burch Lillian M Mrs
NE WEBSTER ST INTERSECTS
5112 Archer Betty M
5121 Nesbit Harry L 282-7545
5122★Grear Linda 284-3600
5128 Behrs J M 284-0218

150
NE WEBSTER ST INTERSECTS
NE SUMNER ST INTERSECTS
5210 White Opal M 284-8122
NE ROSELAWN ST INTERSECTS
NE EMERSON ST INTERSECTS
5312 Emerson Plaza Apartments
A Joseph Harry 288-1635
B Lewis L 281-0210
C★Jones Geo L 284-0566
D Griffith Willis D
E Kirby Ernest W
F★Ford Kenneth 282-1929
G Vacant
H Coleman Governor R
5314 Emerson Plaza Apts
I Al-Hassan Albert
J Berry L 281-5658
K Vacant
L Strayer Jerry L 284-9916
M Shipp Ruby Mrs 284-9916
N Vacant
O Roberts Virgus
P Vacant
5321 Doakes Annie R
5322 Harris Roy L
5406 Vacant
5420 Vacant
5430 No Return
NE KILLINGSWORTH ST INTERSECTS
5524 Harris Amos C
NE CHURCH ST INTERSECTS
5602★Albert Michele ◎
5603 Wilson
5612 Hargrove Willie E ◎ 287-5974
5615 Scheid Carma L Mrs ◎
5622 Anderson Joan S ◎
5625 Thomas Ethel E Mrs ◎ 249-1725
5633 Smith Karen E Mrs 287-8009
5634 Vacant
5635 Vacant
5702 Marshall Paul E ◎
5705 Jordan Beverly A Mrs 281-9535
5707 Hancock Debbie Y
5712 Jackson Magnolia
5713 Nguyen Tuong T 287-9113
5723 Vacant
5733 Roberts Ernest T Jr ◎ 284-7057
NE JARRETT ST INTERSECTS
5807 Vacant
5814 Sutton Ronald H ◎ 287-7099
5815 Davis Sherman
5825 Brazil Joseph E Rev ◎ 284-9090
5826 Hill Robt C Rev ◎ 287-5680
5832★Haywood Luna ◎ 249-0178
5835 Johnson Phyllis E Mrs 281-7883
5844 Henderson Olif O 288-0094
5845 Randall Ernie ◎
5850 Carr Myrtle R Mrs ◎ 287-7976
5901 Murray Gregory C ◎
5904★Scott Leola 287-2837
5911 Vacant
5912 Coleman Mary L ◎
5918 Vacant
5919 Boom Christina Mrs ◎ 281-0417
5930 Batcher Mary A Mrs
5931 Mc Calmont James ◎ 282-1153
5945 Rose Vernon J ◎ 281-3898

168
NE AINSWORTH ST INTERSECTS
6010 Rush Otis C ◎
6015 Vacant
6024 Cox Sandra Mrs ◎ 284-6333
6025 King Timothy J ◎ 288-1812
6034★Nicholson Rosemary ◎ 284-0557
6037 Vacant
6104 Vacant
6105 Strachan Joyce Mrs
6115 Busch Margt K Mrs ◎
6116★Nishino Robt A 249-8088
6121 Bittman Philip 284-0025
6126 Vacant
6132★Lewis Hubert A 282-0490
6133 Wright Myron N ◎ 282-9298
6201 Harper James G ◎
6206 Grixby Charles E
6210 Smith John L ◎
6215 Tate Roland R ◎ 281-1587
6224 Vacant
6229 Jackson Sidney J ◎
6232 Paul Royal J ◎ 282-0468
NE HOLMAN ST INTERSECTS
6305★Jackson Gary ◎ 249-1951
6401 Robinson Edw 288-0409
NE HIGHLAND ST INTERSECTS
NE PORTLAND BLVD INTERSECTS
NE BELLEVUE AV INTERSECTS
NE MORTON ST INTERSECTS
6532 Vacant
6536 Vacant
6547 Broyhill Warren ◎
NE LIBERTY ST INTERSECTS
NE LENORE ST INTERSECTS
NE JUNIOR ST INTERSECTS
6717 Hopper Hazel I Mrs ◎ 284-1426
6720 Crockenell Linda E 285-8415
NE DEKUM ST INTERSECTS

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NE DEKUM ST INTERSECTS
6815 Woodland Park Condominium Homes
Akagi R S 285-0499
NE DEAN ST INTERSECTS
6817 Vacant
6819 Featheringill Jack L 285-4334
6831★Jiles Jas 286-2080
6833★Viola Fernie J ◎ 283-6838
6835★Johnson M J 283-1149
6837 Kelley Robt A ◎
NE SARATOGA ST INTERSECTS
6930 Yearsley Evan F ◎ 285-1599
6932★Payne Joyce 281-1566
6934 Berg Alex 289-2184
6936 Kirkeby Craig L 283-6826
6939 No Return
6940 Mankowski Michal
6941 Derryberry John S ◎ 285-7270
6942 Vacant
6943★Walton Linda E
6944 Hickerson Alphonse A ◎ 285-0066
6945 Vacant
NE WINONA ST INTERSECTS
NE BRYANT ST INTERSECTS
7038 Bennett Marie Mrs ◎ 289-1821
NE MORGAN ST INTERSECTS
7106 Rose Larry C ◎
7132 Williams Robt L ◎
NE BUFFALO ST INTERSECTS
7207 Rogers Michl J ◎ 285-3675
7210★Love Julius ◎ 285-2313
7224 Vacant
7225 Busby Thelma 285-9972
7327★Rivers Jevita
7243 Walker Thomas
NE HOLLAND INTERSECTS
7334 Nozaki John I ◎ 289-2926
NE STAFFORD ST INTERSECTS
UP TRACKS INTERSECTS
NE LOMBARD ST INTERSECTS
NE LOMBARD PL INTERSECTS
7515 Aeroplex Incorporated phonebooth refurbishing 286-1732
7522 A & M Lift Truck 289-4949
NE RUSSET ST INTERSECTS
NE COLUMBIA BLVD INTERSECTS

358
ZIP CODE 97211
9442 Vacant
9509 Environmental Developers Inc 285-2062
Johnston Edw M ◎ 289-6711
9711 Freed Kath Mrs 285-8718
9801 Rovang Gar 289-4294
9801a Jones Clay F
9801b Demarest Theresa 285-6455
9801c Knox Clyde B
9801d Larson Allen J 283-0636
10038 Schwieger John F ◎ 285-1792
10127 Foster Kevin M
10129★Tahte Joy L
10145 Mikkelson J A 289-6951
10147 No Return
10345 Plew Theo G
NE FALOMA ST INTERSECTS
10630 Schoenfelder Paul E 285-9482

932
13TH AV NW —FROM 1301 W BURNSIDE ST NORTH

ZIP CODE 97209
NW COUCH ST INTERSECTS
102 Blitz Weinhard (Stge)
NW DAVIS ST INTERSECTS
221 Platt Electric (Whse)
NW EVERETT ST INTERSECTS
300 Rife Richd Antique Imports 294-0276
318 Pep Prntg (Addl Sp)
NW FLANDERS ST INTERSECTS
401 Carton Serv Whse
NW GLISAN ST INTERSECTS

13
NW HOYT ST INTERSECTS
NW JOHNSON ST INTERSECTS
NW KEARNEY ST INTERSECTS

934
NW LOVEJOY ST INTERSECTS
1039 Wilbur-Ellis Co (Whse)
NW MARSHALL ST INTERSECTS
NW NORTHRUP ST INTERSECTS
NW OVERTON ST INTERSECTS
NW PETTYGROVE ST INTERSECTS

912
1630 Burlington Northern Inc (Section Depts) 241-6286
NW SAVIER ST INTERSECTS
1705 No Return

180
13TH AV SE —FROM 1300 E BURNSIDE ST SOUTH

ZIP CODE 97214
SE ANKENY ST INTERSECTS
SE ASH ST INTERSECTS
215★Stanley Mark G 232-6387
Vacant
218 De Busk Margt R Mrs 234-2597
218 Endsley Joyce ◎ 232-9892
225 Otey James C 232-0624
226 Lincoln Loan Co 238-6658
Benson Harry V Iwyr 238-6658
239★Redmond Michl 233-1267
SE PINE ST INTERSECTS
314 Edward E Lyle
324 Hansen Kathy L 239-6867
SE OAK ST INTERSECTS
419 Pronto Select Messenger Co small pkg delivery 239-7666
423 Deluxe Upholstery 233-0662
433 Burian Leading & Kern Typesetting 238-6712

232
SE MORRISON ST INTERSECTS
812 Zell's Cafe (Addl Space)
822 Morgan Thos W 234-0150
SE BELMONT ST INTERSECTS
900 Durland Coe I ◎ 234-1451
904 Ramsay Carla D 232-9582
915 Vacant
916★Belson Harold E ◎ 236-1360
923 Apartments
1★Dilles M 233-3634
2★Mc Adams Benny F calligrapher 231-8877
3 No Return
4★Jones Clara B
924★Westfall Richard B
SE YAMHILL ST INTERSECTS
1013 Korn Leon E investment broker ◎ 236-3766
1016 Swift Steve L 239-4847
1030 No Return
1032★Black J E 236-2303
1034 Hiltner
1036 Vacant
SE TAYLOR ST INTERSECTS
1106 Claire Apartments 231-8305
1 Vacant
2★Fuller Mary E 232-8351
10★Neeth A 286-0095
11★Thomas Irene G 230-2889
12★Jensen Meijer 230-9289
14 Berry
15 Nathaniel
16★Gillman Janet S 230-9567
20 Martin
21★Hanson Jerry 231-7302
22★Mc Kinney Clarence 233-6028
24★Rogers Edward L 238-4544
25 Carlile Ellen B
26 Munchel
30 Sanders Walter H
31★Honson G
32★Barlossi Janet L 230-0410
34★Velez Andres O 235-0695
35★Anderson R
36★Fong Louis 232-9815
SE SALMON ST INTERSECTS
1223 Chisler Danl L ◎ 235-0123
SE MAIN ST INTERSECTS
1303 Hanks Alf 233-2221
1315 Apartments
★Kahle Gregg 236-1430
B★Ricketts J M 232-5563
C O'Keefe
D Mathias Elizabeth
SE MADISON ST INTERSECTS
1421 Frank R Hartman Co leasing automotive rep 235-1456
SE HAWTHORNE BLVD INTERSECTS

244
SE DIVISION ST INTERSECTS
ZIP CODE 97202
2513★Peterson James J 239-0266
2514 Lapham Sarah E 234-3419
2518 Ralston Danny 233-9630
2525 Magnuson Melvin B ◎ 236-3301
2526★Huynh Duc 235-6141
2528★Dunn Gloria 233-2114
2534 Barncord Robt R 235-1472
2537★De Ford Shirley M nurse ◎ 232-4486
SE IVON ST INTERSECTS
2605 Vacant
2615 Ladd Pamela
SE CLINTON ST INTERSECTS

274
SE POWELL BLVD INTERSECTS
3111 Warren Dean Plumbing 236-4152
SE KELLY ST INTERSECTS
3205 Image Graphics & Litho prntrs 231-5659
Vacant
Applied Plastics fabricating frshg & decorating 232-5056
3208 Ortho-Med Inc orthopedic sup ret & whol 234-9691
3215 Wood Marion L ◎ 236-4269
3216 Vacant
3223 Carlson Eunice E Mrs ◎
3226 Kenner Reid F
3234 No Return
3237★Abadi Bo ◎ 234-2212
SE FRANKLIN ST INTERSECTS
3309 Shade Tree Apartments The 239-4920
1★Tran Quyen 236-4330
2 Vacant
3★Wagner Edw
4★Phung Dinn Guong
5★Hanke Donald
6★Fauria Michelle
7★Davis Jas L
8 Regory
9 Berry
10 Collins
3316 Schoos Gary L ◎
3324 Krausse June A Mrs ◎ 236-6619
3325 Hamill Robt M III ◎ 232-3545
3334 Dreizen Andrea ◎
SE PERSHING ST INTERSECTS
3352 Porter Christopher W 231-6436
3353 Leonard Kenneth S ◎ 236-8184
3356 Kleifges Michl J 238-1344
3364★Troutt Jeffery D 232-3753
★Kress David 235-2547
3367 Chin Fook W ◎ 234-4029
3372 Wicks Milo L ◎ 236-6744
3373★Ing Roger K 239-4400
3383 Cowden Sharral
SE HAIG ST INTERSECTS
3405 Nelson Wm R ◎ 233-2307
3411 Splawn Glenn W ◎ 236-7982
3414 Brooks Richd W 232-5537
3417 Bouchard Mary B Mrs ◎ 235-7041
3424 Hoag Mary J Mrs ◎
3434 Furlow Gary R ◎ 239-4041
3435 Dale Ronald Apartments 235-6771
1 Pierce Jerry L
2 Vacant
3 Wong Beo T Mrs
4 Vacant
5 Haskins Margt
6 Fay Edw W 239-7658
7 Kludt Eliz A
8 Czaplewski Margt
9 No Return
10 Vacant
SE RHINE ST INTERSECTS
3502 Jackson Charles A ◎ 235-1466
3505 White Robt S ◎ 235-6048
3518 Schmunk David 236-7449
3523 Gerani Lynn M 235-9484
3524★Nowak Tamora L ◎ 239-4475
SE LAFAYETTE ST INTERSECTS
3601 Hampton Wm F ◎
3604 Werner Eric R ◎ 234-8078
3611 Ritchies Upholstery 232-7768
3614★Daffney Jas 235-4244
3622 Voss
3624★Tremblay Chris
3625 Goodrich M E ◎ 236-2094
3628 Morrell Leonard E ◎
3640 Gardner Steven Jr 238-1584
SE RHONE ST INTERSECTS
3704 Bailey Virginia 234-2339
3705★Madden Steven P 232-2285
3706★Runger Michl
3716★Porter Debora
3721 Morgan Manor Apartments
1 Vacant
2 Vacant
3 White Debra Mrs
4★Washington Joe
5 Dibble Gary A
6★Lewis Pamela
7 Cline Bill H
8 Higgins Sabra Mrs
9★Higgins Sarah
10★Hester Warren
Montrose Eugene W & Associates mktg consltn
3724★Riddle Hariot
3726 Kennedy Carl J
3734 Top-Lite Stuidos 230-2866
Wallace D P ◎ 233-0936
SE BUSH ST INTERSECTS
3803 Abernathy Edw B 230-3330
3804★Prentice Paul E 239-4211
3818 Amerman Lorena E Mrs ◎ 235-8282
3828 Skralskis Robt A ◎ 234-7105
3838 Smith Myrna J Mrs ◎ 235-6815
3848 Johnson Lloyd G ◎ 231-6347
3904 Perks Wm E 238-1653
3914★Paulsen Gerrald F 239-4614
3924 Peragine Tony J ◎
3932 Purcer Patricia A Mrs ◎ 235-4447
SE CENTER ST INTERSECTS

278
ZIP CODE 97201
SE MARTINS ST INTERSECTS
6106 Younger Margt H Mrs ◎ 236-5133

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Brewed

6713 S.E. HOLGATE BLVD. PHONE 774-3265

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DCS

DANIEL E. BEESON, D.C.
MATHEW TICHENAL, D.C.
7215 S.E. 13th AV. CALL 238-7025

NE FREMONT ST—Contd
8405 Rose Villa Beauty Salon 253-5169
8407 Chris' International Coffees 257-3284
8436 Whaley Larry B ◎ 253-7974
8464 Greenlund Henry C ◎
NE 85TH AV INTERSECTS
8504 Fuhrer Alfrieda Mrs ◎ 254-1875
8505 Wilkins-Scheer Tax Consultants 257-7826
8512★Warberg Jim J ◎ 254-1740
8515 Ramona's Hobbie House 254-3961
8524 Anderson John P ◎ 254-5744
8525 U R Video Store 252-9257
8534 Jacobson Ralph E Jr ◎ 255-3903
8535 Shopeteria The gro 253-1353
8539 Woods Elton M 255-7232
8541 Bechtold Kath 252-6697
8546★Schaller Kevin 253-2527
8547 Vacant
8549 No Return
8556 Hagen Robt L ◎ 253-7100
8557 Leighton Lionel A 253-3239
8603 Erickson Lee G
8604 Mullins Roger L ◎
8605 Mennick Charles F ◎
8607 Pizzo Joseph A ◎ 253-0522
8614 Barnard Kathleen J Mrs ◎ 254-2787
8624 Hall Morgan W ◎ 254-2103
8625 Hermanson Gary S ◎ 254-1148
8634 Lewis Christine M Mrs ◎
8644★Mobley David ◎ 253-4361
8645 Adriance M 256-0689
NE 87TH AV INTERSECTS
8702 Hartley Andrew G ◎ 253-3207
8707 Rea John C ◎ 254-1262
8714 Exton Earl ◎ 256-5829
8723★Anderson Jerry S ◎ 253-7715
NE 87TH PL INTERSECTS
8737 Loth Hilda D Mrs ◎ 253-9324
8744 Campbell Charles G ◎ 254-4397
8745 Jones Theo E ◎ 252-6624
8757 Souders Doyle E ◎ 254-4457
88TH AV NE INTERSECTS
8814 Vacant
8853 Fincher Carl L ◎ 253-6132
8867 Spano Conchita Mrs ◎ 254-1344
89TH AV NE INTERSECTS
8907★Warner Rodney 252-1066
8915 Pollay Paul
8916 Capek S A ◎ 256-1903
8925 Bonner Waymon A ◎ 252-4753
90TH AV NE INTERSECTS
9011 Blum Mary K Mrs ◎ 257-1072
9025 Draheim Lida K Mrs ◎ 253-1571
9030 Pratt Fevrel W ◎ 252-2536
9038 Nielsen Richd L ◎ 255-3640
9041 Lidstrom Robt W ◎ 254-0815
9201 Temple Christian High Sch 252-8324
9210 Mauchley Dean E ◎ 253-9854

367

ZIP CODE 97230
NE ROSE PARKWAY INTERSECTS
12314 Robertson J E ◎ 253-5426
12315 Crosby Joan 253-8093
12317 Vacant
12331 Quin Margt E 254-5169
12332 Bell Kenneth K ◎ 252-6779
12333 Smith Keith A ◎ 254-7846
12345 Rice Kraig R 256-5262
12347★Anderson Mathew 257-0055
NE 124TH AV INTERSECTS
12405★Claire R L ◎ 253-5694
12425 Brown Noel A ◎ 255-3282
NE 124TH PL INTERSECTS
12434 Bowles Willie S ◎ 256-1375
NE 125TH AV INTERSECTS
12500 Starkel Wm Jr ◎ 252-1093
12505 Gibbs Art ◎ 255-0370
12533 Simmons G Fred ◎ 254-0825
12561★Scrivner Robt ◎ 254-5527
NE 126TH AV INTERSECTS
12611 Colasuonno Joseph J ◎ 256-1471
12626 Kelley Donald L ◎ 253-9963
12640 Joseph Frank M ◎ 254-3402
12641 Nashif Theo J ◎ 252-7918
12645 Schmidt Dean E ◎ 252-1743
NE 127TH AV INTERSECTS
12709 Ege Edwin O ◎ 252-7515
12729 Long Wallace M ◎ 252-4166
12747 Manley Harold R ◎ 252-8086
NE 128TH AV INTERSECTS
12815 Hardin Roy N ◎ 254-3951
12833 Ekness Ralph I ◎ 254-3172
NE 129TH AV INTERSECTS
12907 Pfeifer John ◎ 255-9382
12925 No Return
12941 Brown Richd I ◎ 252-0539
NE 130TH AV INTERSECTS
13007 Rupe Robt A ◎ 254-0539
13026 De Haan Douglas W ◎ 253-5582
13027 Highland Thos E ◎ 256-1787
13043 De Sully Helena E Mrs ◎ 255-2282
NE 131ST AV INTERSECTS
13057 Bjorkman Harold F ◎ 252-9209
13111 Ast Gloria F Mrs ◎ 255-0737
13124 Greaby John R 255-9199
NE 131ST PL INTERSECTS
13131 Raasi Henry ◎ 253-1962
13207 Hill Benj W ◎ 253-9112
NE 132D AV INTERSECTS
13210★Van Horn Jack T ◎ 254-3851
13222 Zoeller Franz 256-4731
13227 Huey Alma Mrs ◎
13247 Casey R
13257 Dettinger Heinz K ◎ 256-9739
NE 133D AV INTERSECTS
13309 Blackwell G Bill ◎ 252-2095
13310 Posch Conrad F ◎ 253-5839
13320 Weston David P ◎ 252-1912
13325 Richardson Lee 256-3865
NE 134TH AV INTERSECTS
13340★Powell Renato 257-8266
13414 Harris Ronald E ◎ 255-6002
13431 Callaway Doris H ◎ 254-1760
NE 135TH AV INTERSECTS
13505 Brown Stanley M 256-0051
13515★Bromley Matthew J
13525 Hauter Phyllis
13601 Garriott Alice B ◎ 254-1594
13613 Ross D Lloyd ◎
13623 Bean Donald W ◎ 254-6673
13633 Cason Robt E ◎ 253-2578
13707 Pratt Agnes H Mrs ◎ 256-1978
13717 Belsher Milton W ◎ 252-8555
NE 138TH AV INTERSECTS
13829 Biglow Robt K ◎ 255-1940
13843 Dailey Wm M Jr ◎ 252-5076
13907 Dappen Sandra K Mrs ◎ 254-5852
13923 Johnson Keith W 256-4320
13937 Webb Phil G ◎ 252-2607
14003 Coverdale Bing L ◎ 253-1481
14021 Walde Elmer R Rev ◎ 252-6818
NE 141ST AV INTERSECTS
14111 La Croix Ronald J ◎ 252-4535
14123 Parkhurst Wm R ◎ 252-7152
14135 Leichner Alan W ◎ 253-8091
14151★Fairfield Thos ◎ 252-7434
14220 Martin Donald S ◎ 253-7628
14221★Holden Douglas C ◎ 253-5855
14232 Gingrich Richd A ◎ 252-9384
14235 Truhn Richd 252-1891
14244 Gilbert W C ◎ 256-1092
14247 Satterlee James A ◎ 252-1186
14304 Greaby Wm H Jr ◎ 255-9742
14313★Bell John ◎ 255-1346
14329 O'Neill Donald E ◎ 254-9538
NE 144TH AV INTERSECTS
14407 Miller John N ◎ 254-9694
14420 Williams Jerry L ◎ 252-5183
14423 Mc Coy Joseph A ◎ 253-8062
14435★Smith Wm H ◎ 253-9140
NE 145TH AV INTERSECTS
14509 Nicholoff Geo ◎ 252-8339
14510 Stewart Suewayne Mrs ◎ 255-3743

921

FRONT AV NW —FROM 1 W BURNSIDE ST NORTH

ZIP CODE 97209
5 Pacific Orient Imports 228-2293
Skidmore Development Corp 228-7404
600 Swift Mart Store No 4 248-9084
Bush George S & Company Inc custom house brokers 228-8501
Mc Cormick Pier Apartments 228-7437
NW COUCH ST INTERSECTS
NW DAVIS ST INTERSECTS
NW EVERETT ST INTERSECTS
NW FLANDERS ST INTERSECTS
NW GLISAN ST INTERSECTS

922

NW BROADWAY ST INTERSECTS
1118 Under Constn
1300 River Queen restr 228-8633
1362 Centennial Mills (Flour Mill) 233-8060
NW 9TH AV INTERSECTS
Centennial Mills Inc flour 223-8060
1466 Vacant
1468 Moore Benjamin & Co

912

ZIP CODE 97210
2047 What's Up Dock restr & bar 227-7842
2100 U S Customs-Service (Dock Insp Ofc) 221-2660
2211 Steel Yard The 224-8770
2279 Emerson Hardwood Co whol lmbr 227-6414
2303 Standard Steel (Whse)
2500 Vacant
NW 21ST AV INTERSECTS
2530 No Return
2545 Portland General Electric Co (Transformer)

927

NW NICOLAI ST INTERSECTS
2800 Bingham Willamette Co custom pump mfrs 226-5200
2831 Hi Neighbor gros & deli 222-2737
2855 Vacant
3045 Vacant
3066 Vacant
3070 Municipal Term No 2 (Supt Ofc) 233-8331
3075 Galley The restr 228-2991
3079 Vacant
3085 Campbell Chain mfrs 223-4187
3125 Dasic International (Plant) chem mfrs 222-2938
3147 Mc Cracken Motor Freight Inc 222-4291
3245 Viking Automatic Sprinkler Co 227-1171
3333 F T L Inc frt lines 227-6440
Tap-Rich Chemical chem sls 241-7255
3345 Fleet Maintenance Inc truck repair 222-3456
3445 Vacant
NW 26TH AV INTERSECTS
3630 Port Of Portland (Dredge Field Ofc) 231-5000
Municipal Terminal No 2 pier 231-5000
3641 Abbott Laboratories medical supplies 227-6440
3653 Thermacote-Welco whol wldg sups 224-3970
3657 Goodall Rubber Co rubber prod 227-1259
3660 City Fire Bur-Eng Co No 6 227-6175
3677 Jinthay chinese food whol 222-6501
3683 Lincoln Electric Co 228-8858
3710 Western Transportaion Co marine towing 221-0933
3721 Bartell's E J Co insulation whol 228-9367
3838 Western Transportation Co mdse whse 226-6901
4250 Vacant
4350 Gunderson Incorporated steel fabrication 228-9281
4700 Gunderson Inc (Addl Sp) 228-9281
4850 Gunderson Inc (Addl Sp) 228-9281
NW KITTRIDGE AV INTERSECTS
4900 Pacific Marine Communicationa Co tug & barge 228-8850
Kerry Log & Rafting Co tug & barge 228-8850
Shaver Transportation Co tug & barge 228-8850
Shaver Alaska Transportation Co tug & barge 228-8850

928

NW KITTRIDGE AV INTERSECTS
Shaver Transportation Co Inc 228-8850
No Return
4927 Acme Trading & Supply Co scrap metal 227-5501
4959 Airco Welding Products welding & med gases 228-0400
5005 Chemlime Corp chem mfrs 224-3290
5200 Tube Forgings Of America mfs seamless steel wldg ftgs 228-3361
5480 Mc Call Oil Co (Marine Terminal) 221-5755
5500 Mc Call Oil Co (Asphalt Terminal) 221-5755
5501 Chevron U S A Inc asphalt mfrs 221-7811
5700 Chemax Incorporated ind chem fmg 227-1616
5825 Chevron U S A Inc (Stge)
5924 Chevron U S A Inc (trans dept) 221-7890
NW DOANE ST INTERSECTS
6345 Shell Oil Co (Asphalt Plant) 228-7321
6350 Genstar mfg asphalt roofing material 222-1300
6400 Washore Mechanical Inc mech eng 224-5247
Pennwalt Corp chemical mfrs 228-7655
Pilcher O'Leary Construction Inc genl bldg 227-7256
ZIP CODE 97229
6529 Liquid Air Inc (Acetylene Plant) 224-4321
7000 Guilds Lake Pumping Station
7200 Wacker Siltronic Corp silicon wafer mfg 243-2020

49

ZIP CODE 97231
NW 108TH AV INTERSECTS
10829★Peterson Doreen 285-9230
10837 Vacant
NW 109TH AV INTERSECTS
10921 Kristin Veronica Mrs ◎
10937 Eudaly S P Inc constn 286-4633
NW 110TH AV INTERSECTS
11033 Vacant
NW 111TH AV INTERSECTS
11104 West Coast Adhesives Co plywood adhesive mfgs 286-3515
11105★Benson Jas J 286-4152
11125 Vacant
NW 112TH AV INTERSECTS

901

FRONT AV SW —FROM BURNSIDE ST SOUTH 1 EAST OF SW 1ST AV

ZIP CODE 97204
SW ASH ST INTERSECTS
111 Vacant
113 Vacant
117 Vacant
FL Turtledove Clemens Inc mkt research-advertising 226-3681
SW PINE ST INTERSECTS
233 Two Thirty Three SW Front Building
Rooms
K K S N Radio Sta 796-9180
Jones & Jones archt & landscape planners 241-3810
Western Planning & Associates
STREET CONTINUED
235 Masters Mates & Pilots off shore div 228-3521
237 Photo & Sound coml photos 222-1664
Audio-Visual Rentals & Services 222-1664
SW OAK ST INTERSECTS
SW STARK ST INTERSECTS
433 City Center Parking Inc

913

SW MORRISON ST INTERSECTS
727 Vacant
737 Vacant
SW YAMHILL ST INTERSECTS
800 Mill Ends Park
811 Bank Of Oregon 228-2677
Suites
200 Paulson Investment Co Inc stock brokerage 243-6000
310 Mc Callister & Company cpa 224-2777
320 Vines Neville R psychologist 222-6475
410 Bane Barham & Holloway investment advisors 222-1933
410 Daugherty Cole Inc investment advisor 222-1933
420 Markowitz & Herbold lwyrs 295-3085
440 Paul Revere Insurance Co 222-4687
5thfl Holmes De Franeq & Schulte P C lwyrs 223-4131
600 Tamblyn & Bush lwyrs 241-1320
630 Davis Donald J & Associates cpa 227-0138
SW TAYLOR ST INTERSECTS
SW SALMON ST INTERSECTS
1020 Vacant

925

ZIP CODE 97201
SW MAIN ST INTERSECTS
SW MADISON ST INTERSECTS
SW JEFFERSON ST INTERSECTS

157

SW COLUMBIA ST INTERSECTS
1401 Marriott Hotel Portland The 226-7600
Fazzio's Cafe 226-7600
King's Wharf The restr & lounge 226-7600
Gambits The cocktail lounge 226-7600
Lobby Marriott Gift Shop The 226-7600
Marriott Lobby Bar The retail beer 226-7600
Mc Bride Travel 222-3033
Marriott Fitness Center The spa sauna 226-7600
Lobby Marriott Hair Salon 226-7600
SW CLAY ST INTERSECTS
SW MARKET ST INTERSECTS
1605 Riviera Motors Inc auto dlrs 226-3831
SW HARRISON ST INTERSECTS
1720 Portland Center City Pk (Stge & Garage) 223-4319

159

SW LINCOLN INTERSECTS
2145 Boy Scouts Of America (Columbia Pacific Council) 226-3423
SW FOOTHILL FREEWAY INTERSECTS
SW SHERIDAN ST INTERSECTS
SW ARTHUR ST INTERSECTS
SW MEADE ST INTERSECTS
2804 Roberti Danato ◎ 228-7808
2828 K O A P-F M-TV 229-4692
Oregon Educ Pub Broadcasting Serv (O E P B S) 229-4687

175

SW HOOKER ST INTERSECTS
SW PORTER ST INTERSECTS
SW WOODS ST INTERSECTS

TANNING CENTER 316 S.W. Alder TEL. 224-1811 SYSTEM INC.

SW QUAIL POST RD—Contd
9927★Zbinden John ◎
9928 Qutub Osama ◎ 245-5212
9929 Maxwell Jay L ◎ 244-5849
9930 Beattie Lois S 245-5082
9932 Masters Wm A ◎ 244-9048
10004 Khemaini Ross 244-1200
10005 Mc Farland Dennis 245-4524
10007 Bibler Jerry A ◎ 244-5503
10008 Disher Richd E ◎ 245-3282
10009 Holman Wm C 245-4029
10011★Fisher P A ◎
10013★Clelen Stewart 246-7664
10014★White Geo C Jr ◎ 244-1075
10015 Kadel John F ◎ 246-1979
10016★Brockens David 246-1927
10017 Lewis Robt C ◎ 244-2942
10019 Hott D Vernon ◎ 245-8692
10021 Padrick Kevin D ◎ 246-2661
10023 Wilson Bettie E 244-0868
10025 Slauson Robt W 245-1586
10026★Meaney John
10027 Kilkenny Vesta Mrs ◎ 244-3311
10028 Paine David M 244-8500
10029 Swartz Clayton 244-6542
10031 Mc Donald Gary W 246-0877
10033 O Connor Russell L ◎ 246-3897
10035 Maffei Gary R
10036 Anderson Oscar R 245-5118
10037★Larson Robt C 245-1895
10038 Prentiss Bradley W ◎ 246-2066
10039★Meldrum J D 246-9653
10041 Orcutt Kenneth L
10043 Mandel Scott H ◎ 246-3637
10045 No Return
SW HUBER ST INTERSECTS

912
QUIMBY ST NW —FROM 1501 NW 12TH AV WEST

ZIP CODE 97209
NW 13TH AV INTERSECTS
NW 14TH AV INTERSECTS
1433 Paulson Machine Works Inc saw mfr & imported equip sls 228-3167
NW 15TH AV INTERSECTS
1526 Vacant
1555 No Return
NW 16TH AV INTERSECTS
NW 17TH AV INTERSECTS
1732 Marina Building Rooms
101 Artranse Credit Inc collection agency 226-3493
201 Pacific Inland Tariff Bureau 226-2841
1732 Transportation Factoring Inc trans lines 226-3493
NW 18TH AV INTERSECTS
1812 Ceiling & Interior Systems Supply Inc 223-9318
1818 T R W Replacement Division (Whsl) auto parts whsl 222-3204
1828 Sir Business Interiors Unlimited ofc equip reprs 224-9568
NW 19TH AV INTERSECTS
1926 Hydraulic & Air Equipment Co 222-3295
NW 20TH AV INTERSECTS

31
ZIP CODE 97210
NW 21ST AV INTERSECTS
2120 Sunmark Data Inc whsl-ret comp sup 223-7970
2140 Vacant
2154 Spencer Steve ◎
2162 Vacant
NW 22D AV INTERSECTS
2215 Holmes & Associate Inc inds wire & cable 227-5555
2220 Davis Industrial Products Co equip & sup 226-1221
2256 Apartments
1★Harris Dale W 223-9695
2★Unger I M 295-6401
3★Beran J
4★Waters David A 248-0708
2259 O & S Supply Co Inc med packing supplies 226-6013
2266 Apartments
5★Schulbach Patty 224-7162
6★Cosme Nemsio 242-1740
7 Berger Robt I official spanish interpreting 224-6034
8 Northwest Design Works architectural design 224-3082
8★Mac Kenzie Hilary 224-3082
2277 Parker Hannifin (Cylinder Div) mfrs 221-0182
NW 23D AV INTERSECTS
2313 Mc Dowall A I 248-0201
2315 Kaplus Michl 222-3910
2316 Himes Lucian W 225-0336
2317 No Return
2324★Sak Z S 228-9643
Van Hodger
2336 Leavens Investment genl contrs 228-5081
Leavens Winston C ◎ 228-5081
2344★Morrow Peggy 228-0420
2355 Century Direct Marketing direct mail marketing 222-7300
Century Data Inc computer operating 248-0116
2356 Terrill Irvin H ◎ 223-9632
★Richardson Elsa D 223-9632
2360 Bowers Printing Inks 222-3123
2367 Portland National Film Serv (Whse)
2369 Portland National Film Service motion picture film distrs 224-6205
2384 Didak J J Mrs ◎ 226-1114
2390 Stepping Stone Cafe restr 222-1132
NW 24TH AV INTERSECTS
2419★Blackman Philip 227-7128
2420 Quimby Court Apartments
1 Rosebrook Scott
2 Nelson Heidi 223-0448
3 Kingwell G
4★Kalustian Richd 224-5182
5★Wilde Dennis urban planner 223-9739
7★Vukovic Robt 223-9819
8 Brande Lois M 227-0846
9 Miller Danl 224-7491
10 Nguyen Thuan 295-7965
11★Tillson Rena 223-9308
12★Morgan Michaele 224-9219
13★Uriguen Steve 223-8218
14 Atherton W
15★Miyashiro Richd T 227-5832
16★Hara M J 228-5751
2421★Howell J
2423 Martin James 223-1154
STREET CONTINUED
2433 Apartments
1★Booth Sarah
2 Miller Al 223-1485
3★Craig Linda S 224-6240
4★Noren Kerstin E 227-3604
2434★Stevens Douglas ◎ 228-3061
2445★Baker Kelley 222-9875
★Karbo Karen freelance writer
★Murray Janet 242-1854
2446 Reznik Chaim Rev ◎ 223-2933
2455 Westview Apartments 223-5668
A★Koehl K
100★Liddle Richd 223-5668
101★Cartwright Jas R
102★Fisher V
103★Davis Frank M 223-0165
104★Fors Steven W 241-2358
105★Burns M R 226-2174
106★Fahey Thos L 228-7581
107★Nelson Jeffrey A 295-0589
200 Frankel Russell 226-0685
201 Purcell Dennis A
202 Schlott Susan J 224-8705
203★Loar Carrie 248-0412
204★Pherson M
205★Edelman Steven 227-3928
206 Sueper Alphonse F
207★Rolow M
STREET CONTINUED
2456★Drake Barbara ◎ 224-7388
2463 Peterson Raymond W mental hlth splst ◎ 223-7719
2473 Vacant
2475★Felkel Linda
2479 Galick Jeanne graphic designer 224-9036
★Selinger Philip R 241-3097
2480 Quimby Court Apartments 224-2635
1★Brown Chandler B
2★Horky S M 241-9015
3★Miller Christopher
4★Gioja Geoffrey 224-1188
5 Hertzberg Joseph 226-7854
6★Nero J
7 Eizema Johanna G Mrs 223-9174
8 Stanton Nellie L 227-4894
9★Ruhl J 227-6186
10 Williams Maggie
11★Rabin David 226-4645
12 No Return
13 Rawlings Delores J 228-9704
14 Freshour
15 Nichols Opal E Mrs 227-1325
16★Elliott Velma M 227-5773
STREET CONTINUED
2487 Dall & Dall Advertising 221-1210
Dall Andrew ◎ 224-4969

29
N W 27TH AV INTERSECTS
2716 Long Jennie L Mrs 223-1842
2718 Mc Cartney Violet J Mrs 222-5154
2721 Mc Murtrie Anne M Mrs 227-4675
2724 Wong Wawgoon 223-9423
2727 Wipf Evelyne M ◎ 227-1308
2728★Counts Christopher D ◎ 223-4285
2733 Chenoweth L S 223-9439
2734★Dixon M Godfrey 241-0654
2735★Duvall Ronald 295-2604
2736★Ettlin Hans 224-2071
2741★Drougas Dace 222-7488
2745 Vacant
2746 Ricks E R Del ◎ 228-1984
2748 Papagolos Costas R
2755★Parr Jas 248-9685
2757★Lowe Carole A
2760 Marmaduke Mary E ◎ 227-4858
2761★Hansen M E 248-0646
2762★Zook Robin 248-9747
2763★Hahn S L 295-1846
2765★Kelley Peter 242-0609
2771★Beatty G D 223-1573
2782★Stevens Nancy H ◎ 223-2771
2784 Vacant
2785★Robinson Jan 242-0060
2786 Harp Ruel F Jr 224-6036
2788 No Return
N W 28TH AV INTERSECTS

27
NW 29TH AV INTERSECTS
2901 Shlim Nathan ◎ 228-4404
2910★Dohrmann C ◎ 224-2262
2930 Nohlgren La Verne A Mrs ◎ 228-7889
2941★Pearce Jay M ◎ 223-1160
★Davis Robt L 228-4537
2951★Williams Harold ◎ 222-0087
2960 Thommen N 224-6256
3004 Slaughter Edw R ◎ 222-0089
3009 Vacant
3022 Nelson John G ◎ 223-1312
3033 Sheldon Geo C Jr 223-7984
SW 33D AV INTERSECTS

221
RADCLIFFE LA SW —FROM 10203 SW 55TH AV WEST

ZIP CODE 97219
5530 Blackburn H Z 244-4232
5535 Wahlgren Beulah 244-5070
5600★Charnstrom Brad K 293-0423
5615 Robinson Jean R Mrs 244-5045

221
RADCLIFFE ST SW —FROM SW 61ST AV WEST 1 SOUTH OF SW HUBER ST

ZIP CODE 97219
SW 61ST AV INTERSECTS
6100 Bentley Glen W ◎ 244-6988
6127 Johnson Helen F Mrs ◎ 244-2055
6130 Reuter Harold D ◎ 244-8264
6141 Luman Ira D ◎ 244-1843
6144 Minor Robt D ◎ 246-6286
SW 62D AV INTERSECTS
6221 Ramsthel Donald D 244-7012
6234 Eller Jerry E ◎ 293-0089
6237 Puliz John R ◎ 244-3513
6308 Grabast Sherri ◎ 246-5884
6315 Mang Egon C ◎ 244-4061
6324 Pearson David P ◎ 245-5851
6331 Bayley Bruce L ◎ 246-9514
6340 Tulley Roger B ◎ 244-2398
6405 Latham Geo O ◎ 245-2831
6410 Peoples Dennis J ◎ 244-0872
6428 Began Arth F ◎ 244-7208
6444 Dorner Wm J ◎ 244-3250
6445 Navi Farlouzan ◎ 246-9762

51
RAILROAD ST N —FROM 2212 N ALBINA AV WEST

ZIP CODE 97227
N LEWIS AV INTERSECTS
N CLARK AV INTERSECTS
N HARDING AV INTERSECTS
N RANDOLPH AV INTERSECTS

25
RAINIER TER NW —FROM 2750 NW BEUHLA VISTA TER NORTH

ZIP CODE 97210
408 Drum M Josephine Mrs ◎ 223-0236
NW MONTE VISTA TER INTERSECTS

47
RALEIGH DR NW —FROM NW SKYLINE BLVD NORTH 1 SOUTH OF NW MONTVIEW AV

ZIP CODE 97231

912
RALEIGH ST NW —FROM 1601 NW 12TH AV WEST

ZIP CODE 97209
NW 13TH AV INTERSECTS
1312 Benson Tom Ind (Addl Sp)
1313 Burlington Northern Inc (Shops)
1350 Benson Tom Industries Inc glass dlrs 226-7611
NW 14TH AV INTERSECTS
1400 Auto Wheel Service Inc mfrs 228-9346
NW 15TH AV INTERSECTS
NW 16TH AV INTERSECTS
NW 17TH AV INTERSECTS
NW 18TH AV INTERSECTS
1828 M K C Enterprises Inc finance 227-5341
NW 19TH AV INTERSECTS
1832 C F I Bankers Service Group financial consultants 228-2200
Heidelberg West Inc prntg equip 223-5673
1935 Apartments
1★Walker James R 223-0657
2 Follett
3 Haythorne
4 Wright
1936 Apartments
1★Seems Greg 241-8081
2 Peterson
3 Wallingford S
4 Mc Intosh
1945 Mc Callen Helen P Mrs ◎ 223-5065
1955 Apartments
1★Pladel Jack
2★Marshall Mary Jo
3★Shaw T G 227-4769
4★Triscruzz John
1965 Edna Apartments
1 Capshaw Rosalie J
2★Pair Pamela 223-4038
3 Inskeep
4★Ffitch Peter 228-0713
NW 20TH AV INTERSECTS
NW 21ST AV INTERSECTS

31
ZIP CODE 97210
NW 21ST AV INTERSECTS
2170 Willamette Sales whsl distr 228-7431
NW 22D AV INTERSECTS
2211 Polak V Inc mail order 295-0733
Beam Northwest vacuum clnr sls 295-6950
Double Eagle Motor Sports car racing 295-2152
A M G Northwest Inc import car parts 221-7829
2219 Vacant
2222 Pacific Northwest Bell (Constn Garage) 242-8382
2237 Farley Printing Co 222-5722
2239 Ryder Election Systems Inc ballot printing 222-4930
2257 Portland Pattern Inc pattern mkrs 224-9276
2258 Oregon Envelope Co 227-5494
Key Lithograph prntrs 222-9191
2259 Great Western Ink Co 295-1155
2268 Britton Cherry J ◎ 222-3409
2274 S W A Incorporated (Acct-Admn Western Windshields) auto glass whsl & ret 241-1565
NW 23D AV INTERSECTS
2309★Marshall L G 222-1513
2311★Foote La Vita 223-6389
2313★Lawson Detra
2315★Sweet Lael
1stfl Thinking Software consultant 226-7074
2319★Sheldon Jonathan 226-7074
FL★Watson Stephany 227-1770
2330 A-One Scales Sls & Serv all type-scales sls & serv 248-0711
NW 24TH AV INTERSECTS
2409 Kelly Anna M 228-5367
2414 Mc Allister's Auto Craft auto repr 226-2880
2417 Munch Johnny A ◎
2424 Lambing Peter J ◎ 223-3271
2425 Saito Thos T ◎ 223-3851
2434 Barnum Edw E ◎ 221-0391
2437 Pucik Margt Mrs ◎ 223-4374
2440 Banzer Robt L ◎ 223-7487
2445 Fajer Vincent 223-8048
2450 Kaneshige Kiyoshi Mrs ◎
2455 Kelsey Wm N Jr 227-4245
2456 Blackman Sanford S ◎ 222-9652
2462 Reynolds Martha 227-0780
2465 Raleigh Apartments
A★Germeyer Gail
100★Hughes M B 223-5237
101★Cvarak Andy
102★Krantz R Marquam 243-6306
103★Hepburn D
104 Pavelio
105★Brewer J
106★Gray Del 248-0781
107★Epstein Adele
200 Vacant
201★Albano R 222-1653
202★Wysong L
203★Johnson D
204 Houchens
205★La Mack Barbara
206★Stevens Jeff C 223-2912
207★Riker Ganlor 226-0387
STREET CONTINUED
2470 Price Dorothy ◎
2475 Apartments
1★Weeks D L 223-5014
2★De Vita Margt G 223-3207
3★Hall-Fitzgerald Linda 224-7590
4★Dee D 225-9191
5★Aery S 225-0741
6 Vacant
2480★Dwyer John G ◎ 228-0455

Riopresteins
Lloyd Center 287-2401
Eugene-Valley River Center 683-2850
Salem 585-6313

NE 13TH AV—Contd
5029 Nickerson Donald O
5034 Avent
5035 Johnson
5044 Killmon Wm 249-0349
5045 Foughty Orton P ◎ 284-7411
5050 Jenkins Granville ◎
5051★Stowell Blue 281-3513
NE WEBSTER ST INTERSECTS
5112 Parker Earlene Mrs 281-7099
5121 Nesbit Harry L 282-7545
5122 Smith F 282-7536
5128 Heying Gerald L ◎ 282-8338

150
NE WEBSTER ST INTERSECTS
NE SUMNER ST INTERSECTS
5210 White Opal M 284-8122
5322 Vacant
NE ROSELAWN ST INTERSECTS
5265 Vacant
NE EMERSON ST INTERSECTS
5312 Emerson Plaza Apartments
A★Berry L 281-8658
B Keister Edw 281-2688
C Lowery Calvin B
D Griffith Willis D
E Williams John C
F Wallace Grant 282-1929
G★Harris Eddie
H★Keys Eliz 281-2352
5314 Emerson Plaza Apts
I Hassan Albert
J Vacant
K★Conteh S
L Vacant
M Shipp Ruby Mrs 288-9913
N Campbell
O★Christopher Charles 281-2665
P★Wilson T
5321 Doakes Annie R
5406★Matthews Howard ◎ 287-5457
5420★Gomez Martha S Mrs
5430 Watts Fannie I ◎ 284-3726
NE KILLINGSWORTH ST INTERSECTS
5524★Harris Amos C
5602 Winslow Steven H 249-0972
5603 Rudolph Joan 284-5166
5612 Hargrove Willie E ◎ 287-5974
5615 Scheid Carma L Mrs ◎ 282-8209
5622 Bixel Roy B ◎ 282-6104
5625★Thomas E E ◎ 249-1725
5633 Vacant
5634 Baker Betty J Mrs ◎
5635 Vacant
5702 Marshall Paul E ◎
5705★Jordan B A 281-9535
5707 No Return
5712 Vacant
5713★Fay Wm J 281-8930
5723★Ryce Lou
5733★Roberts Ernest T Jr 284-7057
NE JARRETT ST INTERSECTS
5807 Davis Elmer
5814 Sutton Ronald H ◎ 287-7099
5815 Vacant
5825 Brazil Joseph E Rev 284-9090
5826 Hill Robt C Rev ◎ 287-5680
5832 May Arth G ◎ 284-4666
5835 Vacant
5844 Vacant
5845 Ramball Ernie ◎
5850 Carr Myrtle R Mrs ◎ 287-7976
5901★Pickering Donna L ◎ 287-8489
5904 Kenyanjui Penny K Mrs 281-6585
5911 Comfort Screen & Window Co 281-8967
Heinz Carl J ◎ 281-8967
5912 Coleman Mary L
5918 No Return
5919 Boom Christina Mrs ◎ 281-0417
5930★Batchelor Mary A Mrs ◎
5931 Mc Calmont James ◎ 282-1153
5945 Rose Vernon ◎ 281-3898

168
NE AINSWORTH ST INTERSECTS
6010 Rush Virginia R Mrs ◎ 284-1634
★Rush Oxis C ◎ 284-1634
6015 Davis Arth C 287-0948
6024★Cox Sandra Mrs ◎
6025★King Timothy J ◎ 288-1812
6034 Washington Edw J ◎ 284-1743
6037 Vacant
6104 No Return
6105★Strachan Joyce Mrs
6115 Busch Ralph R ◎ 287-7792
6116 White Crucita Mrs
6121 Bittman Phillip
6126 Benjamin Rita A
6132★Lewis Huberta 241-2901
6133 Wright Myron N ◎ 282-9298
6201★Harper James G ◎ 288-0611
6206 Grizgby Charles 287-4649
6210 Smith John L ◎
6215 Tate Roland R ◎ 281-1587
6224 Hall Eliz Mrs ◎ 284-4452
6229★Jackson Sidney J ◎ 284-3412
6232 Paul Janitorial Service 282-0468
Paul Royal J ◎ 282-0468
NE HOLMAN ST INTERSECTS
6305★Morgan Melanie J ◎
NE HIGHLAND ST INTERSECTS
6405 Vacant
NE PORTLAND BLVD INTERSECTS
NE BELLEVUE AV INTERSECTS
NE MORTON ST INTERSECTS
6532★Symonds Eliz J
6536 Vacant
6547 Broyhill Warren ◎ 288-3087
NE LIBERTY ST INTERSECTS
NE LENORE ST INTERSECTS
NE JUNIOR ST INTERSECTS
6717 Hopper Hazel I Mrs ◎ 284-1426
6720★Bonelli Al P ◎ 285-6856
NE DEKUM ST INTERSECTS

174
NE DEKUM ST INTERSECTS
6810★Urban Anthony R
6815 Woodland Park Condominium Homes
Vacant
NE DEAN ST INTERSECTS
6817 Vacant
6819 Under Constn
6831 Vacant
6833 Under Constn
6835 Vacant
6837 Under Constn
NE SARATOGA ST INTERSECTS
6943 Vacant (3 Hses 6943-47)
6949★Eaton Matthew C ◎ 285-3360
NE WINONA ST INTERSECTS
NE BRYANT ST INTERSECTS
7038 Bennett Marie Mrs ◎ 289-4694
NE MORGAN ST INTERSECTS
7106 Witts Sidney
★Rose Larry
7132 Williams Robt L ◎
NE BUFFALO ST INTERSECTS
7207★Rogers J ◎
7224★Love Julius ◎ 285-2313
7327 Vacant
7225 Busby Thelma
7243★Gentry Sophie J
NE HOLLAND INTERSECTS
7334 Nozaki John I ◎ 289-2926
NE STAFFORD ST INTERSECTS
UP TRACKS INTERSECTS
NE LOMBARD ST INTERSECTS
NE LOMBARD PL INTERSECTS
7515 Northwest Protective Coatings Inc pnt applications 285-4631
7522 Retronics Inc whol tires 283-2231
NE RUSSET ST INTERSECTS
NE COLUMBIA BLVD INTERSECTS

932
13TH AV NW —FROM 1301 W BURNSIDE ST NORTH

ZIP CODE 97209
NW COUCH ST INTERSECTS
102 Blitz Weinhard (Stge)
NW DAVIS ST INTERSECTS
221 Platt Electric (Whse)
NW EVERETT ST INTERSECTS
300 Plancich Fish Inc 227-6416
318 Metz Sup (Addl Sp)
NW FLANDERS ST INTERSECTS
401 Carton Serv Whse
NW GLISAN ST INTERSECTS

13
NW HOYT ST INTERSECTS
NW JOHNSON ST INTERSECTS
NW KEARNEY ST INTERSECTS

934
NW LOVEJOY ST INTERSECTS
1039 Wilbur-Ellis Co (Whse)
NW MARSHALL ST INTERSECTS
NW NORTHRUP ST INTERSECTS
NW OVERTON ST INTERSECTS
NW PETTYGROVE ST INTERSECTS

912
1630 Burlington Northern Inc (Section Depts) 241-6286
NW SAVIER ST INTERSECTS
1705 Burlington Northern Inc (Yard Ofc) 241-6300

180
13TH AV SE —FROM 1300 E BURNSIDE ST SOUTH

ZIP CODE 97214
SE ANKENY ST INTERSECTS
SE ASH ST INTERSECTS
215 Gibson Leola J Mrs ◎ 234-3691
Mc Donald Chuck
216 De Busk John E 234-2597
218★Endsley Joyce ◎ 232-9892
225 Otey James C
226 Lincoln Loan Co 238-6658
Benson Harry V lwyr 238-6658
239 Nutrition Information Center tchg center 235-9672
SE PINE ST INTERSECTS
314★Lyter W M 234-4973
324 Vacant
SE OAK ST INTERSECTS
419 Farwest Graphics prntg equip whol 233-7679

232
SE MORRISON ST INTERSECTS
822 Morgan Thos W 234-0150
SE BELMONT ST INTERSECTS
900 Durland Coe I ◎ 234-1451
904 Ramsay Carla D 232-9582
915 Vacant
916★Lindstrom Ursula L ◎ 232-0089
923 Apartments
1 Boswell Bruce
2 Laky Mat 236-4455
3 Einbender D
4 Jones Clara B Mrs 235-9952
6 Sigfrid Gene E 233-2339
924★Brush Wanda L
924½ Vacant
SE YAMHILL ST INTERSECTS
1013 Korn Leon E investment broker ◎ 236-3766
1016 Swift Steve L 239-4847
1030 Haigwood Victoria L 236-5294
1032★Templeman Wm J 239-7252
1034★David James 232-3415
1036★Holmes Wanda K
SE TAYLOR ST INTERSECTS
1106 Claire Apartments 231-8305
1★Blazier Geo L 235-5621
2 Carlile Don
10★Stranberg Stirling
11★Schell Hester
12★Bokor Judith
13★Watson Craig
14★Smith Terry
15 Kelsey Cheryl
16★Bentley Bruce
20★Streiff Debbie
21★Richardson Timothy A 234-2383
22★Lee Leonard 232-4891
24★Hanson David
25★Carlile Ellen B
26★Bradley Tad
30 Sanders Walter H
31 Christensen Nellie 232-4421
32 Sherman
34 Plummer
35 Sperzel Gerd A 232-8557
36 Fong Louis 232-9815
SE SALMON ST INTERSECTS
1223 Chisler Danl L ◎ 235-0123
SE MAIN ST INTERSECTS
1303 Vacant
1315 Apartments
A Schultz
B Temple
C★Mc Donald K 235-2439
D★Melhus Bruce 232-2871
SE MADISON ST INTERSECTS
1421 Ervin & Caudle cpa 233-7553
SE HAWTHORNE BLVD INTERSECTS

244
SE DIVISION ST INTERSECTS
ZIP CODE 97202
2513 Hickman Michl D 232-8259
2514★Mc Clanahan Mary K 236-2003
2518 Edwards Doug 239-4870
2519 Hynes G D
2525 Magnuson Melvin B ◎ 236-3301
2526 Nelson Michl C 232-6868
2528 Winfree Wm H
2534 Barncord Robt R 235-1472
2537★De Fad Wm H 232-3652
SE IVON ST INTERSECTS
2615 Ladd Pamela
SE CLINTON ST INTERSECTS

274
SE POWELL BLVD INTERSECTS
3111 Warren Dean Plumbing 236-4152
SE KELLY ST INTERSECTS
3205 Image Graphics prntrs 231-5659
Abilco 233-1161
3208 Ortho-Med Inc orthopedic sup ret & whol 234-9691
3215 Wood Marion L ◎ 236-4269
3216★Kingsley Paul D 232-2865
3223 Carlson Eunice E Mrs ◎
3226 No Return
3234★Thresher Wayne Rev 236-2443
3237 Tiger Steve R 239-4992
SE FRANKLIN ST INTERSECTS
3309 Shade Tree Apartments The
1★Jassim Hassan 232-6667
2 Burns Timothy M
3★Martin D
4★Nguyen Quang Huy 239-7783
5 Babic Kathleen M Mrs
6 Bye Marty L
7★Wolf John 238-1219
8 Maxwell David W
9 Muller A
10★Barber Robt
3316 Schoose Gary L ◎
3324 Krausse June A Mrs ◎ 236-6619
3325★Hamill Robt B III ◎ 232-3545
3334 Drake Gary ◎
SE PERSHING ST INTERSECTS
3352 Vacant
3353★Leonard K R 236-8184
3364★Lee Edw Y 236-9468
3367★Chin Fook W ◎ 234-4029
3372★Wicks Milo L ◎ 236-6774
3352 Vacant
3353 Sorenson S ◎ 236-8184
Donard Ken S
3356 Mitchell Steph ◎ 234-4133
3364 Healy Philip J 236-4627
Stump John D 233-1365
3367 Chin Mak Mrs ◎ 234-4029
3373 Haynes Richd D 238-1412
3383 Palmer Gary E 233-1979
SE HAIG ST INTERSECTS
3405 Nelson Wm R ◎ 233-2307
3411 Splawn Glenn W ◎ 236-7982
3414 Brooks Richd W 232-5537
3417 Bouchard Mary B Mrs ◎ 235-7041
3424 Hoag John B ◎ 236-6688
3434 Furlow Gary R ◎ 239-4041
3435 Dale Ronald Apartments
1★Pierce Jerry L 239-6986
2 Althtara Donna
3★Chavez Juan 236-0135
4 Keim Jean W Mrs 236-3229
5★Haskins Margt
6 Fay Edw W 231-0381
7 Kludt Eliz A 235-0073
8★Hartman Linda 239-6986
9 Talat Kauser 238-6856
10 Vacant
SE RHINE ST INTERSECTS
3502 Jackson Charles A ◎ 235-1466
3505 White Robt S ◎ 235-6048
3518 Schmunk David 236-7449
3523 Gerani Lynn M 235-9484
3524 Anderson John C ◎
SE LAFAYETTE ST INTERSECTS
3601 No Return
3604 Werner Eric R 234-8078
3611 Ritchies Upholstery 232-4940
3614 Dahlgren Ted P ◎ 235-4244
★Willhalm Larry 233-2306
3622★Keylock Kelly R 232-7419
3624 Nelson Linda
3625 Fisher M Jack ◎ 236-2094
3628 Scruggs Connie S Mrs ◎ 235-4948
3640 Hieter Kenneth L 231-3838
SE RHONE ST INTERSECTS
3704 Vacant
3705★Stieben Susan Mrs
3706 Bailey Steph 238-1674
3716 Lovely Peter S 232-2380
3721 Apartments
Morgan Robt Apts 232-7620
1 Velarides Patricia A Mrs
2 Hester Warren
3 Strickland Rita Mrs
4★Lebo J
5 Weirich Steph W 231-9482
6★Richmond N
7 Berry Rosann 232-2821
8 Bellamy Kermit J 232-7620
9 Davis Dorothy Mrs
10 Weldon Lydia H 232-7761
3724★Mehner Donald A 232-0400
3726★Kennedy Carl J
3734 Allen Michl E ◎ 259-5549
SE BUSH ST INTERSECTS
3803★Cooke David 235-9280
3804★Redwine Roxanne 231-0184
3818 Amerman Lorena E Mrs ◎ 235-8282
3828 Skralskis Robt A ◎ 234-7105
3838 Franel Myrna J Mrs ◎ 235-6815
3848 Johnson Lloyd G ◎ 231-6347
3904★Turner James L 231-0276
3914 Paulson Gerrald F ◎ 239-4614
3924 Peragine Tony J ◎ 234-2338
Buffet Purcer Patricia A Mrs ◎ 235-4447
SE CENTER ST INTERSECTS

278
ZIP CODE 97201
SE MARTINS ST INTERSECTS
6106 Younger Margt H Mrs ◎ 236-5133
6111 Mayer Brunswick R ◎ 232-3539
6115 Mayer Ronald D ◎ 232-7363
6120 Singer Jack I ◎ 235-5526
6129 Stainbrook Patricia A Mrs ◎
6138 Brautlacht Wm J ◎ 234-6768
6139 Lang Loyal C ◎ 235-6134
SE CARLTON ST INTERSECTS
6209 Staats Harold E ◎ 235-4663
6225 Douglass Herbert M ◎ 236-5221

328
6309 Stelter Dennis R ◎ 236-5895
SE HENRY ST INTERSECTS
SE BYBEE BLVD INTERSECTS
7018 Graham Clyde S ◎ 232-4879
7030 Sorenson B M ◎ 234-7882
7060 Smith Curtis C ◎ 236-9179
SE RURAL ST INTERSECTS
7104 Moe Conrad R ◎ 236-8915
7114★Stuart Bertha H
7138 Vacant
7152 Eckley Mathilde Mrs ◎ 232-3604
7214 Vacant
7215 Willamette View Chiropractic Center 238-7025
Platt David A
7230★Mc Grath James ◎ 236-5507
7237 Apartments
1 Owens Danny 232-3414

LICENSED - BONDED
(IN PORTLAND): 289-3851

NW FRONT AVE 1981

NE FREMONT ST—Contd
NE 97TH AV INTERSECTS
8702 Troxel Edna M Mrs ◎ 253-3207
8707 Rea John C ◎ 254-1262
8714 Exton Earl 256-5829
8723 Anderson Jerry S ◎ 253-7715
NE 87TH PL INTERSECTS
8737 Loth Hilda D Mrs ◎ 253-9324
8744 Campbell Charles G ◎ 254-4397
8745 Jones Theo E ◎ 252-6624
8757 Souders Doyle E ◎ 254-4457
NE 87TH AV NE INTERSECTS
8814★Phaskas Richd C 257-8211
8853 Fincher Carl L ◎ 253-6132
8867 Spano Conchita Mrs ◎ 254-1344
NE 86TH AV NE INTERSECTS
8907 Vacant
8915★Sanders Marvin A 257-6815
8916 Gibbons Charles A ◎ 253-2780
8925 Vacant
NE 90TH AV NE INTERSECTS
9011 Blum John H ◎ 254-1805
9025 Draheim Lida K ◎ 253-1571
9030 Pratt Fevrel W ◎ 252-2536
9038 Nielsen Richd L ◎ 255-9840
9041 Lidstrom Robt W ◎ 254-0815
9201 Vacant
9210 Mauchley Dean E ◎ 253-9854

921
FRONT AV NW —FROM 1 W BURNSIDE ST NORTH

ZIP CODE 97209
5 Pacific Orient Imports 228-2293
NW COUCH ST INTERSECTS
NW DAVIS ST INTERSECTS
NW EVERETT ST INTERSECTS
NW FLANDERS ST INTERSECTS
NW GLISAN ST INTERSECTS
632 Vacant

922
NW BROADWAY ST INTERSECTS
1118 Carnation Co (Milling Div) feed mill 226-6721
1300 River Queen restr 228-8633
1362 Centennial Mills (Flour Mill) 221-0830
NW 9TH AV INTERSECTS
1464 Centennial Mills Inc flour 221-0830
1468 Associated Wholesale Hardware Inc 226-2625

912
ZIP CODE 97210
2047 What's Up Dock restr & bar 227-7842
2100 Municipal Terminal No 1 (Stge) 233-8331
U S Customs-Dock Insp Ofc 221-2660
2211 Standard Steel Tubular Products 224-9464
2279 Emerson Hardwood Co whol lmbr 227-6414
2303 Standard Steel (Whse)
2500 Municipal Terminal No 1 233-8331
NO 21ST AV INTERSECTS
2530 Vacant
2545 Portland General Electric Co (Transformer)

927
NW NICOLAI ST INTERSECTS
2800 Bingham Willamette Co custom pump mfrs 226-5200
Willamette Iron & Steel Co fabricators 226-5579
2831 Hi Neighbor gros 222-2737
2855 Interstate Tractor & Equipment Co 243-6400
3045 Vacant
3065 A-R-A Mfg Co air conditioning whol 227-1849
3070 Municipal Term No 2 (Supt Ofc) 233-8331
3075 Galley The restr 228-2991
3079 Kelly-Goodwin hardwood fl distr 222-1604
3085 Campbell Chain mfrs 223-4187
3125 Daaic International (Plant) 222-2938
3147 Mc Cracken Bros Motor Freight Inc 222-4291
3245 Viking Automatic Sprinkler Co 227-1171
3333 Dayton Tire Sales Co 228-9363
3345 De Fabco truck repr 224-0133
3445 Gray's Crane & Rigging Inc 228-6100
NW 26TH AV INTERSECTS
3630 Port Of Portland (Dredge Field Ofc) 231-5000
Municipal Terminal No 2 pier 231-5000
3641 Mc Breen Trucking 227-5642
Fitchett Truck Co 227-6481
3653 Thermacote-Welco whol wldg supe 224-3970
3657 Goodall Rubber Co (Br) rubber prod 227-1259
3677 Alco Anaconda mtl dlrs 224-2763
3680 City Fire Bur-Eng Co No 106 227-6175
City Fire Bur-Fire Boat No 2 227-6175
3683 Lincoln Electric Co 228-8858
3710 Western Transportaion Co 221-0933
3721 A L Welding Products (Retail Store)
A L Welding Products welding sup & equip 224-4321
3838 Waterway Terminals Co mdse whse 226-6901
4250 Schnitzer Steel Prods 224-9900
4350 F M C Corp (Marine Eng Dept & Rail Div) 228-9281
F M C (Purch Dept) 228-9281
4700 F M C Corp steel fabricators 228-9281
4701 Vacant
4850 F M C Corp (Marine & Rail Equip Div) 228-9281
4900 Kerry Log & Rafting Co 228-6850
Pacific Marine Communications Co mobile tel serv 228-8850
Shaver Transportation Co towing 228-8850
4927 Acme Trading & Supply Co scrap mtl 227-5501

928
NW KITTRIDGE AV INTERSECTS
4900 Shaver Transportation Co Inc trans 228-8850
4927 Acme Scrap Metal Co 227-5501
4959 Airco Welding Products equip & sup 228-0400
5005 Chemlime Corp chem mfrs 224-3290
5200 Tube Forgings Of America mfs seamless steel wldg ftgs 241-9265
4580 Mc Call Oil Co (Marine Terminal) 221-5755
5500 Douglas Oil Co Of California (Asphalt Terminal) 223-6537
5501 Chevron U S A Inc asphalt mfrs 221-7811
5700 Flintkote Co (Pioneer Division) roofing matls 228-6411
5825 Standard Oil Co Of California (Stge)
5924 Stand Oil Co Of Ca (trans dept) 221-7890
NW DOANE ST INTERSECTS
6345 Shell Oil Co (Asphalt Plant) 223-2790
6350 Bird & Son Inc asphalt roofing products mfr 222-1307
6400 Washore Mechanical Inc mech eng 224-5247
Peanwalt Corp 228-7655
Pilcher J R Construction Inc genl bldg 227-7256
ZIP CODE 97229
6529 Liquid Air Inc (Acetylene Plant) 224-4321
7000 City Ofcs-Guilds Lake Pumping Station
7200 Under Constn

49
ZIP CODE 97231
NW 106TH AV INTERSECTS
10629 Peterson Dorene V Mrs 286-8573
Lawson Robt
10637★Parent Vicky 286-4819
NW 109TH AV INTERSECTS
10921 Kristin Veronica Mrs ◎
10937 Padden Steel Inc steel fabrication 286-5851
NW 110TH AV INTERSECTS
11033 Kovach Anna Mrs ◎ 286-0888
NW 111TH AV INTERSECTS
11104 West Coast Adhesives Co plywood adhesive mfgs 286-3515
11105★Maagloe Roland J 286-2356
11125 Vacant
NW 112TH AV INTERSECTS

901
FRONT AV SW —FROM BURNSIDE ST SOUTH 1 EAST OF SW 1ST AV

ZIP CODE 97204
SW ASH ST INTERSECTS
111 Edlefsen Tom Associates Inc int designers 222-1031
113 Office Building
FLOORS
2d Fl Design Studio graphic designers 227-7247
2d Fl Michel Chris graphic designer 227-1362
Type & Design Graphics 223-2099
2d Fl Hanson Dunshugh Vaivoda Architecture & Planning 224-0110
OFFICE BUILDING
FLOORS
1st Fl Vacant
2d Fl Systems Improvement Associates date processing consultants 227-6591
2d Fl Geseford Richd L & Assocs archts & planners 226-2361
3d Fl Riesland Wm And Associates 226-1074
3d Fl Arkitektgruppe archts & planners 223-7018
SW PINE ST INTERSECTS
233 Two Thirty Three Sw Front Building
Rooms
101 Nickerson & Brice (Addl Sp)
102 Nickerson Wm A Realty 248-0700
102 Front Street Homes real est 248-0700
103 Equip Rm
104 Vacant
105 Vacant
200 Orth Clifford Realty 227-2421
200 Orth Advertising & Public Relations 224-0576
200 Orth Clifford Properties Inc 227-2421
200 Orth Clifford Construction Co Inc 227-2421
201 Barnes Hilgers Maslen & Associates archts 226-7628
STREET CONTINUED
235 Masters Mates & Pilots off shore div 228-3521
237 Photo & Sound coml photos 222-1664
Audio-Visual Rentals & Services 222-1664
SW OAK ST INTERSECTS
SW STARK ST INTERSECTS
433 City Center Parking Inc

913
SW MORRISON ST INTERSECTS
727 Vacant
737 Sacks Front Av tavern 222-5217
SW YAMHILL ST INTERSECTS
800 Mill Ends Park
801 Vacant
823 Chuck's Steak House restr 226-0256
SW TAYLOR ST INTERSECTS
SW SALMON ST INTERSECTS
1020 City Bur Of Facilities Mgmt 248-4380

926
ZIP CODE 97201
SW MAIN ST INTERSECTS
SW MADISON ST INTERSECTS
SW JEFFERSON ST INTERSECTS

157
SW COLUMBIA ST INTERSECTS
1401 Portland Marriott Hotel The 228-7600
Pazzio's Cafe 226-7600
King's Wharf The restr & lounge 226-7600
Gambits The cocktail lounge 226-7600
Lobby Marriott Gift Shop The 226-7600
Marriott Lobby Bar The 226-7600
Marriott Fitness Center The spa sauna 226-7600
SW CLAY ST INTERSECTS
SW MARKET ST INTERSECTS
1605 Riviera Motars Inc auto dlrs 226-3831
SW HARRISON ST INTERSECTS
1720 Vacant

159
SW LINCOLN INTERSECTS
2039 Vacant
2145 Boy Scouts Of America (Columbia Pacific Council) 226-3423
SW FOOTHILL FREEWAY INTERSECTS
SW SHERIDAN ST INTERSECTS
SW ARTHUR ST INTERSECTS
SW MEADE ST INTERSECTS
2802 Vacant
2804 Roberti Danato ◎ 228-7808
2828 K O A P-F M-TV 229-4892
Oregon Educ Pub Broadcasting Serv (O E P B S) 229-4847

175
SW HOOKER ST INTERSECTS
SW PORTER ST INTERSECTS
3022 Vacant
SW WOODS ST INTERSECTS
SW GROVER ST INTERSECTS
3223 Hewlett Jamison Atkinson & Luey archts 228-9468
SW GIBBS ST INTERSECTS
SW WHITAKER ST INTERSECTS
3405 Massey Nemi
3417 Cornwall John M ◎ 222-3098
SW CURRY ST INTERSECTS
SW PENNOYER ST INTERSECTS

207
FULTON PARK BLVD SW —FROM 6901 SW CORBETT AV SOUTHEAST

ZIP CODE 97219
7204 Papa Benedict D 246-9235
7240 Kowals Jack mfrs rep ◎ 246-9265
7312 Ingalsbe J Gail Mrs ◎ 244-3809
7336 Langoe Shirley M Mrs 246-0908
7406 Stenarud Richd E ◎ 246-4025
7409 Ward Jerry L & Assoc 246-0746
Ward Jerry L ◎ 244-9084
7416 Bostwick James W ◎ 246-8118
7446 Livengood Jack ◎ 245-2325
7600 Inglesby Thos W 246-5206
7530 Weber Charles H ◎ 244-1240
7540 Keswick Lee A Jr ◎ 246-2938
Adlong Jeffrey C 245-6182
SW HOOD AV INTERSECTS
7543★Austin Gene R ◎ 244-7114
SW FULTON PARK PL INTERSECTS
7570 Vacant
Paygr Steven 246-9653
Santiago Louis A 245-3851
7580 Darcy S J 246-8171
7590 Anderson Richd C ◎ 244-8408
7615 Larson Staph 245-4865
7643 Pasternak Edw J 244-9709

207
FULTON PARK PL SW —FROM 7535 SW HOOD AV SOUTH

ZIP CODE 97219
7575 Mc Nabb Andrew J ◎ 244-3670
7585 Worden Ray H 246-0020
7595 Vacant
SW CUSTER WAY INTERSECTS
7616 Parker Thos W ◎ 244-2642
7624 Scroggs Lawrence L ◎ 244-8315
7634 Entwisle Thos ◎ 244-7820

179
GAINES ST SW —FROM 3701 SW MOODY AV WEST (NUMBERS CORRECT AS LISTED)

ZIP CODE 97201
SW MACADAM AV INTERSECTS
SW HOOD AV INTERSECTS
0322 Vacant
0321 Carney Gil
0320 Vacant
SW KELLY AV INTERSECTS
0232 Oliver Jay Apartments
1★Gerhart Paul 224-7651
2★Dwar R
3★Lay Penny 224-9003
4★Phakasoum Ked 224-9718
5★Johannes Darrel 224-2085
6 Rahmig Sandra L 224-9537
7 Hammel
8 Benedict
9 Padrow
0230 Apartments
21 Loach R A 224-0111
22 Johnson
23 Higgins
24★Jackson Neil W 241-9438
25 Magnuson
26 Bryant
STREET CONTINUED
0216★Menserraw Sarah
0215 Schairmbaum Herbert G 223-9850

175
SW CORBETT AV INTERSECTS
0107 Munch John M 224-1378
SW HARBOR DR INTERSECTS
SW BARBUR BLVD INTERSECTS

173
U S VETERANS HOSPITAL RD INTERSECTS
707 Crippled Children's Division U Of O Hsc 225-8362
SW 9TH AV INTERSECTS
908 Gainesview Manor apts 241-0120
25 Reiter Rose J 223-2013
26 Bergstrom Ted 224-3647
27 Petersen Ronald R 241-0786
28 Hays M L 277-6807
29 Seabold Harry C 222-1540
30 Rice Lorin W 223-2606
31 Foster Scott 248-0257
32 Crumme Douglas C 226-0025
909 Deeta Marcel M Mrs ◎ 228-4633
918 Gainesview Manor apts
1 Stone Janet 224-4079
2 Marcum Molly K 222-9683
3★Sauerwein Mark
4 Boehne Rebecca 224-9499
5 Boyle Patk 241-0093
6 Richardson Douglas L 241-0828
7 O'Neill Terry M 248-9846
8 Crawford Steven A 223-7210
9★Hogevoll Benson L 241-1013
10 Marcy Marilyn A 224-2609
11 Tong Alex W 226-0001
12 Hermens Ken A 227-0804
13 Mersereau Bradford 228-0678
14 Lae Marcus 223-7491
15★Aaring Richd
16 Wallickie Joseph
17★Sorlien Bob
18 Chock Kyle 228-2204
19 Mizuno Tomikazu 224-3205
20★Gianelli Laura
21 Sabin Michl 224-9271
22 Bachuber Thos 241-0120
23 Menasco Gaye 224-5941
24 Saucy Danl D
STREET CONTINUED
924 Eyberg Richd O 226-3976
925 Darling Stephen 223-3762
927★Dahl Arth
931 Vacant
934 Neal Wm D 224-9463
SW 10TH AV INTERSECTS
1004 Eleventh Avenue & Gaines St Apartments 233-6778
Eickelberg Steven J 224-9996
1006 Hochhalter Susan J 224-7334
1007 Charmel Apartments
★Tucker Wilma M 222-4963
1009 Wennevold Bettie D 248-0979
1010 No Raturn
1011 Genskow Gordon L 241-0788
1012★Shively Norm 222-3391
1013★Marshall J Gordon 222-5499
1014★Trierweiler Rosemary 227-2885
1015 Del Zoppo Gregory
1016★Mc Coy Joseph W Jr 241-9066
1017 Sorlien Robt J 241-0325
1019 Bergdahl Bruce 224-3985
1020★Bates Charles C 241-9316
1022 Mc Donald Lani 222-0064
1024 Chorzempa Janelle E
1025 Hillcrest Apartments
Clark Mary A 223-4429
1026★Clark Lee Ann 224-1740
1027 Horton Edith L Mrs 228-3251
1029 Antolini Q 222-2380
1030 Haney Harry H 222-5949

TeleCheck
2828 S.W. Corbett, Cascade Plaza, Suite 222
503-222-7222
Portland, OR 97201
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TP	Adjoining	Source
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NW 13TH AVE 1975

NE 13TH AV—Contd
2627 Angel Rexford @ 287-5348
2628 Arron L Mrs @
2633 Porter Aristle @ 287-4764
2634 Austin Burnett E @ 281-4815
NE KNOTT ST INTERSECTS
2711 Sango Travis L @
2712 Seamaster Richd @ 288-1522
2726 Phillip Mary Mrs 282-5175
2727 French Lucille O
2736 Taylor Walter 284-0557
2742 Thomas Charles E @
2747★Miller Robt G @ 281-7801
2806★Anderson D @ 281-1616
2807 Sasaki Masajiro T @ 288-2437
2812 Streeter Herbert
2813 Loughney Alan W @ 282-3122
2822 Montgomery Willie D @ 282-0144
2823 Johnson Willie P @ 287-5317
2833 Mezyk Joseph F @ 287-3228
2836 No Return
2843★Aboussie Richd T 281-6394

118
NE STANTON ST INTERSECTS
2917 Johnson Harold L @ 284-0294
2920 Grover Kathryn L Mrs @ 281-7178
2927 Williamson Richd B 288-2637
2933 Minor Steve @ 287-8948
2938 Smale Norman C @ 287-6758
2943 Leer Gary H @ 288-0714
2946 Zumwalt Hallie P Mrs @ 281-9026
3002 Pond Marvel A Mrs @ 282-1604
3003★Pitney Patricia A Mrs @ 288-9971
3016 Mc Bride Byron D @ 284-6447
3017 Pedersen D C @ 281-2612
3022 Graham Odell @
3023★Nicholas Ivory 282-0297
3036 Thomas Lucile Mrs @ 281-3892
3037 Rush Bolden @ 284-4987
NE SISKIYOU ST INTERSECTS
3111 Cabine Monroe @ 284-3393
3112★Sherman Craig M @ 287-9226
3121 Jenkins Willie L @ 284-8250
3122 Rudolph Christina Mrs @ 284-8576
3131 Wright Robt @ 282-5413
3132 Day Yvonne E Mrs @ 287-7726
3145 Mc Millan Larce @ 287-0071
3146 Leong Frank P @ 288-2275
3202 Johnson Karthear @
3203 Johnson Aldridge @ 282-4951
3211 Stewart Billye
3212 Derby James B @ 281-9863
3222 Harlow Florence E Mrs @ 281-8723
3223 Harris Fred @ 281-5511
3232★Samson Bruce @ 288-2516
3233 Odom Wm B Jr @ 282-6937
3242 Shepherd Alonzo @ 287-5237
3243★Robinson Kay A Mrs 281-3777
NE KLICKITAT ST INTERSECTS
3303 Harris Tony
3306 Stepton Michl @
3311 Woods Wm H @ 284-3093
3312 Vacant
3321 Martin Andrew L @ 281-9128
3322 Johnson Gloria Mrs 287-3128
3332 Mc Neal Alt @ 281-4407
3333★Nash Lucille 284-4840
3342 Warren Henry @
3343 Aiken Margt M Mrs @ 284-5217
3402 Vacant
3403 Caples Madeline L Mrs @ 281-2574
3415 Youngblood Clyde L @ 287-7369
3416 Kelleher Jack J @ 281-8581
3425 Poole John @ 288-4294
3426 Gower Michl C @ 284-5126
NE FREMONT ST INTERSECTS
3505 Rogers John C @ 281-0995
3514 Washington Rometa E Mrs @ 281-3288
3515 Hallman Edw W @ 284-0082
3524 Scott Richd A @ 281-1642
3525★Aviles Patty Mrs
3534 Vacant
3535 Pesonen Ina Mrs @ 284-5009
3602 Hughbanks Jackson @ 284-2257
3607 Vacant
3613★O'Dell Jeanny 282-6630
3615 Vacant
3616 Boyd Thurman @ 282-1194
3623 Vacant
3626★Harris Corinne Mrs
3627 No Return
3633 Weitzel Raymond garbage collr @ 281-5652
3634 Smith Helen Mrs
Sherman Gussie C Mrs 284-4812

124
NE BEECH ST INTERSECTS
3712 No Return
3713 Miller Kath Mrs @ 287-9028
3723 Love Cleo @
3726 Vacant
3730 Tacker Leazer G Mrs @
3731 Strohecker Kenneth F @ 284-0568
3804 Schlitt Marie Mrs @ 287-7927
3807 Schleining John @ 282-4611
3811 Carter Vernon L
3816 Allen Paulette E @ 281-3788
3827 Schleining Alice Mrs @ 288-1358
3828 Williams Grant @
NE FAILING ST INTERSECTS
3916 Jones Delphia M Mrs @ 284-3742
3919★James Ellie
3927 Vacant
3928 Bishop Harold @ 281-3576
3937 Arndt Geo H landscape gdnr @ 281-4602
3938 Jones Christine Mrs @ 282-2926
3946 Karamanos Basil T @ 282-4226
3947 Cook Milo R @ 284-2428
3957★Deskins Lisa
3958 Vacant
3967 Hensley Josephine Mrs @ 281-5121
3968 Miller Alex @ 282-1271
NE SHAVER ST INTERSECTS
4003 Cole Genora Mrs 284-4142
4015 Franzel Glenn L @ 284-2616
4016 Vacant
4022 Hagood Phyllis S Mrs @ 288-1022
4025 Byrd Leroy @ 284-7473
4034 Lichtenwald C Gus @ 281-7621
4037 Scott Willie @ 282-8882
4047 Archie Lillie Mae Mrs
4054 Woods Dorothy L @ 284-0790
4057 Hodges Tommy J @ 288-1166
4066 Holland Carrie Mrs @ 282-2157
4067★Allen Pora 288-3701
NE MASON ST INTERSECTS
ZIP CODE 97211
4104 Triplet Audrey Mrs
4116 Vacant
4124 Mc Duff Calbert @
4125★Hoekstra Dan 281-9131
4135 Ferguson Alrenzo 281-5881
4206 Ross Henry @
ZIP CODE 97202
4207 Vacant
4214 Vacant
4224 Hoy Hildegard E Mrs @ 282-1363
4234 Mc Eachern John M @ 281-4024
NE SKIDMORE ST INTERSECTS
4303 Tacheppe Herbert R @ 284-7146
4310★Christmas Nick Jr 287-9728
4315 Byrd Herbert @ 288-3166
4323★Williams Edw
4326★Coat Eddy
4405 Stewart Ethel Mrs
4406★Taylor Charles E 281-1421

144
NE PRESCOTT ST INTERSECTS
4513 Carras Geo A @ 282-4768
4525 Maney James F @ 284-1807
4526 Urbach John @ 281-8907
4534 Harris Charles J Jr @
4535 Thomas Marie A Mrs @ 281-9016
NE GOING ST INTERSECTS
4605 Jones Atwood P @ 282-1666
4621 Blacknall Reese 288-3358
4622 Howard Yvette Mrs 282-3647
4705 Averchuck John @
4714 Ross Ivery V @ 282-8821
4715 Vacant
4726 Lipskey Emma P Mrs @ 281-5608
NE WYGANT ST INTERSECTS
4804 Reynolds Robt E 288-1925
4812★Love Leonard @ 288-2616
4813 Hollins Ileen L Mrs @
4822 Gunner Edgar 287-8528
4823 Zillman Sarah J Mrs @ 282-6155
4830 Evans Martha Mrs 288-8978
4831 Scott Loraine Mrs @
4840 Webb John W 282-9218
4841★Beaty Mary-Lynn Mrs 281-3605
4845★Coffee Irwin 281-9085
No Return
4846 Nelson Effie M @ 281-4012
4856 Taylor Igusta @ 284-7612
NE HUMBOLDT INTERSECTS
4902 Budscard Myrtle Mrs @ 284-1219
4905 Barrett Janice I 288-0650
4911★Easley Peggy
4912 Hathaway Herbert H @ 288-2915
4918★Coleman Shirley A
4919 Grosse C Edith @
4927 Fraser Gretta L Mrs @ 282-1606
4928 Hart Leon @ 282-1559
4935 Nash Marvin @ 281-8034
4936 Becker J J @
4946 Winter Lelah M Mrs @ 287-4413
NE ALBERTA ST INTERSECTS
5003 Hileman Jean
5011 Stevenson Wallace A 287-3188
5020 Vacant
5021★Bryant Essie 282-4424
5028 Garner Alex @ 284-5633
5029 Avent Eleanor M Mrs
5034 Vacant
5035 Finck Solomon C @ 287-0351
5044 Killmon Wm 282-0254
5045 Foughty Orton P @ 284-7411
5050 Jenkins Granville @
5051 No Return
NE WEBSTER ST INTERSECTS
5112 Bratberg Gina M @
5121 Nesbit Harry L 282-7545
5122 Mc Gowan Fanny Mrs 282-9030
5128 Warneke Ida A E Mrs @ 282-9483

150
NE WEBSTER ST INTERSECTS
NE SUMNER ST INTERSECTS
5210 Davis Hazel I Mrs @
NE ROSELAWN ST INTERSECTS
5265 Cole Lloyd C
NE EMERSON ST INTERSECTS
5312 Under Constn
5314 Vacant
5321 Douglass Fred C @ 288-9685
5322★Harris Roy 282-3923
5406 Ingolia Gary @ 288-8664
5420 Vacant
5430 Johnson Billy D 288-8527
NE KILLINGSWORTH ST INTERSECTS
5524★Evans Sherman 281-7166
5602 Vacant
5603 Vacant
5612 Hargrove Willie E @ 287-5974
5615 Scheid Carma Mrs @ 282-8209
5622★Bizel Roy B 282-6104
5625 Orr John L @ 284-5511
5633 Wilson Ellen J
5634 Baker Lloyd E @ 282-6516
5635 Raymer Willie
5702 Marshall James R @ 288-0314
5705 Vacant
5707 Strong Vickie D Mrs 281-5794
5712 Cole Erma F @ 287-1068
5713 Whitfield Henry L @ 288-1525
5723 Sweeney Bill
5733 Durdin Bobby @ 288-2138
NE JARRETT ST INTERSECTS
5807 Thomas C J 282-4888
5814 Vacant
5815 Hill Thos
5825 Warren Robt C 287-6920
5826 Hill Robt C Rev @ 287-5680
5832 No Return
5835 Hyndman Ruth Q Mrs @ 287-8654
5844 Vacant
5845★Lowe Kenneth 287-0107
5850 Carr Myrtle R Mrs @ 287-7976
5901 Lacker Carl F @ 287-4661
5904 Davis Wm M @ 281-8072
5911 Comfort Screen & Window Co 281-8967
Heinz Carl J @ 281-8967
5912 Vacant
5918 Gulliksen Olav C 282-3612
5919 Boom Christina Mrs @ 281-0417
5930 Butler Robt E @
5931 Mc Calmont James @ 282-1153
5945 Rose Vernon @ 281-3898

168
NE AINSWORTH ST INTERSECTS
6010 Rush Virginia Mrs @ 284-1634
6015 Keller John
6024 Mac Donald Wm C @ 282-6616
6025★Pace Gordon W 282-3171
6034 Washington Edw J @ 284-1743
6037 Howard Florence H Mrs @
6104 Davis Ceola Mrs 282-2772
6105 Mason Evelyn M Mrs 288-9034
6115 Busch Ralph R @ 287-7792
6116★Giles Melvina Mrs
6121 Daniels Pauleata W Mrs @ 284-0622
6126 Johnson Joe A 281-1009
6132 Kelly Cal Mrs 288-4236
6133 Wright Myron N @ 282-9298
6201★Cooper T A
6206 Briggs Richd C 282-6438
6210 Smith John L @
6215 Fambrough Marcellous T @ 287-2113
6224 Hall Eliz Mrs @ 284-4452
6229 Jackson Sidney J @ 284-0934
6232 Paul Janitorial Service 282-0468
Paul Royal J @ 282-0468
NE HOLMAN ST INTERSECTS
6305 Edwards Gilbert J @ 282-5302
NE HIGHLAND ST INTERSECTS
NE PORTLAND BLVD INTERSECTS
NE BELLEVUE AV INTERSECTS
NE MORTON ST INTERSECTS
6532 Lockett Harvey H
6536 Anderson Martin H 289-6076
6547★Broyhill Warren @ 288-3087
NE LIBERTY ST INTERSECTS
NE LENORE ST INTERSECTS
NE JUNIOR ST INTERSECTS
6717 Hopper Hazel I Mrs @ 284-1426
6720 Pierce Alma K Mrs 286-4257
NE DEKUM ST INTERSECTS

174
NE SARATOGA ST INTERSECTS
NE WINONA ST INTERSECTS
NE BRYANT ST INTERSECTS
7038 Bennett Reuben M @ 289-4694
NE WOODLAWN AV INTERSECTS
NE MORGAN ST INTERSECTS
7106 Nord Tamar J Mrs 289-5188
7132 Williams Robt L @
NE BUFFALO ST INTERSECTS
7207 Caito Geo @ 289-0746
7224 White Perry V @ 285-2313
7225 Jensen Clarence M @ 285-2676
7243 Williams Sally D @ 289-5893
NE HOLLAND INTERSECTS
7334 Nozaki John L Jr @ 289-2926
NE STAFFORD ST INTERSECTS
UP TRACKS INTERSECTS
NE LOMBARD ST INTERSECTS
NE RUSSET ST INTERSECTS
NE LONBARD PL INTERSECTS
7515 Northwest Protective Coatings Inc pnt applications 285-4631

932
13TH AV NW —FROM 1301 W BURNSIDE ST NORTH

ZIP CODE 97209
NW COUCH ST INTERSECTS
102 Blitz Weinhard (Stge)
115 Cromin Co The (Kentile Whse)
NW DAVIS ST INTERSECTS
221 Platt Electric (Whse)
NW EVERETT ST INTERSECTS
300 Plancich Fish Co 227-6416
NW FLANDERS ST INTERSECTS
401 Vacant
NW GLISAN ST INTERSECTS

13
NW HOYT ST INTERSECTS
No Return
NW JOHNSON ST INTERSECTS
NW KEARNEY ST INTERSECTS

934
NW LOVEJOY ST INTERSECTS
1039 Wilbur-Ellis Co (Whse)
NW MARSHALL ST INTERSECTS
NW NORTHRUP ST INTERSECTS
NW OVERTON ST INTERSECTS
NW PETTYGROVE ST INTERSECTS

912
1630 Burlington Northern Inc (Section Depts) 221-1300
NW SAVIER ST INTERSECTS
1705 Burlington Northern Inc (Yard Ofc) 221-1300

180
13TH AV SE —FROM 1300 E BURNSIDE ST SOUTH

ZIP CODE 97214
SE ANKENY ST INTERSECTS
SE ASH ST INTERSECTS
215 Gibson Leola Mrs 234-3691
216 De Busk John E 234-2597
218 Endsley Richd 232-9892
225★Nonne Steven 234-2192
226 Lester Steph 235-2438
239 Anderson Alan R 233-3823
SE PINE ST INTERSECTS
314★Lyter Suszan Mrs
324 Finan James R 236-6437
SE OAK ST INTERSECTS
419 Farwest Graphics prntg equip whol 233-7679

232
SE MORRISON ST INTERSECTS
812 Bostitch Stapler & Nailer Co 234-1307
822★Goodin Sally 234-3433
SE BELMONT ST INTERSECTS
900 Durland Coe I @ 234-1451
904 Ramsay Carla D 232-5932
915 Vacant
916 Lidstrom Ed @ 235-0009
923 Apartments
1 Vacant
2★Johnson E T 236-7613
3★Slater Patk
4 Jones Claire B
5 Sigreid Gino
6★Williams M J
924★Minks L V
SE YAMHILL ST INTERSECTS
1013 Korn Leon E investment broker @ 236-3766
1016 Price Iola Mrs @ 235-4448
1030 Talbitzer Howard J 232-5854
1032 No Return
1034 Marvin Maybelle V Mrs 232-9275
1036 Brunton Bethel B Mrs 235-6510
SE TAYLOR ST INTERSECTS
1106 Claire Apartments 233-1215
1★Davis A
2★Gross Jake
10★Hardy Mark O 236-8044
11 Chan Kwong Po 235-1689
12★Gerard R
14★Billings David
15 Hickson M
16★Meinke C
20 Penchard Norma
21★O'Brien Frank
22★Nelson L
24★Trepus S
25★Carlile J
26 Zook J C Rev 232-8016
30★Phillips Raymond
31 Christensen Nellie 232-4421
32★Krahn Randall 223-9750
34★Randolph Ron
35★Shore Wm
36 Fong Louis 232-9815
SE SALMON ST INTERSECTS
1223 Mayfield Edna M Mrs @ 236-8458
SE MAIN ST INTERSECTS
1303★Hanks Alf F 233-2221
1315 Apartments
A★Lane S
B Vacant
C★Randall G
D Lerner Mollie Mrs @ 232-4517
SE MADISON ST INTERSECTS
SE HAWTHORNE BLVD INTERSECTS

244
SE DIVISION ST INTERSECTS
ZIP CODE 97202
2508 Linnebur James E 232-1514
2513 Amato Rick 233-1528
2514 Brockhaus Bertha A Mrs 232-9631
2518 Booth Suzanne Mrs 238-1653
2519 Vacant
2525 Magnuson Melvin D @ 236-3301
2526★Johnson Caroline
2528★Taylor James
2534 Barncord Robt R 235-1472
2537 De Ford Shirley Mrs @ 236-5816
SE IVON ST INTERSECTS
2605 Karl Kurt
2615 Bennett Marjorie D 233-9846
SE CLINTON ST INTERSECTS

274
SE POWELL BLVD INTERSECTS
3111 Waco Scaffold & Equipment Co Inc 234-9783
SE KELLY ST INTERSECTS
3205 Multnomah Tile Co ceramic wall tile 234-7515
3215 Wood Marion L @ 236-4269
3216 Streimer Joseph F @ 232-0656
3223 Carlson Eunice Mrs
3226 Barker Dorothy A Mrs 236-2062
Barker David 236-5800

345 N.E. 8th Ave. Phone 503 - 238-9730 8654 S.E. Division ● Portland, Oregon 97266

NW FRONT AVE 1975

NE FREMONT ST—Contd
4615 Lewis Fay N Mrs ◎ 287-1447
4623 North Pac Tool Inc (Stge) 288-7221
4624 Innes Gladys E Mrs ◎ 287-5118
4627 Bee Office Services 284-2646
4633 Bert's TV Service 284-0611
4637 De Luxe Beauty Salon 287-9281
4641 Globe Tropical Aquariums & Pet Shop 284-4309
NE 47TH AV INTERSECTS
4703 Amalfi's Italian Restaurant 284-6747
4714 Van Scoy Ida 288-0566
4727 Associated Home Freezer Foods 282-5521
Blue Ribbon Food Service 282-5521
4751 Old Timer's Antiques The 281-5184
4753 Vacant
4759 Vacant
4765 Vacant
NE 48TH AV INTERSECTS
4824 Trip Larry E ◎ 282-1281
4831 Cornell's Woodland Park Lumber Co 287-1213
4832 Getch Gregory L ◎ 281-5229
NE 49TH AV INTERSECTS
4903 D & J Body Works 287-5242
4912★Smith Dale P
4915 Ten'till One Tavern 281-2322
4929 Conkling Charles & Sons Inc coml photogs 281-1135
4936 Bob's Messenger Service 288-7588
★Harris Bob 288-7588
4945 Vacant
4951 Yoshida Shiro

106
NE 50TH AV INTERSECTS
5005★Little Thos 288-0316
5015 Vacant
5024 Vacant
5034 Mulpass John W ◎ 282-7603
5055 Fremont Veterinary Clinic 282-0991
NE 51ST AV INTERSECTS
5103 Red Lion Tavern 284-1868
5111 Jones Hal Automotive 288-1130
NE 52D AV INTERSECTS
5230★Mc Nicholas Roger
5232★Ellis Wm H ◎ 287-2841
NE 53D AV INTERSECTS
5320 Vacant
NE 54TH AV INTERSECTS
NE 55TH AV INTERSECTS
5508 Akers Melva C Mrs 281-4183
5518 Strandberg Nora M Mrs 281-8666
5534 Simmons Donald W ◎ 281-3269
NE 56TH AV INTERSECTS
5624 R & R Super Market 284-1433
5625 Rose City Cemetery Assn 281-3821
5645 Harroun Jack Fremont Union Service 282-2078

104
NE 57TH AV INTERSECTS
5701 Vacant
5707 Wilson Studio Inc 287-7800
5710 Rose City Arco 282-0040
5711 Apartments
1 O'Flynn John B 284-3419
2★Register Fern 287-2740
3 Vacant
4 Royal Muriel
5713 Gladys' Beauty Salon 282-9977
5715 Ed's Barber Shop
5717 Wendt Elmer L
5721 Barnum Dollie S Mrs ◎ 281-0265
5725 Smith Frances A
NE 58TH AV INTERSECTS
5804 Allen John C 281-4254
5805 Amell Mary V Mrs ◎ 284-5977
5815 Brightbill John T ◎ 284-6218
5816★Rice Wm R 281-4776
5823 Wilcox Ben A ◎ 287-6925
NE 59TH AV INTERSECTS
5905 Wheeler Gay S ◎ 281-1846
5911 Dupaquier John A ◎ 281-1309
5914★Kiger Edw J ◎ 284-7288
5917★Hoogs Gerald ◎ 281-3462
5924 Sumner Dale C
5925 Carl Rose L Mrs ◎ 284-4479
5932 Davis Paul W 282-6098
5935 Levesque Wm H ◎ 281-3786
NE 60TH AV INTERSECTS
6021 Berry Robt E Jr ◎ 282-1038
6023★Frances Sophia Mrs
6024 Du Bravac Nicholas E ◎ 282-8188
6025 Burfitt Marguerite I Mrs ◎ 288-9907
6029 Mc Givney Robt F ◎ 287-5705
NE 61ST AV INTERSECTS
6101★Steele Charles R ◎ 288-4047
6115 Vacant
6116 Keller Geo ◎ 287-1935
6125 Dickey Howard
6126★Gibson Michl ◎ 282-0742
6127 George's Food Market 282-1631
6129 Rovon Inn The tavern 288-2944
6135 Security Locksmiths 287-7363
6137 Vacant
6139★Ryan Kenneth G
NE 62D AV INTERSECTS
6203 Parker Milton W ◎ 284-7185
6221 Harbert Melvin E ◎ 284-5714
6229★Chapman R E 282-0472
6235★Nicholson L E 281-7609
NE 63D AV INTERSECTS
6307 Kearns Dwain E ◎ 288-4617
6315 Knapp Glenn G ◎ 281-4994

102
NE 64TH AV INTERSECTS
6411 Romesmo Jason L 281-6371
6504★Haftorson Dan 281-9049
6511★Barton Paul D ◎ 288-9744
6537 No Return
NE 66TH AV INTERSECTS
6605 Black Gail M ◎ 287-0938
6629 Robbins E M 281-1445
NE 67TH AV INTERSECTS
6706 Fraser Charles E ◎ 284-0325
6715 Hilmer Milton A ◎ 282-6326
NE 68TH AV INTERSECTS
6825★Mitchell Wm R ◎
6835 Andrew Frank P ◎ 282-0467
NE 69TH AV INTERSECTS
NE 70TH AV INTERSECTS
NE 71ST AV INTERSECTS
NE SANDY BLVD INTERSECTS

92
NE 73D AV INTERSECTS
7305 Everist Bros Auto Specialists reprs 282-3241
7314 Sprecher Paul Insurance Agency 282-0989
7316 Doug's Hair-Em beauty salon 282-3719
7320 Coin-Op Dry Cleaners 284-6846
7330 Motor Exchange repr 288-6038
7333 State Liquor Control Comn Store No 33 284-7591
7337 Farmers Insurance Group 288-9257
NE 74TH AV INTERSECTS
7405 Randall Agnes Mrs 284-7257
7415★Hummert H A Mrs
7429 Hathaway Ralph V ◎ 287-3702
7430 Cec's Barber Shop 281-7126
7432 Vacant
7434 Vacant
NE 75TH AV INTERSECTS
7510 Webster Earl A ◎ 281-7142
7521 Rose Emma Mrs ◎ 284-5349
7524 Sliper Gloria A Mrs 254-9589
7534 Wood Christine H Mrs ◎ 254-4714
NE 76TH AV INTERSECTS
7610 Grace Lutheran Church 253-7338
7611 Dikeman Ethel L Mrs ◎ 282-0475
7630 Jordan Larry ◎ 255-6894
NE 77TH AV INTERSECTS
7717★Leo L M 288-1316
7722★Schneibel Eleanor Mrs ◎ 254-7768
7732★Woodruff Sandra
NE 78TH AV INTERSECTS
7837 Blackman Geo ◎ 282-8170
NE 79TH AV INTERSECTS
7911 Goodwin Saml M ◎ 281-0348
7931★Baltazar Steven S 281-3373
7934★Jordan Thos D 253-2035
NE 80TH AV INTERSECTS
8008 Baum Wm H ◎ 252-9327
8016★Long Mike
8024★Hekkala Ernest
8029 Kellum Glen A 288-3793
8035 Valder Oliver S ◎ 282-8835
NE 81ST AV INTERSECTS
8105 Padgett Bruce 288-0780
8107 Savage Minnie Mrs ◎ 281-4534
8110 Plaid Pantry 253-0376
8120 Mai-Tai Salon Of Beauty 252-2479
8130 Sally's Sample Shop 254-6403

90
NE 82D AV ITERSECTS
8245 First Orthodox Presbyterian Church 253-0695
83D AV NE INTERSECTS
ZIP CODE 97220
8315 Davis Geneva C Mrs ◎ 254-2298
8335 Bodenhagen Theo A ◎ 253-9008
8345 Cook Caley C ◎ 254-5745
8403 Vern's Styling Studio 252-5804
8405 Rose Villa Beauty Salon 253-5169
8407 Scriptomatic-Portland prntrs 253-3937
84TH AV NE INTERSECTS
8436 Akerill David L ◎ 254-1267
8454 Hasenkopf Gebhard A 253-8785
8464 Tweton Dennis D ◎ 252-3548
8504 Fuhrer Alfrieda Mrs ◎ 254-1875
8505 H 2 B 3 Contractors Inc 255-6350
H-2 B-3 Properties Inc real est 255-6350
8512 Redfield Helen E Mrs ◎ 253-2047
8515 Rose Villa Variety
8524 Daugherty Janet L Mrs ◎
8525 Cash'n Rose Villa Cleaners 253-9252
8534 Jacobson Ralph E ◎ 255-3903
8535 Shopeterra The gro 253-1353
8539 Nagel Geo 255-4134
8541 Solvason Wm R
8546★Steele Donald ◎ 256-1968
8547★Donelson Kathleen 252-9112
8549★Stevens Layne
8556 Hagen Robt L ◎ 253-7100
8557 Fetters Helen C Mrs 253-4848
8603 Stephens W J
8604 Asmes Betty L Mrs ◎
8605 De Beilis Wm V Jr bldg contr ◎ 255-8651
8607 Pizzo Joseph A ◎ 253-0522
8614 Barnard Kathleen J Mrs ◎ 254-2787
8624 Donaldson Don 254-4415
8625 Stribley Emily L Mrs ◎ 254-1148
8634 Haggard Don ◎ 256-4841
8644 Bunkuhl Paul E ◎ 254-2224
8645 Litchfield Geo A ◎ 254-1621
8702 Troxel Edna M Mrs ◎ 254-2843
8707 Prothe E Dorothy Mrs ◎ 254-1262
8714 Grindstaff Donald S ◎ 256-2514
8723 Anderson Jerry S ◎ 253-7715
NE 87TH PL INTERSECTS
8737 Loth Hilda D Mrs ◎ 253-9324
8744 Campbell Charles G ◎ 254-4397
8746 No Return
8757 Souders Doyle E ◎ 254-4457
88TH AV NE INTERSECTS
8814★Landham Joyce
8853 Fincher Carl L ◎ 253-6132
8867 Spano Leo ◎ 254-1344
89TH AV NE INTERSECTS
8907 Vacant
8915 Bridwell Luther W ◎ 254-9795
8916★Gibbons Charles
8925 No Return
90TH AV NE INTERSECTS
9011 Blum John H ◎ 254-1805
9025★Draheim L K ◎ 253-1571
9030 Pratt Fevrel W ◎ 252-2536
9038 Nielsen Richd L ◎ 255-9840
9041 Lidstrom Robt W ◎ 254-0815
9201 Judson Baptist College 252-5563
Lewis Robt F 254-9988
★Miller Edel S 252-0622
Fletcher Hall (Women's Dorm) 256-9015
★Rohler Philip 255-6379
Kevorkian Hall (Men's Dorm) 256-9332
★Robnett Tim 256-4975
Louie Hall (Men's Dorm)
★Payton Wm 254-5010
Madson Dall (Women's Dorm) 256-9429
Sammantha Hall (Men's Dorm) 254-3080
Sam Hall (Men's Dorm)
9210 Mauchley Dean E ◎ 253-9854

921
FRONT AV NW —FROM 1 W BURNSIDE ST NORTH

ZIP CODE 97209
5 Pacific Orient Imports 228-2293
NW COUCH ST INTERSECTS
NW DAVIS ST INTERSECTS
NW EVERETT ST INTERSECTS
NW FLANDERS ST INTERSECTS
NW GLISAN ST INTERSECTS
550 Western Transportation Co tow boats 226-1301
614 Vacant
632 Vacant

922
NW BROADWAY ST INTERSECTS
1118 Albers Milling Co feed mill 226-6721
1300 River Queen restr 228-8633
1362 Crown Mills (Flour Mill) 228-9441
NW 9TH AV INTERSECTS
1464 Centennial Mills Inc flour 228-9441
1466 Associated Wholesale Hardware Inc 226-2625

912
ZIP CODE 97210
2047 Dot's Stern Wheel restr 227-7842
2100 Municipal Terminal No 1 (Stge) 233-8331
U S Customs-Dock Insp Ofc 221-2710
2211 Standard Steel Tube Supply 224-9464
2279 Emerson Hardwood Co whol lbr 227-6414
NW 20TH AV INTERSECTS
2303 Public Dock Comn (Stge)
2500 American Mail Line Ltd (terminal) 223-9776
Municipal Terminal No 1 233-8331
NO 21ST AV INTERSECTS
2530 Portland Public Docks (Whse No 3)
2545 Portland General Electric Co (Transformer)

927
NW NICOLAI ST INTERSECTS
2800 Bingham Willamette Co custom pump mfrs 224-9720
Willamette Iron & Steel Co fabricators 224-9740
2831 Hi Neighbor 222-2737
2855 Interstate Tractor & Equipment Co 228-2333
3045 Walker Manufacturing Co whol auto parts 226-3636
3065 A-R-A Mfg Co air conditioning whol 227-1849
3075 Galley The restr 228-2991
3079 Vacant
3085 Campbell Chain mfrs 223-4187
3100 Dock Inspectors (Ofc)
3125 Vacant
3147 Mc Cracken Bros Motor Freight Inc 222-4291
3245 Viking Automatic Sprinkler Co 227-1171
3251 Vacant
3333 Dayton Tire Sales Co 228-9363
3345 Topline Rentals lift truck rentals 222-1222
3445 Grays Crane & Rigging Inc 228-6100
NW 26TH AV INTERSECTS
3630 Municipal Terminal No 2 pier 233-8331
U S Customs Bur(Ofc) 233-8331
3660 City Fire Bur Eng Co No 6
City Fire Bur-Fire Boat No 2 227-6175
3721 Liquid Air Medical Gas & Equipment Co 224-4321
Liquid Air Inc welding sup & equip 224-4321
3838 Waterway Terminals Co mdse whse 226-6901
4250 American Ship Dismantlers Inc 224-9900
4350 F M C Corp (Eng Dept) 228-9281
F M C (Purch Dept) 228-9281
4700 F M C Corp steel fabricators 228-9281
4701 F M C Credit Union 228-9281
4850 F M C Corp (Marine & Rail Div) 228-9281
4900 Kerry Log & Rafting Co 224-0261
Pacific Marine Communications Co mobile tel serv 224-0261
Shaver Transportation Co towing 224-0261
4927 Acme Trading & Supply Co scrap mtl 227-5501

928
NW KITTRIDGE AV INTERSECTS
4959 Airco Welding Products acetylene gas 228-0400
5005 Chemlime Corp chem mfrs 224-3290
5200 Oregon Steel Mills Inc 286-9651
5500 Douglas Oil Co Of California (Asphalt Terminal) 223-6537
5501 Chevron Asphalt Co mfrs 221-7811
5706 Flintkote Co (Pioneer Division) roofing matls 228-6411
5825 Standard Oil Co Of California (Stge)
5924 General Construction Co 248-0518
NW DOANE ST INTERSECTS
6345 Shell Oil Co (Asphalt Plant)
6350 Bird & Son Inc asphalt roofing products mfr 222-1307
6400 Washore Mechanical Inc mech eng 224-5247
Pennwalt Corp 228-7655
Rilcher J R Construction Inc 227-7256
ZIP CODE 97229
6529 Liquid Air Inc (Acetylene Plant) 224-4321
7000 City Ofcs-Guilds Lake Pumping Station

49
ZIP CODE 97231
NW 108TH AV INTERSECTS
10827★Burris Floy K Mrs 281-2673
10829 Peterson Dorene V Mrs 286-8573
Reuteler Walter E 286-8034
NW 109TH AV INTERSECTS
10921 Kristin Peter ◎
10937 Padden Steel Co steel fabrication 286-5851
NW 110TH AV INTERSECTS
11033 Kovach John G ◎ 286-0888
NW 111TH AV INTERSECTS
11104 West Coast Adhesives Co plywood adhesive mfgs 286-3515
11105 Vacant
11125 Vacant
NW 112TH AV INTERSECTS

901
FRONT AV SW —FROM BURNSIDE ST SOUTH 1 EAST OF SW 1ST AV

ZIP CODE 97204
SW ASH ST INTERSECTS
111 Edlefsen Tom Associates Inc int designers 222-1031
113 Office Building
201 Martino Ken Design Studio graphic designers 227-7247
202 Systems Improvement Associates consultants 227-6491
203 Reddick Brun Architects 222-5757
204 Landscape Planning Associates landscape archt 224-4024
Hickman David archt 223-3039
204 Whitmore Michl W archt 248-0320
1st Fl Oregon Audio Video Systems Co closed circuit tv sls & serv 224-4313
3d Fl Arkitektgruppe archts & planners 223-7018
SW PINE ST INTERSECTS
233 Two Thirty Three Sw Front Building
Rooms
101 Orth Advertising & Public Relations adv agcy 224-0576
101 Orth Clifford Properties Inc 227-2421
101 Orth Clifford Construction Co Inc 227-2421
102 Vacant
103 Newell Robt S appraiser 227-2772
105 Allyn Wm P real est appraiser-counselor 227-0553
105 Property Counselors Inc 227-0553
201 Barnes Hilgers Maslen & Associates archts 226-7628
STREET CONTINUED
235 International Org Masters Mates & Pilots (off shore div) 228-3521
237 Vacant
SW OAK ST INTERSECTS
SW STARK ST INTERSECTS
433 City Center Parking Inc 223-4266

733 East Street (98607) CAMUS-WASHOUGAL BRANCH Phone 835-2118
HOTEL

NW RALEIGH ST 1975

400

NW QUIMBY ST—Contd
2355 Independent Distributors whol farm equip 226-7966
2356 Karate Assn Inc Of Oregon Terrill Irvin H ◎ 223-9632
2360 Electrical Specialty Co mfrs agts 227-3601
2367 P & G Associates towing & repr 223-1631
2369 Portland National Film Service motion picture film distrs 224-6205
2384 Didak Helena Mrs ◎ 223-2884
2390 Didak's Cafe 222-1132
NW 24TH AV INTERSECTS
2420 Joyce Court Apartments 222-5059
1★Graves Lynn
2 Weaver Aldis M 222-2012
3 Greenwell Herb 227-4906
4 Mc Bride Ivan 222-5059
5 Cook Saml 228-2731
7 Smith C J 228-5311
8 Oliver Edw T
9 Locke Della R 227-6995
10★Razor D
11 Warner Lois M 227-1335
12 Litkin Nicholis V
13★Cook Patricia F 223-4796
14 Butler Mildred 228-1760
15★Nelson James S 228-4970
16 Herdt Emma Jean 223-7919
STREET CONTINUED
2433 Brande Lois M 227-0846
★Shore Cecille 222-3198
2434 Mc Namee La Verne L ◎ 227-0214
2445 Lyden Robt F 223-9637
★Grayston Suzie B 228-2511
★Martin Kath
2446 Reznik Chaim ◎ 223-2933
2455 Westview Apartments 228-7590
A Allen Doratha 228-7590
100 Smith Ruby J 223-2919
101★Martin Keith
102 Graham M L 227-0894
103 Thompson Willis M
104 Ribble Russell 223-0466
105★Lashbaugh L
106★Snodgrass Clarence R 248-9987
107★Mc Elligott John 228-2156
200 Huntamer C
201 Purcell Dennis A
202 Morris James R
203 Anderson Bertha
204★Jorgenson Johannes
205★Weed Leon O 223-4486
206 Sueper Alphonse F
207 Thompson Arnold J 223-0769
STREET CONTINUED
2456 Miller J ◎ 223-5963
2463 Peterson Ray W ◎ 223-7719
2473 Trull Kent
2475 Vacant
2479★Case Colett
★Parcher Steve R 227-4048
2480 June Court Apartments
1 Russell Mary H Mrs 227-7819
2★Henneman Betty Mrs 223-7878
3★Wright Karen
4★French James
5 Winters Gertrude M Mrs 223-1424
6 Griffith Mc Donald 222-5474
7 Eizema Johanna G Mrs 223-9174
8 Roberts Mabel E 228-3653
9★Schafer L
10★Dobrick Edw G 248-0797
11★Martin K
12 Elliott Velma M 227-5773
13★Rawlings B
14 Unden Herman 227-5344
15 Nichols Opal 227-1325
16 Williamson Robt J 222-4841
STREET CONTINUED
2487 No Return

29
N W 27TH AV INTERSECTS
2716 Long Jennie Mrs 223-1842
2718 Mc Cartney Walter H 222-5154
2721 Mc Murtrie Ray A 227-4675
2724 Tamiyasu Susie Mrs
2727 Wipf Evelyne M ◎ 227-1308
2728★Mc Han Charles 248-0562
2733★Trelstad Donald A 228-8700
2734 Rice Lewis D 227-1067
2735 Noce Gusta O 222-9063
2736 Mintz Howard H ◎
2741★Perry David L Jr 223-9847
2745 Vacant
2746 Ricks E R Del 228-1984
2748 No Return
2755 O'Mealy Todd C ◎ 223-2257
2757 Case Austin M ◎ 228-4695
2760★Eagon M J ◎ 223-9421
2761 Arnold Raymond C Jr 223-0316
2762 Tharp Mike J 223-4901
2763 Vacant
2765 Simon Emi S Mrs 223-8201
2771★Mc Kinley K B 227-2760
2773 Friedman Bertram P ◎ 228-3065
2775 Henderson Lawrence 228-1712
2785 Vacant

N W 28TH AV INTERSECTS

27
NW 29TH AV INTERSECTS
2901 Shlim Nathan ◎ 228-4404
2910 Lipman Miriam S Mrs ◎ 223-1074
2930 Nohlgren Joseph E ◎ 228-7889
2941 Bruckner Robt J ◎ 228-1484
2951 Berlin Quincy A ◎ 223-3056
2960 Mc Kibben Max W ◎ 248-9179
3004 Ogilvy Wm C ◎ 248-0982
3009 Le Febvre Patk W ◎
3022 Nelson John G ◎ 223-1312
3033 Sheldon Geo C Jr 223-7984

221
RADCLIFFE ST SW —FROM SW 61ST AV WEST 1 SOUTH OF SW HUBER ST

ZIP CODE 97219
SW 61ST AV INTERSECTS
6100 Tobin Clarence A ◎ 246-3097
6127 Johnson Henry B ◎ 244-2055
6130 Reuter Harold D ◎ 244-8264
6141 Luman Ira D ◎ 244-1843
6144 Woodman Don J ◎ 244-2212
SW 62D AV INTERSECTS
6221★Ramsthel Donald D
6234 Stevens Lenn J ◎
6237 Pulz John R ◎ 244-3513
6308 Jones Darwin E ◎ 246-4163
6315 Mang E G C 244-4061
6324★Van Buren Dennis ◎ 245-5336
6331★Bayley Bruce L ◎ 246-9514
6340 Brown Floyd R ◎ 246-4132
6405 Latham Geo O ◎ 245-2831
6410★Cote Steve 246-3897
6428 Began Arth F ◎ 244-7208
6444 Dorner Wm J ◎ 244-3250
6445 Berger John W ◎ 246-3983

51
RAILROAD ST N —FROM 2212 N ALBINA AV WEST

ZIP CODE 97227
N LEWIS AV INTERSECTS
N CLARK AV INTERSECTS
N HARDING AV INTERSECTS
N RANDOLPH AV INTERSECTS

23
RAINIER TER NW —FROM NW ARIEL TER SOUTH 1 WEST OF NW ROANOKE ST

ZIP CODE 97210
400 No Return
408 Drum M Josephine Mrs ◎ 223-0236
Frankel Nathan 223-1621

912
RALEIGH ST NW —FROM 1601 NW 12TH AV WEST

ZIP CODE 97209
NW 13TH AV INTERSECTS
1313 Burlington Northern Inc (Shops) 221-1300
1350 Benson Tom Industries Inc glass dlrs 226-7611
NW 14TH AV INTERSECTS
1400 Auto Wheel Service Inc mfrs 228-9346
NW 15TH AV INTERSECTS
NW 16TH AV INTERSECTS
NW 17TH AV INTERSECTS
NW 18TH AV INTERSECTS
1828 Vacant
NW 19TH AV INTERSECTS
1935 Apartments
1★Brown J
2★Bowers Campbell
3★Mc Millen B
4★Morrison H
1936 Apartments
1★Rodriquez Roxanne 227-7810
2★Hobbs R 227-1052
3★De Bow A
4★Stormn Richd D 227-5837
1945 Mc Callen Wm L ◎ 223-5065
1955 Apartments
1 Olson Iver 228-0893
2★Olson Larry K 248-0645
3★Pappas C
4 Wilson Orval E
1956 Raleigh Court Apartments 223-5045
1 Duerfeldt Gilbert E 222-4079
2 Hilt Wilma Mrs 223-9485
3 Thurman Loren E 223-5045
4 Pennington Paul E 227-2807
1965 Edna Apartments
1 Hewson Edna Mrs 223-6807
2 Kombeitz Mary E 227-0183
3★Thompson Stan 223-4941
4 Smith Edith L Mrs 223-5830
1966 Apartments
1★Sahw Robt L 223-8814
2 Gavin Nancy Mrs 228-9754
3★Cowan Don L 228-3651
4 Horn Carla 228-2566

31
ZIP CODE 97210
NW 21ST AV INTERSECTS
2170 Consolidated Warehouse (Div Consolidated Frtways) 226-6566
Oregon Glass Co Inc 226-3691
NW 22D AV INTERSECTS
2219 Vacant
2222 Pacific Northwest Bell (Constn Garage)
2258 General Rubber & Supply Co Inc 228-6565
2268★Reeves Martin 248-0922
2274★Porto Connie
NW 23D AV INTERSECTS
2309 Strafford Apartments 223-0779
Mc Intosh Malcolm 223-0779
2311 Maichant Sarah Mrs
2313 Bethel Kathie 222-1163
2315 Rall Wm 248-0574
2319 Apartments
1★Malin Eleanor M
2★Ortiz David N 223-4210
2330 Western Fluid Power hydraulic pneumatic equip sls 228-6666
2362 Vacant
NW 24TH AV INTERSECTS
2409 Kelly Cath Mrs ◎ 228-5367
2414 Vacant
2417 Munch Johnny A ◎
2424 Lambing Peter J ◎ 223-3271
2425 Saito Tom T ◎ 223-3851
2434 O'Donnell John L ◎ 221-0391
2437 Pucik Margt Mrs ◎ 223-4374
2440 Banzer Robt L ◎ 223-7487
2445 Fajer Eliz Mrs ◎ 223-8048
2450 Kaneshige Ichiji ◎ 228-2810
2455 Kelsey Wm Jr 227-4245
2456 Vacant
2462 Reynolds Martha ◎ 227-0780
2465 Raleigh Apartments
A★Burnett Marion
100★Seidel Robt S 243-2655
101 Vacant
102★Ritchey Al
103 Robbins Charles
104 Gray Jeff
105★Springstead K
106 Mc Robert Dee
107 Beckham Jack 223-1847
200★Bliss Candy 227-5103
201★Peterson E
202★Cline S
203★Ruiz M
204★Bearcus Al
205 Vacant
206★Mungovan John
207★Poulsen Diane 228-5619
STREET CONTINUED
2470 No Return
2475 Apartments
1★Ouellette Pierre 227-6032
2 Vacant
3★Carter Christi A 228-7751
4 No Return
5★Johns Howard L 227-7135
6★Coleman Louis A 227-6799
2480 Wilson Lois M Mrs ◎ 228-0434
2486 Brandtner Benj A ◎ 228-4461
2489 Adams Earl

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N W 25TH AV INTERSECTS
2503 Queen Anne Apartments
101★Hasing Saml T 222-7118
102 Lamm Sophi B Mrs 223-7844
103 Vacant
104★Stevens Helen
201★Scarl Aaron 228-1455
202 Holtz Lloyd 223-2541
203 Green Gail C
204 Cooper Richd M 248-9566
205★Winkler Dale
206★Cluver Milan D
301 Vacant
302★Reicheldfer Marybeth
303★Rice Jane
304 Ruff Charles A
305 Bander Siegmund E 223-0780
306★Pfalf Virginia
STREET CONTINUED
2525 Brownell La Velle Mrs 222-1538
2535 Skarin Verneda E Mrs 222-6191
2543 Erautt Wm ◎ 223-3422
2555 Bross James L ◎ 227-4279
2565 Willoughby Dorothy 223-8302
2567 Dorn Russell A 227-4379
2575 Franks Irene A Mrs 223-0020
2577 Fisher Leona M 228-1092
2585 Mc Grath Charline L Mrs 223-4390
2587★Welter James C 227-1374
N W 26TH AV INTERSECTS
2621 Jan-Mar Court Apartments 227-0713
10 Sowards J Kenneth 223-4291
12★Klaus Ethel G Mrs 228-1332
14 Stienmetz Brenda 223-1743
16 Fellows Ruby Mrs 228-0691
18 Kinney Elmer
20 Wann Ida A Mrs 227-0713
21 Elsner Ella 222-2780
22 Smith Allen E 227-5330
23★Atkinson Larry
24 Burgess Ella
25 Walter Valen
26 Christner Bonnie
27 Heil Jon L 227-2299
28★Canale Linda
29★Cleys Edw 227-5040
30 Brown Olive E 228-3660
31 Harris Cecil 223-5672
32 Gilpin Florence B Mrs 227-3326
33 Clifton J Erling 227-4117
34 Harris E Alma 227-5344
35 Charbonneau Ronald 223-8808
36 Miller Sandra 248-0255
37★Jenson Richd
38 Cooper Harry 222-2323
39★Mc Cabe Wm
STREET CONTINUED
2653 Sanchez Oscar 223-8200
2657 House Michl A 223-6999
2665 Lolich Steve A ◎ 223-6498
2667★Ritch Shirley V 228-7851
2673★Johannsen R G ◎ 228-0002
2675 Dettwyler Frances 223-4515
2683★Mills Christie Mrs
2687★Cooper Jane
N W 27TH AV INTERSECTS
2703 Masters Frieda E Mrs ◎ 227-2379
2712 Be Lusko Joseph V ◎ 223-2241
2715 Johnson Arth J ◎ 227-0728
2724 Yamada Tamaichi ◎ 222-5944
2725 Zingsheim Wm E ◎ 227-6820
2726 Warinner Richd ◎ 228-0634
2727 Marion John P 223-1743
2735 Mangeladorf Frank A 248-0360
2736 Osen Vivian E 222-5837
2737 Vacant
2738 Earl Helen Mrs ◎ 223-4513
2745 Mullen Donald 223-6556
2746 Groff Wm ◎ 227-6258
2747 Bennett Fred J ◎ 228-5826
2756 Pappas Gus A ◎ 227-2302
2757 Vacant
2764 Desinger Eliz Mrs ◎ 223-2289
2765★Martin Kenneth S 222-1482
2774 Thomas John E ◎ 222-9087
2775 Vlahos Marina Mrs ◎ 223-1473
2785 Mc Curdy John P 228-1892
2787★Usher John M
2788 Vacant
NW 28TH AV INTERSECTS
2805 Gilbert Kerry S 227-2399
2808 Etlinger Harry ◎ 228-3402
2815 Lolich John P ◎ 223-8903
2825 Wells Geo A ◎ 227-7046
2832 Barker Marin H 223-6089
2833 Mc Henry Mary Mrs ◎ 223-2872
2844 Burke Bernard V ◎ 228-9729
2845 Voltz Ralph S ◎ 223-7010
2854 Hohnstein Warren D 223-8054
2855 Whitelaw John M ◎ 227-7517
2864 Tavenner Lester J ◎ 228-0412
2865 Knutson Lulu M Mrs ◎ 223-0703
2873 Knutson Joanne C Mrs ◎ 223-3831
2874 Vacant
2884 Crawshaw Ralph S ◎ 223-6803
2885 Be Lusko Anthony A ◎ 223-1550
2895 O'Brien Clifford D ◎ 222-7307

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NW 29TH INTERSECTS
2911 Nagel Gordon V ◎ 223-7519
2925 Healey Alice M ◎ 227-2925
2926 Asmar Helen Mrs ◎ 223-0352
2939 Crawford John
2944★Hochstetler Robt 223-5510
2951 Carrell Kenneth R ◎ 223-1490
2954 Bailey Jeffrey W ◎ 228-3765
2967 Dyer Georgia Mrs ◎ 223-0204
2972 Brown Dennis A ◎ 227-0212
3024 Hillary Arth R ◎ 223-3931
3480 Waehrer Edgar ◎ 222-4855
3485 Hupp Dave 248-0846
3490 Kaye Geo R 222-7426
3494 Chavoe Nick ◎ 227-6800

183
RALSTON DR SW —BETWEEN SW TERWILLIGER BLVD AND SW BARBUR BLVD

ZIP CODE 97201
5858 Murray Thos J ◎ 244-8556
5900★Johnson Dennis A 244-3652
★Johnson Laura J 227-3981
5905 Sullivan Ann ◎ 244-6855
5920 Nelson Robt L ◎ 246-3778
5921 Troxell Clyde C ◎ 246-3712
5930 Kennedy Jerrold ◎
5933 Allan Robt E ◎ 244-6578

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RAMONA ST SE —FROM THE RIVER EAST INTERSECTING SE MILWAUKIE AV AT 5801

ZIP CODE 97202
1346 Ferris Claude C ◎ 232-7356
1414 Cumpston Jeannette Mrs ◎ 236-9740
1415 Goode Gordon W ◎ 232-4679
1425★Lerbakken Joel O ◎

NW 13TH AVE 1970

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13TH AV NE--CONTD
4927 FRASER GRETTA L MRS ●
282-1606
4928 KING CHARLES E ● 282-7686
4935 DIETRICH HENRY W ● 281-2533
4936 BECKER JOHN J ● 281-2397
4946 WINTER LELAH M MRS ● 287-4413
---NE ALBERTA ST INTERSECTS
5003 WATERS MATHEW
5011 STEVENSON WALLACE A ●
287-3186
5020 WILSON JAMES A
5021 MITCHELL EUG A
5028 GARNER ALEX ● 284-5633
5029 AVENT ELEANOR M MRS
5034 SCHLICK SIGNA L MRS ●
281-4075
5035 FINCK SOLOMON C ● 287-0351
5044 NO RETURN
5045 FOUGHTY ORTON P ● 284-7411
5050 BAILEY JAMES R ●
5051 BOSWELL MARION ● 281-9933
---NE WEBSTER ST INTERSECTS
5112 BRATBERG GINA M ●
5121 NESBIT HARRY L 282-7545
5122 VACANT
5126 WARNEKE IDA A E MRS ●
282-9483

150
---NE WEBSTER ST INTERSECTS
---NE SUMNER ST INTERSECTS
---NE ROSELAWN ST INTERSECTS
5210 PHIL'S TREE SERVICE SPRAYING
& TRIMMING 287-5480
DOBBS PHILLIP D ● 284-0759
5265 CLAY CHARLES
---NE EMERSON ST INTERSECTS
5310 VACANT
5321 LEAVELL ELVIN D REV 287-1845
5322 KENNEDY LLOYD E ● 287-7263
5406 ECKERLEIN FRANK L ● 282-0705
5420 DAVIS JEANNE MRS 284-3039
5430 HIGHLAND PARK CHURCH OF
NAZARENE (YOUTH CENTER)
---NE KILLINGSWORTH ST INTERSECTS
5524 BROWN ELLA W MRS 281-1050
5602 HANSET DONALD J ● 287-7378
5603 CRAWFORD MABEL J MRS ●
284-4379
5612 HARGROVE WILLIE E 287-5974
5615 SCHEID CANNA L MRS ● 282-8209
5622 BUTLER KENNETH R 282-6360
5625 ORR JOHN L
5633 PULLIAM HOWARD E 288-1573
5634 BAKER LLOYD E ● 282-6516
5635 KING DAMASCUS 284-4247
5702 NO RETURN
5706 CAWTHORNE HERB
5707 WALTON CHARLES V 282-0449
5712 COLE ERMA F ● 287-1068
5713 REYNOLDS ALVIN W ●
5723 WORRELL CARL T ● 284-7692
5733 PEARSON HILDA MRS 282-6695
---NE JARRETT ST INTERSECTS
5807 VACANT
5814 AMBROSE DELBERT A ● 284-8924
5815 BEBEE LEE ● 284-5156
5826 BRAZIL JOSEPH E REV ●
281-5217
5826 HILL ROBT C ● 287-5680.
5832 HEFCKE A LEO JR ● 284-0556
5835 HYNDMAN RUTH Q MRS ● 287-8654
5844 WHITTEBERRY RICHD R ●
284-4369
5845 RANDALL ERNEST ● 281-3800
5850 CARR MYRTLE R MRS ● 287-7976
5901 JOHNSON GEO H ● 287-6548
5904 JONES BRUCE B ● 282-2769
5911 COMFORT SCREEN & WINDOW CO
281-8967
HEINZ CARL J ● 281-8967
5912 NO RETURN
5915 MC MURRAY OSCAR 281-6423
5919 BOOM CHRISTINA MRS ● 281-0417
5930 BUTLER ROBT E ● 287-0846
5931 MC CALMONT JAMES ● 282-1153
5938 OVERTON SCOTT K MFRS AGT
5945 KLEUSCH LILLIAN E MRS ●
281-0990

168
---NE AINSWORTH ST INTERSECTS
6010 RUSH OTIS C ● 284-1634
6015 WILDE JACK E ● 281-2055
6024 MAC DONALD WM C ● 282-6616
6025 WESTPHALL GEO
6034 WASHINGTON EDW J ● 284-1743
6037 HOWARD FLORENCE H MRS ●
281-9555
6104 DAVIS CECLA MRS 282-2772
6105 GERDE EMOGENE D MRS ●
281-4087
6115 BUSCH RALPH R ● 287-7792
6116 STEWART ANNIE B MRS ●
6121 DANIELS PAULEATA W MRS MRS ●
284-6523
6126 SMITH CLEVELAND
6132 HAGUE ROBT
6133 WRIGHT MYRON ● 282-9482
6201 VACANT
6206 RICE L LA VONNE ● 281-5047
6210 NO RETURN
6215 LANDERS STANLEY A 287-5367
6224 HALL JACK W ● 282-6421
6229 NOEL LEON 288-2725
6232 PAUL'S JANITORIAL SERVICE
282-0468
PAUL ROYAL J ● 282-0468
---NE HOLMAN ST INTERSECTS
6305 EDWARDS GILBERT J ● 282-5302
---NE HIGHLAND ST INTERSECTS
---NE PORTLAND BLVD INTERSECTS
---NE BELLEVUE AV INTERSECTS
---NE MORTON ST INTERSECTS
6532 CITRON STEVE E
6536 VACANT
6547 VACANT
---NE LIBERTY ST INTERSECTS
---NE LENORE ST INTERSECTS
---NE JUNIOR ST INTERSECTS
6717 HOPPER HAZEL I MRS ● 284-1426
6720 PIERCE ALMA K MRS 285-4267
---NE DEKUM ST INTERSECTS
6816 ROBERTS BILL 289-4116

174
---NE SARATOGA ST INTERSECTS
6909 BOWMAN GLEN O ● 289-3102
6918 ULIBARRI MANUEL A ● 289-1463
6932 DURR JOHN L ● 285-4158
6941 ALLMAN SYLVANUS B ● 285-5113
---NE WINNONA ST INTERSECTS
---NE BRYANT ST INTERSECTS
7020 SALAGVARDA ALBINA MRS ●
289-2802
7038 BENNETT REUBEN M ● 289-4694
---NE WOODLAWN ST INTERSECTS
---NE MORGAN ST INTERSECTS
7132 WILLIAMS ROBT L ● 285-7017
---NE BUFFALO ST INTERSECTS
7207 VACANT
7224 WHITE PERRY V ● 285-2313
7225 JENSEN CLARENCE M ● 285-2676
---NE HOLLAND ST INTERSECTS
7243 WILLIAMS JAMES L ● 289-5893
---NE STAFFORD ST INTERSECTS
---UP TRACKS INTERSECTS
---NE LOMBARD ST INTERSECTS
---NE RUSSET ST INTERSECTS
7334 NOZAKI JOHN L ● 289-2926
---NE LOMBARD ST INTERSECTS
7515 NORTHWEST PROTECTIVE COATINGS
INC PAINT APPLICATORS
285-4631
7520 OVERHEAD DOOR CO OF PORTLAND
GARAGE DOORS 289-0211

932
13TH AV NW -FROM 1301 W BURNSIDE
ST NORTH

---ZIP CODE 97209
---NW COUCH ST INTERSECTS
102 BLITZ WEINHARD (STGE)
115 CRONIN CO THE (KENTILE WHSE)
---NW DAVIS ST INTERSECTS
221 PLATT ELECTRIC (WHSE)
225 OLSEN ROE TRANSFER CO (WHSE NO
2) 222-3000
---NW EVERETT ST INTERSECTS
300 PLANK OF FISH CO WHOL 227-6416
---NW FLANDERS ST INTERSECTS
401 VACANT
---NW GLISAN ST INTERSECTS

13
---NW HOYT ST INTERSECTS
---NW IRVING ST INTERSECTS
---NW JOHNSON ST INTERSECTS
---NW KEARNEY ST INTERSECTS

934
---NW LOVEJOY ST INTERSECTS
1039 WILBUR-ELLIS CO (WHSE)
---NW MARSHALL ST INTERSECTS
---NW NORTHRUP ST INTERSECTS
---NW OVERTON ST INTERSECTS
---NW PETTYGROVE ST INTERSECTS

912
1630 S P & S RY (BRIDGE & BLDG
SECTION)
S P & S RY (SECTION CREW)
S P & S RY (WATER SERV)
---NW SAVIER ST INTERSECTS
1705 BURLINGTON NORTHERN INC (YARD
OFC) 228-9111

180
13TH AV SE -FROM 1311 E BURNSIDE
ST SOUTH

---ZIP CODE 97214
---SE ANKENY ST INTERSECTS
121 THORSEN KEN 234-8003
SHANKY WM D
124 HOWARD APARTMENTS 236-6477
A WEBSTER STEVEN A 235-7891
B THORP FRANK
C VACANT
D VACANT
E WODDY J K
F DORMAN RUSSELL H
STREET CONTINUED
136 APARTMENTS
A WILDER JAMES M
B HANNULA SHERRYL
C KEMMER CLARENCE W
D STONE RUTH ANN
E HALL FLOYD
F GRAHAM JACK 236-6477
---SE ASH ST INTERSECTS
215 GIBSON LECLA MRS 234-3691
216 OE BUSK JOHN E 234-2597
218 LIEPELT DIRK 235-7183
225 SHEVCHENKO ALEX 232-7289
226 KINDBERG CARL
239 OWENS JAMES 235-7158
STREET CONTINUED
---SE PINE ST INTERSECTS
314 VACANT
315 HANKS HEBERT 234-0115
324 FINAN JAMES R 236-6437
325 MC GUIRE EDW
325½ JOHNSON MARVIN
---SE OAK ST INTERSECTS
419 NORTHWEST PAPER BOX MFRS INC
232-7124
423 BENT & GYNTHER PRINTING EQUIP
& REPPS 235-1237

232
---SE MORRISON ST INTERSECTS
812 SPECIALIZED QUILTING &
DRAPERIES 236-7035
822 BRINKMAN JAMES N 234-3433
---SE BELMONT ST INTERSECTS
900 HUNT N LEE MRS ●
904 HULBURT HARLOW R ● 235-7102
915 NO RETURN
916 LIDSTROM ED ●
923 APARTMENTS
1 FIELDS BETTE MRS
2 CADBURY CALVIN
3 VACANT
4 WARNER DONALD
5 JONES CLARA B
6 SADBERRY D M 234-1809
924 SCIBETTA SAML F 232-1782
---SE YAMHILL ST INTERSECTS
1013 KORN LEON E ● 236-3766
1016 PRICE JAMES F ● 235-4448
1030 TALBITZER HOWARD 232-5854
1032 GREER GORDON D
1034 MARVIN MAYBELLE V MRS
232-9275
1036 BRUNTON BETHEL B MRS 235-6510
---SE TAYLOR ST INTERSECTS
1106 CLAIRE APARTMENTS 236-6306
1 AITON BILL 234-1262
2 LAMPHERE F R 232-5612
10 DANNELLS GEO W 236-7418
11 VACANT
12 BARRETT LINDA
14 LONG JIM
15 MORRISON JOHN
16 VELLA CHARLES 236-6306
20 PENCHARD NORA
21 STEELE JAMES 232-8453
22 AVANDA JOHN
24 MERRILL FORREST
25 TAYLOR RICHD
26 MITCHELL DALE
30 PETERSON RONALD
31 CHRISTENSEN NELLIE 232-4421
32 TRACKWELL PHILLIP
34 MURPHY HOMER
35 MC CLUSKEY LESLIE
36 FONG LOUIS 232-9815
---SE SALMON ST INTERSECTS
1223 MAYFIELD EDNA M MRS ●
236-8458
---SE MAIN ST INTERSECTS
1303 IRINAGA TOKIYO MRS 236-1719
1315 APARTMENTS
A HATTON EARL T
B GERLACH ROBT H 232-7578
C BOUSHA MEARLE E 236-1056
D LERNER MOLLY MRS 232-9258
---SE MADISON ST INTERSECTS
1421 VACANT
--- SE HAWTHORNE BLVD
---INTERSECTS

244
---SE DIVISION ST INTERSECTS
2508 LINNEBUR JAMES E 232-1514
2513 PODLETO MARIE
2514 BROCKHAUS BERTHA A MRS
232-9631
2518 BOOTH SUZANNE MRS 234-3553
2519 CASTALLO THERESA M MRS
2524 PETERSON ANTON T ●
2525 MAGNUSON MELVIN D ● 236-3301
2534 WARSOP ROY H ● 232-9510
2537 DE FORD WILBERT E 234-2084
---SE IVON ST INTERSECTS
2605 BAILEY PATRICIA
2615 TERRELL GLEN L 235-6228
---SE CLINTON ST INTERSECTS

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---SE POWELL BLVD INTERSECTS
3111 WACO SCAFFOLD & EQUIPMENT CO
INC 234-9783
---SE KELLY ST INTERSECTS
3205 MULTNOMAH TILE CO CERAMIC
WALL TILE 234-7515
3215 WOOD MARION L ● 236-4269
3216 STREIMER JOSEPH F ● 232-0656
3223 LONG CHARLES R E ●
3226 NO RETURN
3234 SPRAGUE DOROTHY A MRS
232-9070
3237 FRANCESCHINI EMILIA MRS ●
---SE FRANKLIN ST INTERSECTS
3305 MC COMMON ROGER D 235-2268
3311 HOLM SOREN F ● 234-2524
3324 KRAUSE JUNE A MRS ● 236-6619
3325 CICCOZZI NAZARENO S ●
235-5812
3334 KILGORE MILTON F ●
---SE PERSHING ST INTERSECTS
3352 KASNER WM W ● 235-3757
3353 DISABLED AMERICAN VETERANS
DEPT OF OREGON 236-8409
LEONARD SPENCER ● 236-0523
3356 LINDENTHAL PAUL J ● 235-6156
3364 ROLLER HAROLD R 236-8895
3367 CHAN CHO PING ● 234-4029
3372 WICKS MILO L ● 236-6774
3373 SANCHEZ RUDY 234-8698
3387 JAMESON HOWARD L
---SE HAIG ST INTERSECTS
3405 REISZ MICHL P ● 236-3307
3411 SPLAWN GLENN W ● 236-7982
3414 BROWN THERESA G MRS ●
236-4021
3417 BOUCHARD EUG ● 235-7041
3423 KUBLI FRED R ● 234-2288
3424 HOAG JOHN B ● 236-6888
3434 LOUIE LINN 236-8436
---SE RHINE ST INTERSECTS
3502 JACKSON CHARLES A ● 235-1466
3505 WHITE ROBT S ● 235-5048
3518 PIERCE MASONIA C MRS ●
232-4284
3523 BORRI ANTONIO ● 232-0865
3524 SATO KAYO MRS ● 234-4913
---SE LAFAYETTE ST INTERSECTS
3601 SCHMELTZER M LEE ●
3604 WEISSENSUEHLER ALBERT F ●
235-0340
3611 RITCHIE REDUS ●
3614 DAHLGREN TED P 235-4244
3622 ROBERTS ANTHONY
3624 KAPLAN JAY
3625 BUSON ELIZ P MRS ● 236-3374
3628 WOOLSEY LONZO ● 232-6252
3640 GARDNER GEO L ● 236-7746
---SE RHONE ST INTERSECTS
3704 VACANT
3705 ELIX DONALD R 236-6556
3706 COFFEY KATHLEEN MRS
3716 DONKERS MARY E MRS ● 236-3452
3723 MILLER DANL V 232-5235
3726 DURBIN MICHL 232-7789
3734 BAIRD ORA J BLDG CONTR ●
236-6916
---SE BUSH ST INTERSECTS
3803 BICKFORD CHARLES U 236-7735
3804 PHILLIPS VERA MRS
3818 AMERMAN LAWRENCE ● 235-8282
3828 MC CONKEY ALICE K MRS ●
3838 SHASKELFORD CLARENCE T ●
235-6815
3848 ROSSI J J 236-5223
3904 MC LAUGHLIN WARREN M ●
236-6768
3914 SHEFKO THOS ● 233-7818
3924 PERAGINE TONY J ● 234-2338
3932 PURCER WM W ● 235-4447
---SE CENTER ST INTERSECTS

278
---ZIP CODE 97201
---SE MARTINS INTERSECTS
6106 YOUNGER KENNETH L ● 236-5133
6111 MAYER BRUNSWICK R ● 232-3539
6115 HARDY RONALD D ● 232-7363
6120 SINGER JACK I ● 235-5526
6129 STAINBROOK WESLEY L ●
235-5632
6138 BRAUTLACHT WM J ● 234-6758
6139 LANG LOYAL C ● 235-6134
---SE CARLTON ST INTERSECTS
6209 STAATS HAROLD E ● 235-4663
6225 DOUGLASS HERBERT M ● 236-8221

328
---SE HENRY ST INTERSECTS
6309 STEDMAN GEO A 236-9047
---SE BYBEE BLVD INTERSECTS
7018 GRAHAM CLYDE S ● 232-4879
7030 BLANTZ CLEMENT H ●
7060 SMITH CURTIS C ● 236-9179
---SE RURAL ST INTERSECTS
7104 MOE CONRAD R ● 236-8915
7114 VACANT
7126 SIGRIST OSCAR ● 235-2337
7138 BLACK DONALD H ● 232-1358
7152 ECKLEY MATHILOE MRS ●
232-3604
7214 BLACK MARY M MRS ● 236-4233
7215 WILLAMETTE VIEW CHIROPRACTIC
CENTER 234-5211
OWEN JAMES A ● 234-5212
7230 JANSEN RICHD E ● 236-5507
---SE SELLWOOD BLVD INTERSECTS
---SE KNAPP ST INTERSECTS
7306 SCONCE RALPH W ● 236-6703
7315 WILLIAMS ROBT A 232-1068
7316 QUICK LYLE D ● 236-1802
7406 VAN SINGLE MENZO ● 236-4322
7409 SCOTT STELLA MRS NURSE
234-1811
7414 MC QUILLIAM WM J ● 232-0409
7419 SHRINER RALPH ● 236-0592
---SE FLAVEL ST INTERSECTS
7504 WELLS HOWARD B ● 236-1436
7509 STEWART WALTER F ● 235-0252
7514 CRIST NAILAN ● 234-8312
7519 FITCH WAYNE D ● 236-8170
7524 MARTIN FLORENCE M MRS ●
236-3995
7536 ELWOOD JACK C ● 236-3470
7539 BURGETT VICTOR N ● 235-1826
---SE REX ST INTERSECTS
7604 PURCELL DELMOS O 236-6988
7614 BOUSHA BYRON O ● 236-6720
7615 BRADY MYRTLE E MRS 232-9027
7617 STOLDT VINA F
7624 THORNWALL MARY E MRS ●
236-1625
7629 HAYS EDW F ● 232-0958
7634 MYERS WALTER A ● 232-3519
7637 KEMP JOSEPH V ● 236-3462
---SE MALDEN ST INTERSECTS
7704 PINEHURST PRE-SCHOOL DAY
NURSERY 232-9743
7730 PECCIA & CARNESE UPHOLSTERING
235-2348
7733 INTERNATIONAL REALTY (WHSE)
---SE LAMBERT ST INTERSECTS
7805 PATTERSON HAROLD N 234-8121
7814 WHEELER HAZEL V MRS ●
235-5568
7824 WOLF IRENE MRS ● 236-4631
7828 MUCKEN GARY L 233-3860
7834 BARBARA'S BEAUTY SALON
235-9753
7835 KEITH'S MARKET NO 13 234-7922
7836 DAHL WM 234-8033
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---NE 50TH AV INTERSECTS
5003 KIRCHNER'S AUTO SERVICE REPRS 288-3000
5015 FREMONT VETERINARY HOSPITAL 282-0991
5024 GARDERNER RAY 287-5723
5034 MALPASS JOHN W ● 282-7603
5039 NO RETURN
---NE 51ST AV INTERSECTS
5103 MIRROR TAVERN THE 284-9027
5111 JONES HAL AUTOMOTIVE 288-1130
---NE 52D AV INTERSECTS
5230 CLARK ORA J
5232 ELLIS DELPHINE
5320 COP GENEVIEVE C ● 281-6095
---NE 53D AV INTERSECTS
---NE 54TH AV INTERSECTS
---NE 55TH AV INTERSECTS
5506 AKERS ROY O ● 281-4183
5518 STRANDBERG GEO J ● 281-8666
5539 SIMMONS DONALD W ● 281-3268
---NE 56TH AV INTERSECTS
5624 R & R SUPER MARKET 284-1433
5625 ROSE CITY CEMETERY ASSN 281-3821
5645 LAURIE'S UNION SERVICE 281-8076

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---NE 57TH AV INTERSECTS
5701 JUNKETTE THE ANTIQUES 281-4167
5707 WILSON STUDIO INC 287-7800
5710 ROSE CITY RICHFIELD 284-9819
5711 APARTMENTS
1 AVERILL HAR A
2 VACANT
3 VACANT
4 PORTER LINDA M MRS 281-6965
5713 GLADY'S BEAUTY SALON 282-9977
5715 ED'S BARBER SHOP
5717 WENDT ELMER L
5721 BARNUM DOLLE S MRS ● 281-0265
5725 ROBBINS E K ● 284-7586
---NE 58TH AV INTERSECTS
5804 ALLEN JOHN C 281-4254
5805 AMELL MARY V MRS ● 284-5977
5815 BRIGHTBILL JOHN T ● 284-6218
5816 KNAPP SHOE CO 284-7586
5823 WILCOX BEN 287-6925
---NE 59TH AV INTERSECTS
5905 WHEELER GAY S ●
5911 DUPAQUIER JOHN A ● 281-1309
5914 JOHNSON E CLEVELAND ● 281-6767
5917 MORRIS CLAUDE A ● 281-3462
5924 WHEELER TERRY R 282-0112
5925 CARL ROSE MRS ● 284-4479
5932 MILNER SKIP 284-5795
5935 LEVESQUE WM H ●
---NE 60TH AV INTERSECTS
6021 KNAAK F JOHN ● 282-9891
6023 PEARSON VERNON N ● 281-9376
6024 DU BRAVAC NICHOLAS E ● 282-8188
6025 BURFITT FRANK F ● 282-5059
6029 GODFREY LE ROY A
---NE 61ST AV INTERSECTS
6101 LIVELY RUTH E MRS 281-1511
6115 BROOKENS LAMPS INC LAMP MFR 281-8058
6116 KELLER GEO ● 287-1935
6125 VACANT
6126 MIGNEREY DUVAL J 287-9547
6127 GEORGE'S FOOD MARKET 284-9409
6129 ROVON INN THE TAVERN 284-9946
6133 HYDE PARK BEAUTY SHOP 287-1020
6135 COME & GET IT SHOP GIFTS
6137 VACANT
6139 BRISWICK MABLE MRS
---NE 62D AV INTERSECTS
6203 PARKER MILTON W ● 284-7185
6221 HARBERT MELVIN E ● 284-5714
6235 BOOTH GENELLE B MRS 281-4710
---NE 63D AV INTERSECTS
6307 KEARNS DWAIN E ● 288-4617
6315 KNAPP GLENN G ● 281-4994

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---NE 64TH AV INTERSECTS
6411 BOKEMEIER CHARLES S 282-0437
6504 BRAMEL JOHN L 281-3874
6511 BENZ ALBERT W ●
6537 WESTEEN ELIZ J MRS ● 284-5374
---NE 66TH AV INTERSECTS
6608 BLACK GAIL M ● 287-0938
6629 COLGROVE SHELDON L ● 284-4697
---NE 67TH AV INTERSECTS
6705 FRASER CHARLES E ● 284-0325
6715 HILMER MILTON A ● 282-6326
---NE 68TH AV INTERSECTS
6825 KUNZ BETTY T MRS ● 288-4425
6835 ANDREW FRANK P ● 282-0467
---NE 69TH AV INTERSECTS
---NE 70TH AV INTERSECTS
---NE 71ST AV INTERSECTS
---NE SANDY BLVD INTERSECTS

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---NE 72D AV INTERSECTS
---NE 73D AV INTERSECTS
7305 EVERIST BROS AUTO SPECIALISTS REPRS 282-3241
7306 KULASAVAGE ALICE R MRS PHYS 287-1147
7314 SPRECHER PAUL INSURANCE AGENCY 282-0989
7316 BURGER THOS W DENTIST 282-2020
7320 COIN-OP DRY CLEANERS 284-9910
7330 MOTOR EXCHANGE REPR 288-6038
7333 STATE LIQUOR CONTROL COMN STORE NO 33 284-7591
7337 STATE COMPENSATION DEPT NORTHEAST DIST OFC 288-6371
---NE 74TH AV INTERSECTS
7405 DRAPER NEO 284-8435
7415 GAMBETTY FRANK 281-6624
7429 HATHAWAY RALPH V 287-3702
7430 CEC'S BARBER SHOP 281-7126
7432 VACANT
7434 PECHEOS ELSIE H MRS ● 282-1406
---NE 75TH AV INTERSECTS
7510 WEBSTER EARL A ● 281-7142
7521 ROSS EMMA MRS ● 284-5349
7524 BATES CHRISTINE B MRS 254-9589
7534 WOOD CHRISTINE H MRS ● 254-4714
---NE 76TH AV INTERSECTS
7610 GRACE LUTHERAN CHURCH 253-7338
7611 DIKEMAN ETHEL L MRS ● 282-0475
7630 CHRISTIAN CHARLIE T ● 253-8319
---NE 77TH AV INTERSECTS
7717 ROGERS STANLEY ● 281-6033
7722 LARSON VERNON W 253-5092
7732 MC KEE VERA A MRS ● 253-5709
---NE 78TH AV INTERSECTS
7837 CORFE ELSIE D MRS ● 284-7515
---NE 79TH AV INTERSECTS
7911 GODDWIN SAML M ● 281-0348
7931 WILLIAMS LARRY G ●
7934 VACANT
---NE 80TH AV INTERSECTS
8008 BAUM WM H ● 252-9327
8016 BUZARD ROBT A 253-3530
8024 HENWOOD LAWRENCE W 255-8236
8029 KELLUM GLEN A 288-3793
8035 VALDER OLIVER S ● 282-8835
---NE 81ST AV INTERSECTS
8110 PLAID PANTRY 254-9004
8120 JONES DEAN SALON OF BEAUTY 252-2479

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---NE 82D AV ITERSECTS
8245 FIRST ORTHODOX PRESBYTERIAN CHURCH 253-0695
---83D AV NE INTERSECTS
8315 DAVIS GENEVA C MRS ● 254-2298
8335 BODENHAGEN THEO A ● 253-9006
8345 HOPKINS MARTY
8403 ROSE VILLA BARBER SHOP 252-5804
8405 LEE'S FRIEDA BEAUTY SALON 253-5169
8407 EVANS' CARPET SERVICE 255-1532
---84TH AV NE INTERSECTS
8436 AKERILL DAVID L ● 254-1267
8454 NO RETURN
8464 TUCK SAM ● 252-0679
8504 FUHRER JOHN H JR ● 254-1875
8505 HOME MART CONSTRUCTION INC BLDG CONTRS 255-6350
REALTY MART 255-6350
8512 REDFIELD HELEN E MRS ● 253-2047
8515 ROSE VILLA VARIETY
8523 RANDO F P 255-6842
8524 DAUGHERTY JANET L MRS ●
8525 CASH'S ROSE VILLA CLEANERS 253-5262
8534 NO RETURN
8535 HAROLD'S SHOPETERIA GRD 253-1353
8543 VACANT
8546 HICKS AL ●
8556 SCHILLING MICHL H ● 252-6524
8557 FETTERS HELEN C 253-4848
8603 HALL JAMES E 255-6092
8604 ANSNES WM B ●
8605 GRIFFIN RENA E MRS ●
8607 PIZZO JOSEPH A ● 253-0522
8614 BARNARD KATHLEEN J ● 254-2787
8624 DONALDSON DONALD V 254-4415
8625 STRIBLEY CHARLES C ● 254-1148
8634 KASAVAGE DELORA W MRS ● 254-0020
8644 BUSKUHL PAUL E ● 254-2224
8646 LITCHFIELD GEO A ● 254-1621
8702 TROXEL ELMER P ● 254-2843
8707 PROTHE EMIL G ● 254-1262
8714 KIRBY DOLORES C ● 252-5798
8723 ANDERSON JERRY S ● 253-7715
8737 LOTH THEO J ● 253-9324
8744 CAMPBELL CHARLIE G ● 254-4397
8745 SILVERS THOS W ● 255-5005
8757 SOUDERS DOYLE E ● 254-4457
---88TH AV NE INTERSECTS
8614 NO RETURN
8853 FINCHER CARL L ● 253-6132
8867 SPANO LEO ● 254-1344
---89TH AV NE INTERSECTS
8907 OCHS DAN K
8915 BRIDWELL LUTHER W 254-9795
8925 NO RETURN
---90TH AV NE INTERSECTS
9011 LINDON GERTRUDE MRS ● 254-4727
9025 KEEN WM J ● 253-0106
9030 PRATT FEVREL W ● 252-2536
9038 VACANT
9041 LIDSTROM ROBT W ● 254-0815
9201 JUDSON BAPTIST COLLEGE 253-5563
BUSSEY WM T
EVERETT WAYNE 255-4339
LEWIS ROBT F 254-9988
PRICE ARTH 254-1758
WILBUR GENEVIEVE H MRS 255-6379
9210 MAUCHLEY DEAN E 253-9854

921

FRONT AV NW -FROM 1 W BURNSIDE ST NORTH

---ZIP CODE 97209
7 VACANT
15 VACANT
25 WEXLER BROS 222-4265
FRANKLIN WM
---NW COUCH ST INTERSECTS
---NW DAVIS ST INTERSECTS
---NW EVERETT ST INTERSECTS
---NW FLANDERS ST INTERSECTS
---NW GLISAN ST INTERSECTS
550 WESTERN TRANSPORTATION CO TOW BOATS 226-1301
614 VACANT
---NW IRVING ST INTERSECTS
632 MC MILLAN A & CO BLDG SUPS 226-6316

922

---NW BROADWAY INTERSECTS
1118 ALBERS MILLING CO FEED MILL 226-6721
1300 RIVER QUEEN RESTR 228-8633
1362 CROWN MILLS (FLOUR MILL) 228-9441
---NW 9TH AV INTERSECTS
1464 CENTENNIAL MILLS INC FLOUR 228-9441
CROWN MILLS INC 228-9441

912

---ZIP CODE 97210
2047 DOT'S STERN WHEEL RESTR 227-7842
2100 MUNICIPAL TERMINAL NO 1 228-8231
U S CUSTOMS-DOCK INSP OFC 228-8231
2211 BESSCO MARINE SERVICE SUPPLIES 228-6409
SLATER JAMES G & ASSOCIATES MARINE SURVEYORS 228-6409
STANDARD STEEL & TUBE SUPPLY 224-9464
STANDARD STEEL WAREHOUSE CO OLRS 224-8770
2246 AMERICAN MAIL LINE LTD (GEAR LOCKERS) 226-2771
2279 EMERSON HARDWOOD CO WHOL LBR 227-6414
---NW 20TH AV INTERSECTS
2303 N & B TRANSFER (WHSE) 228-4371
2500 AMERICAN MAIL LINE LTD TERMINAL 223-9776
US CUSTOMS-DOCK INSP OFC
2530 PORTLAND PUBLIC DOCKS (WHSE NO 3)
2545 PORTLAND GENERAL ELECTRIC CO (TRANSFORMER)

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---NW NICOLAI ST INTERSECTS
2800 BINGHAM WILLAMETTE CO CUSTOM PUMP MFRS 224-9720
WILLAMETTE IRON & STEEL CO FABRICATORS 224-9740
2831 FRONT AVENUE CHEVRON 227-4009
ISKRA MICHL T AUTO REPR 227-4009
2855 INTERSTATE TRACTOR & EQUIPMENT CO 228-2333
3040 UNDER CONSTN
3045 WALKER MFG CO WHOL AUTO PARTS 226-3636
3065 PACIFIC WESTERN AGENCIES 228-7261
SOUND FLOOR COVERINGS INC WHOL 228-7261
3070 CITY PUB DOCK (ENGINEERING DEPT)
CITY PUB DOCKS COMN (ADMN OFC) 228-8231
COLUMBIA RIVER PILOTS ORG BUSINESS CIVIC & PROF 228-9325
3075 GALLEY THE RESTR 228-2991
3079 UNION OIL (ACCESSORY WAREHOUSE) 228-4191
3085 CAMPBELL CHAIN CO MFRS 223-4187
RUSSELL BURDSALL & WARD BOLT & NUT CO MFRS 228-7265
3100 DOCK INSPECTORS (OFC)
3125 BEAVER STATE DISTRIBUTING CO BEER DISTRS 224-4299
3147 MC CRACKEN BROS MOTOR FREIGHT INC 222-4291
3160 RIVERIERA MOTORS INC (CAMPER & PARTS DIV) 226-3831
RIVERA MOTORS INC (PORT INSTALLATION DIV) AUTO DLRS 226-3831
3245 VIKING AUTOMATIC SPRINKLER CO 227-1171
3333 UNITED STATES PLYWOOD CORP 227-3725
3345 GADO EQUIPMENT CARGO SERV 222-1222
3445 MANITOU EQUIPMENT CO LOGGING EQUIP 227-3418
---NW 26TH AV INTERSECTS
3630 MUNICIPAL TERMINAL NO 2 PIER 228-8231
OREGON STEVEDORING CO INC 223-6186
U S CUSTOMS BUR(OFC) 226-3361
3645 SCHNITZER STEEL PRODUCTS CO (SHOP)
3660 CITY FIRE BUR-ENG CO NO 6 227-6175
CITY FIRE BUR-FIRE BOAT NO 2 227-6175
3838 WATERWAY TERMINALS CO MDSE WHSE 226-6901
4012 AMERICAN SHIP DISMANTLERS INC 224-4321
4350 GUNDERSON BROS (CONTROLLERS DEPT)
4700 GUNDERSON BROS ENGINEERING CORP STEEL FABRICATORS 228-9281
GUNDERSON BROS INVESTMENT INC REAL ESTATE OWNERS 228-9281
4701 SOUTHERN PACIFIC CO INSP'S OFC
4850 GENERAL CONSTRUCTION CO 224-9512
4900 KERRY LOG & RAFTING CO 224-0261
PACIFIC MARINE COMMUNICATIONS CO MOBILE TEL SERV 224-0261
SHAVER TRANSPORTATION CO TOWING 224-0261
4927 ACME TRADING & SUPPLY CO SCRAP METAL 227-5501

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---NW KITTRIDGE AV INTERSECTS
4959 AIRCO INDUSTRIAL GASES ACETYLENE GAS 228-0400
5005 NORTHERN STATES MFG & MATERIALS WALL BOARD MFRS 227-4952
5200 OREGON STEEL MILLS INC ROLLING MILLS 228-7641
5500 DOUGLAS OIL CO OF CALIFORNIA (ASPHALT TERMINAL) 223-6537
5501 CHEVRON ASPHALT CO MFRS 222-4256
5700 FLINTKOTE CO (PIONEER DIVISION) ROOFING MATLS 228-6411
5825 STANDARD OIL CO OF CALIFORNIA (DIST OFC) 223-4161
---NW DOANE ST INTERSECTS
6345 SHELL OIL CO (ASPHALT PLANT)
6350 BIRD & SON INC ASPHALT ROOFING PRODUCTS MFR 222-1307
6400 WASHORE MECHANICAL INC MECH ENG 224-5247
PENNWALT CORP 228-7655
---ZIP CODE 97229
6529 INDUSTRIAL AIR PRODUCTS CO (ACETYLENE PLANT) 224-4321

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---NW 108TH AV INTERSECTS
10827 BURRIS CHESTER W 286-1513
10829 PETERSON DORENE
10835 NO RETURN
10837 VAN DER HEY ROLAND SPELLMAN CLARK J
---NW 109TH AV INTERSECTS
10906 VACANT
10921 KRISTIN PETER ●
10939 BROWN ROSE M MRS 286-3513
---NW 110TH AV INTERSECTS
11033 KOVACH JOHN G ● 286-0888
---NW 111TH AV INTERSECTS
11104 WEST COAST ADHESIVES CO PLYWOOD ADHESIVE MFGS 286-3515
11105 VIVARO ANDREW B ●
11125 VACANT
---NW 112TH AV INTERSECTS

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FRONT AV SW -FROM 1 W BURNSIDE ST SOUTH

---ZIP CODE 97204
---SW ANKENY ST INTERSECTS
---SW ASH ST INTERSECTS
111 COLUMBIA ASBESTOS INC 227-6493
117 COGGINS GEORGE F CO CAPACITOR MFRS 227-2921
OREGON AUDIO VIDEO SYSTEMS CO CLOSED CIRCUIT TV SLS & SERV 224-4313
VIDEO PRODUCTS INC SLS 224-4313
---SW PINE ST INTERSECTS
215 PORTLAND AUTO PARKING 224-6962
233 TWO THIRTY THREE SW FRONT BUILDING ROOMS
101 DRTH ADVERTISING & PUBLIC RELATIONS ADV AGCY 227-2421
101 DRTH CLIFFORD PROPERTIES 227-2421
101 DRTH CLIFFORD CONSTRUCTION CO INC 227-2421
102 VACANT
103 LEINEWEBER-RASCH INSURANCE AGENCY 222-2226
104 NEWELL ROBT S APPRAISER 227-2772
105 ALLYN WM P REAL EST APPRAISER-COUNSELOR 227-0553
105 PROPERTY COUNSELORS INC 227-0553
201 BARNES HILGERS AND MASLEN ARCHTS 226-7628
STREET CONTINUED
235 INTERNATIONAL ORG MASTERS MATES & PILOTS LOCAL 90 228-3521
237 VACANT
---SW OAK ST INTERSECTS
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PENINSULAR AV N -FROM 2925 N LOMBARD ST NORTH

---ZIP CODE 97217
---N RUSSETT ST INTERSECTS
7605 SIEBENS GEO F 289-4994
7607 HANDSAKER EARL 285-8795
7609 PYLE OLIVE M MRS 285-0827
7611 KELLER FRANK 289-5753
7628 GARRETT RANDOLPH A ● 289-9595
7634 LARSON DAVID R JR 285-7280
7635 BLAKELY IRWIN T ● 285-2047
---N BALDWIN ST INTERSECTS
7655 MC ELVAIN ROY 289-9907
STARK PATK J 285-9079
7656 PETERSON JACOB ● 289-6204
7666 MALAN CLAUDE A 283-2612
7669 SEIFERT WM J ● 289-6003
7678 PULLIAM NONA M MRS ● 289-7616
7683 GLENWOOD APARTMENTS 289-1763
1 MC LAIN CLAUDIA O MRS ● 289-1763
2 CLARK ANITA MRS
3 PINEGAR MABEL D MRS 289-7196
4 HOLT MARLEENA M 285-3328
5 SCHATZ KATHERINE MRS 289-8729
6 VACANT
7684 THOMPSON ERMA W MRS ● 289-3962
---N FARRAGUT ST INTERSECTS
7700 VACANT
7702 VACANT
7705 YOUNG GILBERT ● 289-2589
7714 MC KAY JAMES C ● 285-4208
7715 JACOBSON BERNICE H MRS ● 289-5969
7725 VACANT
7726 HONL MARVIN I ● 289-7257
---N TERRY ST INTERSECTS
7806 VACANT
7814 FABER IVAN E ● 289-7847
7815 RAMEY CHARLES A ● 289-3672
7824 FORD JAMES J ● 285-2180
7825 PFANNES D E
7832 KRUGER JOHN R ● 285-7859
7833 NO RETURN
---N WINCHELL ST INTERSECTS
7903 RAY BONNIE M MRS ●
7904 FROLOF ALEX W ● 289-2096
7914 KAYSER MARIE E MRS ● 289-5775
7915 HILTON ANNA MRS ● 289-5964
7922 RUSCIGNO JOE F ● 289-6979
7925 DAWSON COLIN T ● 289-6906
7936 OLDEN JOSEPH H
7937 WISDOM ELAINE J MRS ●

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---N WATTS ST INTERSECTS
8004 VAN DYKE JOHN E ● 285-4180
8005 SKINNER FLAVIA A MRS ● 289-6058
8015 LINTON JOHN A ● 285-8084
8016 HUNT ARTH W ● 289-8245
8105 JAMES FORREST C ● 285-3005
8114 OPP KATH E 285-1257
8115 BEAN ARTH H ● 289-5310
---N KILPATRICK ST INTERSECTS
8204 CREST APARTMENTS
1 JACKSON GERTRUDE
2 CHAMLEY MELVIN D 289-6547
3 FRASER KIMBALL P 285-2286
4 MARSHALL VELMA L MRS 289-5649
5 VACANT
6 QUIST JOHN
7 BEAN O L 285-3052
8 HALL M
9 MARCELLUS MAUDE 289-4221
10 STAI ANN MRS 285-6844
STREET CONTINUED
8205 CLANCY CHARLES M ● 289-1388
8214 AGUDELO JAIRO
8221 SHORT P O REV 289-2801
8225 PENINSULA OPEN BIBLE CHURCH 289-3343
8234 PALLERA ANTONIO 289-4956
---N HALLECK ST INTERSECTS
8255 OLSEN CARL I 289-4579
8265 PELLMAN NEAL 285-6840
8275 HAYES ARTH B ● 289-3825
---N ARLINGTON PL INTERSECTS
8306 JONES LU RAY C ● 289-1615
8318 KORELL LE ROY ● 285-3890
8330 HORN JACK H ● 289-4062
---N WILLIS BLVD INTERSECTS
8333 KEITH'S MARKET 289-7177
8414 DAVIS HAYNES JR
8423 WIDNER STEPH J ● 285-3566
8424 NO RETURN
8434 DUGWYLER LEWIS A ● 289-4915
---N ARGYLE ST INTERSECTS
8501 BURNS CHARLES B ●
8510 MABEE MABEL MRS ● 289-1396
8511 HILLESLAND STEVE 289-8016
8524 WILLIAMS DAN E 289-8680
8525 EVERS LOUIE B ● 289-5889
8537 BAKER EZRA B ● 289-9707
8538 VACANT
8617 BROWN ALFREIDA MRS ● 285-3828
---N HUNT INTERSECTS
8716 WINEGAR DARRELL J ●
8722 MURRY RAYMOND E ●
8734 CODY VIRGINIA ● 285-4241
8738 HAWKINS RUSSELL
8744 ANDERSON WALTER M ● 285-7615
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8750 PETERSON NILS A ●
8756 RYAN FRED 285-5320
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8768 LENABURG FRED R ●
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8822 HENSON JULIAN W ● 285-1367
8833 SLABY PETER V ● 285-9416
8834 ANDERSON VERSA ● 285-3223
8844 MULKEY GLEN ●
8908 ETHRIDGE CLARENCE E ● 289-3157
8909 JOHNSTON DALE L ● 289-9833
8916 ONEROAD CORNELIUS W ● 289-9537
8928 DAVIS HAYNES 289-4859
8937 CANALE ANDREW E 285-6343
8938 CURRY RICHD E ● 285-1071
8945 SMART SHIRLEY MRS 283-2997
9000 PANELL BOOKER
9005 ROBEN EDW
9006 GIBSON WM ● 285-7308
9015 NO RETURN
9018 GILL FRANK C ● 285-9494
9025 SUOR DAVE 289-6746
9028 WHILLOCK RONALD L 285-1661
9039 COLE RUBY D MRS ● 289-1377
---N TRENTON ST INTERSECTS
---N COLUMBIA BLVD INTERSECTS

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PENNOYER ST SW -FROM 3601 SW MOODY AV WEST

---ZIP CODE 97201

175

---SW CORBETT AV INTERSECTS
0130 NATIONAL ASSN OF MANUFACTURERS 227-2637
0112 NORTHWESTERN AGENCIES INC INS AGCY 227-0434
WATTS ROSCOE E LWYR 228-3387
---SW FRONT AV INTERSECTS
---SW HARBOR DR INTERSECTS
11 SURINO TONY ● 228-3297
19 VACANT
23 MADDEN ANGELINE E MRS ● 226-8704
---SW 1ST AV INTERSECTS

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PERIANDER ST SW -FROM HOMER AV WEST NORTH OF PORTLAND HEIGHTS PARK

---ZIP CODE 97201
---SW HOMAR AV INTERSECTS
2814 GANN STEVE D ● 222-5807
2829 BUFFUM WM H ● 222-4134
2833 WHITLOCK HELEN H MRS ● 223-1705
2844 LACEY HUGH V JR ● 223-1976
2845 MANSFIELD TIMOTHY ●
2906 VACANT
2922 TURNBULL CLARENCE
2926 EMERY LEE E ● 223-3775
2930 WRIGHT HARRIETT E MRS ● 223-5737
2933 LITTLEFIELD ALLAN E ● 223-2502
3022 BUCK WM P 228-4693
3025 ENGER GALE ● 223-0470
3033 DICKINSON GLYDE MRS ● 223-0226
3040 POLLARD FLORENCE S MRS ● 223-1876

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PERSHING ST SE -FROM 3301 SE MILWAUKIE AV EAST

---ZIP CODE 97202
1135 FLATT EARL R ● 232-0340
1137 BROWN EUG W
1139 WARREN LA VON MRS 234-1493
1158 DANFORTH THOS ● 232-5051
1170 CLEMO JOSEPH P 232-9358
1176 NIRANEN EINO
---SE 12TH AV INTERSECTS
1204 CARDELLI ROSCA MRS ● 234-8757
1216 WRIGHT GERALD K
1225 SANDSTROM GLORIA MRS ● 234-3522
1235 BURCH RALEIGH M ● 232-1775
---SE 13TH AV INTERSECTS
---SE 14TH AV INTERSECTS
1431 MILES LEE 235-2611
1437 THOMAS THOS A ● 236-6053
1441 JUDD VIOLA M MRS
---SE 15TH AV INTERSECTS
1516 HEMRICH MARTHA E MRS ● 236-3317
1525 BALL DAVID
1531 NO RETURN
1537 JONES MARTHA G MRS ● 236-8905
1543 DAUENHAUER AMBROSE J ● 232-0203

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---SE 16TH AV INTERSECTS
---SE 17TH AV INTERSECTS
---SE 18TH AV INTERSECTS
---SP RY TRACKS CROSS
1835 ROSENFIELD RICHD 235-6953
1836 SCHMIDT HERMAN J ● 236-5100
1901 WAKEFIELD HELEN M MRS ● 234-1852
1904 COCHRAN NELLY B ● 234-6397
1914 STEELE JOHN L 235-8170
1915 HENDERSON WILLIE JR ● 236-5711
1928 SAVAGE KATH R MRS
---SE 20TH AV INTERSECTS

934

PETTYGROVE ST NW -FROM 1401 NW 12TH AV WEST

---ZIP CODE 97209
---NW 13TH AV INTERSECTS
1335 GABCO BOILER & EQUIP CO (SHOP)
---NW 14TH AV INTERSECTS
---NW 15TH AV INTERSECTS
---NW 16TH AV INTERSECTS
1605 CASON TRANSFER 228-3116
CITY TRANSFER & STORAGE CO 227-2747
FARNY TRUCK SERVICE TRUCKING 228-1164
STEWART-STILES TRUCK LINE TRUCKING 227-5240

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---NW 17TH AV INTERSECTS
1715 BEARING SALES & SERVICE BEARING DISTRIBUTION 226-7141
1725 STATES STEAMSHIP CO (WHSE)
1727 PORTLAND STEVEDORING CO (WHSE)
---NW 18TH AV INTERSECTS
1820 HAMMACK SELMA D MRS ● 228-4460
1828 PALLADY WELDING & GRINDING 227-1914
---NW 19TH AV INTERSECTS
1922 BAILEY G A WELDING 223-8931
1942 ILESHA APARTMENTS & LODGINGS 225-7028
A GASSAWAY TRAVIS F
1 BARRY EUG
2 BRYANT CAROLINE S MRS
3 SAUNDERS MAY
4 HARRILL RUBY
5 VACANT
6 HEARN M
7 KEITHLEY W
8 NEVINS MARY
9 HAWKINS MARION 223-1737
10 ARNOULD PAUL
11 FOREY EDNA
1954 E-LAB RESEARCH 222-2974
1964 AKRO MACHINING & MFG CO MACH 227-5886
---NW 20TH AV INTERSECTS
2056 MC QUAY-NORRIS MFG CO WHOL AUTO PARTS 222-4281

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---21ST AV INTERSECTS
2212 MEDOC BUILDING
BASS JERRY J ANESTHESIOLOGIST 228-6755
BRANFORD JOHN O ANESTHESIOLOGIST 228-6755
CAMPBELL DONALD D ANESTHESIOLOGIST 228-6755
CAUTHORN RICHD W ANESTHESIOLOGIST 228-6755
DOBSON DONALD P ANESTHESIOLOGIST 228-6755
GREEN P CARLYLE ANESTHESIOLOGIST 228-6755
HAMILTON NORVAL E ANESTHESIOLOGIST 228-6755
HUSBAND LYNN S ANESTHESIOLOGIST 228-6755
COPPERMAN JACK ANESTHESIOLOGIST 228-6755
ING FREDK ANESTHESIOLOGIST 228-6755
PETERS BRUCE A ANESTHESIOLOGIST 228-6755
2216 YLVISAKER PAUL D PHYS 228-2631
2220 BATTALIA JACK E PHYS 223-7124
2221 BROWN ALICE L MRS ● 227-3329
2224 HILL ARLINE MRS ● 228-3671
2231 WHITEHEAD TOM ● 228-0606
2234 KELLY KATHLEEN L 228-0372
2241 VACANT
2246 HEMORYX WILBUR J ● 227-4566
2253 APARTMENTS
1 VACANT
2 STOKES F MARION ● 227-2231
3 VACANT
4 BOWEN RUTH V 223-5034
2256 HYRONIMUS ELSIE M MRS ● 227-6164
2267 MENNONITE FRIENDSHIP CENTER 222-6546
2268 FOWLER CLAY W ● 222-5112
2274 LURIE LORRAINE J MRS 228-4813
2287 BURG RICHD 228-1280
---NW 23D AV INTERSECTS
2329 JORGENSEN ELSA M ● 223-1522
2331 STOCKS FRANKIE J MRS ●
2336 ROXEY COURT APARTMENTS
A NO RETURN
B THOMAS MABEL F 228-3068
C VAN PEVENAGE LEE R 222-4078
D NIEME PAUL 227-0887
E STUDENICKA LLOYD R 223-0940
F JOHNSTON M F 228-1079
G SMITH GLADYS W 227-0159
H WAIBLE JOHN
I SIMMONS CLYDE E 223-3392
J MC CALL DOUGLAS B 223-2087
K RIECHENSPERGER FREDRIC
L GRAFF JACK W 222-5950
M TURNER JOHN R 227-2951
2343 HYRONIMUS JOSEPH A ●
2360 ROBISON EDW T ● 223-2816
2352 MILLER L V 228-0700
2361 RIO RITA APARTMENTS
A MOSS JOYCE 223-2837
B PARKS NATASHA L 222-2404
C HOLSAPPLE HUNT T 222-2309
1 MOSBAUER BERT 223-2390
2 KELSEY LINDA
3 NO RETURN
4 HANSON RICHD D 228-2893
5 VACANT
6 REIERSON KAREN J 223-7883
7 HANSON STEWART 228-7862
8 HUMPHREY DANL
9 VACANT
10 MOSER LYNN
11 VACANT
12 VACANT
14 GUERRA SAUL
15 LANDER WM J 228-4507
16 BEGAY JAMES
17 STARNES CARNAR V
2364 APARTMENTS
1 HANSEN BRUCE
2 KELSEY WM N
4 HELLNER LLOYD
2370 NOTTINGHAM COURT APARTMENTS 228-3619
GOODSPEED MICHL 223-8532
ROCHE MICHL ● 223-8532
2372 LUCIANO JOHN 228-3619
2373 GUNDLACH EBERHART A ● 223-1304
2374 NO RETURN
2376 BERGMAN MARY J 223-3447
2378 FISHER ROLLAND T 228-1478
2380 FRIEDMAN HARRY C 223-9526
2382 VACANT
2384 EISINGER ALEX 227-4914
2386 WILLIAMS HELEN D MRS
2388 NO RETURN
2390 HAYES ALICE M 228-0460
2392 VICLIC BARBARA 222-2975
---NW 24TH AV INTERSECTS
2421 COCHRAN AGNES M MRS ● 227-5866
2434 TOPLIFF GERALDINE 222-2081
2440 MALONEY JOHN H ● 228-7924
2441 APARTMENTS
1 SPRUILL ADA A 227-9281
2 SMITH BEN A 222-4613
3 MC KENNEY ANN 223-2070
4 WERNER DWAYNE 228-3850
5 LEBECK KIN 222-5179
2450 LOUCKS NORMA MRS ● 227-1970
2455 BUXBAUM EMIL S ● 222-5379
2460 GASS JOSEPH ● 223-7605
ALTMAN HARVEY T 223-7605
2463 KAJI KENNETH H ● 227-6822
2473 ROLLANO THEO C ● 223-7522
HOLLINGSWORTH KENNETH M
2485 PAYOAK ELY 233-9879
---NW 26TH AV INTERSECTS
2524 PALLAY LEO L ● 223-9284
2534 STEVENS WM J JR 223-9298
2556 BIGGS GENE R ● 223-0944
2564 KUBIN JOE REALTOR 222-1564
KUBIN JOSEPH ● 223-3648
2572 RICH JESSE J ● 223-7675
2584 KELLY WM B ● 223-4209
---NW 26TH AV INTERSECTS
2610 MC GALIS DOLORES L MRS ● 223-3834
2624 CRESS WARREN H ● 222-6695
2636 ROSENBAUM MANIA MRS ●
2646 PETERSON LYLE E ●
2656 TEHAN JOHN E ● 223-6447
2666 HURWITT ABBY MRS ● 228-8744
2680 JENNINGS DANL E ● 223-0962
2690 GREENBERG VIOLET M MRS ●
---NW 27TH AV INTERSECTS
2705 HILTON HAROLD H ● 223-3345
2710 PHIPPS PRESTON L ● 222-2966
2715 SNOUFFER WM C
2720 WORRELL WINIFRED MRS ● 223-5588
2727 VIEW APARTMENTS
1 SEPICH NEIL E
2 LACHMAN HELEN R MRS 222-6575
3 LAMOUREUX CECILE B MRS 227-0336
4 ROUZIE A WM 223-5265
5 LINDE BETTY L MRS 228-8864
6 DAVIS LESLIE M 227-5052
7 NYWALL DAVID
8 WELCH MARIE 227-5988
9 VON FLUE ROSE I 222-5024
10 HOBSON MOLLY L 227-7411
2730 DEMAS PANAGOULA E MRS ● 227-0014
2745 APARTMENTS
1 KELTNER SHIRLEY A MRS 223-8513
2 CREECH ROBT 222-3098
3 WANN JAY W 228-1271
4 GARRISON RITA B 223-9351
5 SILVER JERRY 223-8266
6 SHADOAN PHYLLIS M MRS 227-1908
7 STONE MARIAN 223-5677
8 MARSH JOHN H 227-6219
2775 FOX THOS J ●

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PEYTON RD SW -FROM 7000 SW 63D AV WEST

---ZIP CODE 97219
6315 RINK LESTER L ● 246-7604
6316 MALOS LLOYD G ● 246-6665
6339 PRUITT ARTH J ● 246-5395
6340 SCOTT DICK E ● 224-7772
6356 ENGDAHL MILDRED B MRS ● 244-5585
6357 SHEAHAN G CAMERON JR ● 246-2014

HART SCHAFFN AND MA CLOTHE
HICKEY-FREE CLOTHE
CHURCHILL
ARROW SHI
PENDLETO ROBES AND S
FLORSHEIM S
ROSENBL Portland 601 SW Alder St Phone 226-470 and Lloyd Cen Phone 287-240
2148 NE Union Avenue
MECHANICAL CONTRACTORS—POWER AND INDUSTRIAL PIPING
COMMERCIAL PLUMBING AND HEATING
AUTOMATIC FIRE SPRINKLER SYSTEMS
Phone 281-1112

NW RALEIGH ST 1970

DEAN WITTER & CO. INCORPORATED
BONDS - INVESTMENT SECURITIES - STOCKS
MEMBERS: NEW YORK STOCK EXCHANGE ● PACIFIC COAST STOCK EXCHANGE ● CHICAGO BOARD OF TRADE
1100 S.W. 6th Avenue - Phone 226-6571 — Lloyd Center, 935 Lloyd Center - Phone 282-7211

PRINCETON ST N--CONTD
8424 LEHMANN RICHD E ● 289-7201
---N VAN HOUTEN AV INTERSECTS
5525 GORMAN PAUL J ● 289-3336
5611 RENNELLS STEPH L ●
5623 CATERINA PHILIP ● 285-6187
---N MONTEITH AV INTERSECTS
5715 FABER FRED T ● 289-8234
5722 HEILIG EVA B ●
5725 FEDJE CASPER A ● 289-8941
5800 ROANNE JERRY D 285-5986
5803 BELL ALTHEA MRS 285-1537
5808 BARNHARDT BONNIE M ● 285-5526
5811 WILLIAMS HELEN L MRS 285-2300
5815 COONS LESTER T ● 289-5354
5816 WASSMUTH RICHD H ● 289-3289
5830 SMITH HERBERT E ● 289-8348
---N MC KENNA AV INTERSECTS
5910 TURNER JOHN ● 285-4240
5925 HARVEY WALTER W ● 285-5491
5926 GIBSON VERNON E ● 285-3650
6008 MASON ED ● 288-1377
6010 MORRISON PATK G INS AGT ● 285-8912
6025 CARPENTER BOBBY F ● 285-5712
---N WALL AV INTERSECTS
6216 WRIGHT'S SANITARY SERVICE GARBAGE COLLN 286-8467
WRIGHT ARTH W ● 286-8467
---N WESTANNA AV INTERSECTS
6306 NELSON HOWARD J BLDG CONTR ● 286-5905
6314 WACK PAUL E ● 286-8475
6326 HEATH VIOLET MRS ● 286-8603
6407 ERVIN ALICE L MRS ● 285-5603
6418 BARKER FLOY E ●
6426 PRINCTON APARTMENTS 289-0718
1 BOLES JERRY L 286-3443
2 OLSON CHARLES H 286-5969
3 WOODS JOSEPHINE
4 MORGAN JUDITH
5 BERLANDO BETTY
6 DAY JOSEPHINE
7 PETERS JERRY
8 HANSEN DOROTHY
9 VACANT
STREET CONTINUED
6427 ZIRKLE SAML ●
6444 ROSEBERRY CLLIE R ● 286-8123
---N MACRUM AV INTERSECTS
6500 SMITH ELWOOD C ● 286-8469
6507 SATTERLUND'S NURSING HOME 286-8661
BELL CLARENCE 286-5942
6514 NO RETURN
6517 DIENES LOUIS D ●
6519 ANTHONY EARL C ● 286-8976
6522 CAMPBELL NELLIE I MRS ● 286-8115
6615 ALLEN LARRY C
6616 STRONG HARVEY L ● 286-8688
6626 ROSE EARL A ● 286-8536
6627 COURY JANET M MRS ● 286-8530
6635 ROLLA KENNETH R ● 286-8137
6638 PUPPO JOSEPH A ● 286-8180
6644 MORRILL WM W ● 286-8485
6651 KNIGHT KATH MRS
6652 BUSCH FRED ● 286-5625
6703 ROSS LAURA J MRS ● 286-5984
6704 BISSONETTE BERNIE F ● 286-8520
6716 GIRRES BERNARD E ● 286-8843
6727 DOCKTER RUBEN
6728 EKHOFF FLOYD E ● 286-8403
6743 TABSHY MICHL J ● 285-4280
6746 D'DRANE EDWIN G ● 285-2318
6800 WOODWARD ANNETTE MRS ● 286-5965
---N CAREY BLVD INTERSECTS

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---N IDA AV INTERSECTS
6905 WAIBLE JUDY MRS
6917 WRIGHT ROY ● 286-3029
6918 KOLSTAD MERVIN E ● 286-2369
6928 WILLIAN CARL L ● 286-8956
6929 JOHNSTON DORA MRS ●
7004 OLSON ODELL J ● 286-1805
7012 FRUTCHEY WALLACE B ● 286-2502
7027 DAHLEN LEONARD E ● 286-2884
7035 SEAL HOWARD L 286-8029
7038 WARD BERT M ● 286-3334
---N ALMA AV INTERSECTS
7104 KAADY SABRA G ● 286-4114
7105 WHITING FRANK J 286-5219
7112 BETHELL JESSE L ● 286-0979
7125 BERGLER FRED ● 286-5177
7126 MERCER IDA R MRS ● 286-0730
7134 SWINGLE LAWRENCE ●
7139 BLAKLEY ALBERT E ● 286-4680
7207 WILLIAM THOMAN 286-8652
7214 BANISTER RICHD E ● 286-0352
7235 NO RETURN
---N BURR AV INTERSECTS
7305 HUGHES DONALD P
7306 ELSEY RAY E ● 286-3524
7315 MANGUM STEVEN D 286-1248
7316 ROMJUE DARRELL E ● 286-5690
7326 SMITH EARL E ● 286-1294
7327 SERPA GARY T ● 286-5419
7333 BERRY PETER E ● 286-2093
7334 ATCHISON JOYCE M MRS ● 286-2105
7343 HATLEY DOROTHY MRS ● 286-2011
7400 NIEBUHR ELIZ G MRS ● 286-2356
7410 WHELAN HILDEGARDE E MRS ● 286-0211
7411 HAMIL JUNE A MRS ● 286-0346
7420 MAUCHLEY DALE H ● 286-0142
7421 STONEBURG RUTH L MRS ● 286-4709
7432 HEPNER GLADYS M MRS ●

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---N BUCHANAN AV INTERSECTS
---N POLK AV INTERSECTS
7724 GOULD EMMA MRS ● 286-4792
7727 MARTINSON MARGT H ● 286-0767
7735 MILLER LARRY 286-3757
7736 HALL KENNETH J 286-5331
---N TYLER AV INTERSECTS
7825 ASHER GINGER L MRS
7826 SMITH MILDRED B 286-3468
7832 BIETO WM H ● 286-0965
7837 JOHNSEN IVAN
7900 VILAND CHARLES M ● 286-4118
7910 BIETO WM
7913 STUART MARGT A MRS 286-0408
7920 RISNES OLIVE D MRS 286-5471
7921 BAPP LARRY D ● 286-8725
---N MOHAWK AV INTERSECTS
8023 MC CAIN CHARLES R ● 286-1933
8045 APARTMENTS
1 BASARABA DONALD
2 KENNETH OLSON
3 BAILEY R J
4 MC EVOY MICHL
5 VACANT
6 DULAN WM P
7 CURRIER ALICE H 286-5047
8 VACANT
9 MARTIN NORMAN K
10 POWERS BRUCE
---N OSWEGO AV INTERSECTS
---N RICHMOND AV INTERSECTS
8225 GROAT ANNE K MRS ●
8237 BEBBOUT JOHN S

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---N CHARLESTON AV INTERSECTS
8303 MOTT FRANK
8315 WILLIAMS BRYAN J 286-2880
8323 CROMBIE HAROLD F
---N JOHN AV INTERSECTS
8406 MOSER ALF B ● 286-2759
8415 REES RUTH A MRS ● 286-0714
8430 ADAMS JAMES E 286-3711
---N LEAVITT AV INTERSECTS
8504 ROSE LARRY
8513 BOWMAN GEO W ● 286-1470
8516 MC INTYRE ALEX N ● 286-3963
---N BURLINGTON AV INTERSECTS

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PROSPECT DR SW -FROM SW MONTGOMERY DR IN A CIRCLE

---ZIP CODE 97201
1725 WHITE GARY W ● 227-4395
1728 THOMAS WM F ● 223-8557
1735 BORGEN RICHD F ● 287-5251
1736 LILLEY THEO JR ● 223-7823
1739 VACANT
1743 LAPHAM DAVID D ● 228-1963
1757 BREWSTER WM L ● 228-4578
1767 ROSEN PERRY H ● 222-5361
1770 MURPHY PETER C ● 222-1502
---SW MONTGOMERY AV INTERSECTS

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QUIMBY ST NW -FROM 1501 NW 12TH AV WEST

---ZIP CODE 97209
---NW 13TH AV INTERSECTS
---NW 14TH AV INTERSECTS
1409 STANDARD FORGE & AXLE CO (WHSE)
1433 PAULSON ENTERPRISES INC OVERHD HNDLG EQUIP MFRS & SLS 228-3167
---NW 15TH AV INTERSECTS
---NW 16TH AV INTERSECTS
1638 S & H TRUCKING CO TRUCK TRAILER LEASING 224-4050
---NW 17TH AV INTERSECTS
1732 MARINE BUILDING PACIFIC INLAND TARIFF BUREAU 226-2841
PORTLAND STEVEDORING CO 226-2565
TRANSPORT CLEARINGS OF PORTLAND TRANS LINES 226-3493
---NW 18TH AV INTERSECTS
1818 PARTS HEADQUARTERS AUTO PARTS WHOL 222-3204
T R W REPLACEMENT AUTO PARTS WHOL 222-3204
1828 PACIFIC WHEEL AND RIM SERVICE TRUCK PARTS DISTR 224-7210
---NW 19TH AV INTERSECTS
1925 HYDRAULIC & AIR EQUIPMENT CO 222-3295
1930 COULTER ELIZ M MRS ● 223-2881
1933 PRODUCTION MACHINES INC PLYWOOD & VENEER 226-6689
1985 HILL HARRY S CO PRNTG MACHY DLRS 226-3644
---NW 20TH AV INTERSECTS

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---ZIP CODE 97210
---NW 21ST AV INTERSECTS
2126 STEPHENS NATALIE H MRS ● 227-2974
2154 PLANCICH VINCENT F ● 227-5863
2156 VACANT
2158 WILSON DONIS E MRS 227-5062
2160 VACANT
2162 VACANT
---NW 220 AV INTERSECTS
2215 GENERAL CABLE CORP WIRE MFRS 227-5555
2220 DAVIS INDUSTRIAL PRODUCTS INC INDUSTRIAL EQUIP & SUP 226-1221
2244 MARK-NAUGHT CO 224-5508
2245 ISLER FREDA MRS ● 223-9702
2256 APARTMENTS
1 JOHNSON TIMOTHY C
2 BRUNDRIDGE CHERYL MRS
3 RHEALAN TOM
4 GRISIM BARBARA
2259 D & S SUPPLY CO WHOL PAPER PRODUCTS 226-6013
2266 APARTMENTS
5 JELLUM PAUL A 223-9923
6 VACANT
7 HOSTETLER GLEN
7 SCHROCK JIM
8 NO RETURN
2277 FAFNIR BEARING CO THE 222-1917
MAY J H CO AUTO ACCESSORIES & SUPS WHOL 224-3647
---NW 23D AV INTERSECTS
2313 RING JAMES R 222-7111
2315 ANDERSON CAROL A MRS 223-2293
2317 BLOOMBERG HYMER ● 223-9752
2324 BAIRD ESTHER 223-0272
SPORY DONNA
1 NABRY BARBARA 227-1560
2 LIVELY CHRIS
3 MARTINEZ JOE D
4 WHEELER ROSS W
2344 VACANT
2355 BE LUSKO JOSEPH V CO 222-6279
INDEPENDENT DISTRIBUTORS WHOL FARM EQUIP 226-7966
2356 KARATE ASSN INC OF OREGON 227-2977
TERRILL IRVIN H ● 223-9632
2360 ELECTRICAL SPECIALTY CO MFRS AGTS 227-3601
2367 VACANT
2369 PORTLAND NATIONAL FILM SERVICE MOTION PICTURE FILM DISTRS 224-6205
2384 DIDAK HELENA MRS ● 223-2884
2390 DIDAK'S FOUNTAIN RESTR 222-2416
---NW 24TH AV INTERSECTS
2420 JOYCE COURT APARTMENTS 222-5089
1 KAPLAN HYMAN 222-3015
2 MEAKER GEORGIA MRS 223-0107
3 GREENWELL HERB 227-4906
4 WILCOX EVERETTE 222-5089
5 DILSHEIMER LLOYD M 223-1712
7 PELLON IONA MRS 223-7812
8 VACANT
9 RAMAGE MARGT MRS 227-6938
10 WATERBURY BERTHA M MRS 222-2682
11 WARNER LOIS M 227-1335
12 LITKIN N V
13 SHEAHAN HELEN D MRS 228-0510
14 BUTLER MILDRED 228-1760
15 GRAD REVA MRS 222-4654
16 HERDT EMMA JEAN 223-7919
---STREET CONTINUED
2433 GILBERT ANN 222-7171
HITESHEW PAULINE MRS 223-3289
KREMERS JESSIE 223-3951
DANLEY W PAUL 227-0324
2434 MC NAMEE LA VERNE L ● 227-0214
2445 HOCHSTETLER LAMAR E 228-4296
VACANT
2446 REZNIK CHAIM ● 223-2933
2455 WESTVIEW APARTMENTS
A AHYNE OLGA MRS
100 WORLEY LARRY
101 PROTHER PERCY
102 GRUBBS OSCAR
103 THOMPSON WILLIS M 228-3913
104 VACANT
105 LEMBECK JACK W 228-6846
106 RITCHIE ETHEL H MRS
107 CARLSON BURNELL M 228-0974
200 JACOBY LULA MRS 227-7925
201 PURCELL DENIS A
202 HORN FLORENCE 223-8981
203 VACANT
204 JETTE ETTA
205 RULLNER ROLLAND
206 SUEPER ALPHONSE F
207 THOMPSON AL
STREET CONTINUED
2456 MILLER JOY E MRS ● 223-5963
2463 SARGANT WM E ● 228-4895
2473 BAKKEN LARRY
2473A LA VIOLETTE RICHD
2479 WEIRICH WM W ● 223-6053
2480 JUNE COURT APARTMENTS
1 RUSSELL MARY H 227-7819
2 ELLIOTT VELMA 227-5773
3 CATTON ETHEL MRS 227-4855
4 REIMERS RALPH G 227-0903
5 WINTERS GERTRUDE M MRS 223-1424
6 GRIFFITH MC DONALD 222-5474
7 PORTWOOD MARGT
8 ROBERTS MABEL E 228-3693
9 SCHOCH MARION L 223-1635
10 PEBWORTH DAVID M 223-1088
11 POLSON ROBT G 223-8876
12 DOWLING MABELLE 227-5997
13 BERG ROBT G 228-9704
14 UNDEN HERMAN 227-5344
15 NICHOLS OPAL 227-1073
16 WILLIAMSON ROBT J 222-4841
STREET CONTINUED
2487 LEIOTKE FRED ● 222-1583

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---N W 27TH AV INTERSECTS
2716 CHAPMAN KERRY C 222-5126
2718 MC CARTNEY WALTER H ● 222-8154
2721 MC MURTRIE RAY A 227-4675
2724 OJALA HULDA 223-4866
2727 NIPP EVELYNE M ● 227-1308
2728 GREENBAUM SAML L 226-6907
2733 NELSON NORMAN A 227-6105
2734 RICE LEWIS D 227-1067
2735 BURKE ROBT W 228-1597
2736 MINTZ HOWARD H ●
2741 KOSCHUTA HEINZ 223-0596
2745 PETERSON FRANK E 222-2335
2746 THURSTON MELVIN L ● 223-8629
2748 HOLMAN SHIRLEY MRS 222-7109
2755 PARKER RICHD S 223-7020
2757 CASE AUSTIN M ● 228-4695
2760 MC INNIS MABEL E MRS ● 223-8221
2761 ARNOLD RAYMOND C JR 223-0316
2762 CRAFT JERRY 227-3064
2763 STELLAR NEIL
2765 SIMON EMI S MRS 223-6201
2771 REIGLE MARTIN E 227-6151
2773 FRIEDMAN BERTRAM P 228-3065
2775 HENDERSON ELLEN MRS 228-1712
2785 BARTOLON FRANK D
---N W 28TH AV INTERSECTS

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---NW 29TH AV INTERSECTS
2901 SHLIM NATHAN ● 228-4404
2910 LIPMAN MIRIAM MRS ● 223-1074
2930 NOHLGREN JOSEPH E ● 228-7689
2941 BRUCKNER ROBT J ● 228-1484
2951 BERLIN QUINCY A ● 223-3056
2960 HOPKINS DAVID W ● 223-0254
3004 MORGAN ELLISON C ● 227-1360
3009 LE FEBVRE PATK W ●
3022 NELSON JOHN G ● 223-1312

215

RADCLIFFE ST SW -FROM SW 61ST AV WEST 1 SOUTH OF SW HUBER ST

---ZIP CODE 97219
---SW 61ST AV INTERSECTS
6100 TABIN CLARENCE A ● 246-3097
6127 JOHNSON HENRY B ● 244-2055
6130 REUTER HAROLD D ● 244-8264
6141 LUMAN IRA D ● 244-1843
6144 WOODMAN DON J ● 244-2212
---SW 62D AV INTERSECTS
6221 VAAGE DEAN S 246-1515
6234 STEVENS LENN J ●
6237 LIVELY EARL S ● 244-3813
6308 JONES DARWIN E ● 246-4163
6315 MARG E G C 244-4061
6324 AAS GARY L ● 244-5359
6331 WEIGANT RICHD 244-4320
6340 BROWN FLOYD R ● 246-4132
6405 MC CLEERY LEE REV ● 245-6848
6410 GUENTHER ROMAN L ● 244-2144
6428 DISCHER LARRY F ● 244-7336
6444 DORNER WM J ● 244-3250
6445 WACHSMUTH DAN N ● 244-1429

51

RAILROAD ST N -FROM 2212 N ALBINA AV WEST

---ZIP CODE 97227
---N LEWIS AV INTERSECTS
---N CLARK AV INTERSECTS
---N HARDING AV INTERSECTS
---N RANDOLPH AV INTERSECTS

23

RAINIER TER NW -FROM NW ARIEL TER SOUTH 1 WEST NW ROANOKE

400 VACANT
408 DRUM M JOSEPHINE MRS ● 223-0236

912

RALEIGH ST NW -FROM 1601 NW 12TH AV WEST

---ZIP CODE 97209
---NW 13TH AV INTERSECTS
1313 BURLINGTON NORTHERN INC (SHOPS)
1350 BENSON TOM GLASS CO INC 226-7611
---NW 14TH AV INTERSECTS
1400 AUTO WHEEL SERVICE INC MFRS 228-9346
---NW 15TH AV INTERSECTS
---NW 16TH AV INTERSECTS
---NW 17TH AV INTERSECTS
---NW 18TH AV INTERSECTS
---NW 19TH AV INTERSECTS
1935 APARTMENTS
1 IGGULDEN CECIL S 222-5054
2 PAPPAS JAMES 222-7217
3 NO RETURN
4 WILSON KENNETH 228-4890
1936 APARTMENTS
1 SUMBLIN RONALD
2 DASEN FRED 227-2810
3 HAMILTON ALAN
4 FINCK WM R
1945 MC CALLEN WM L ● 223-5065
1955 APARTMENTS
1 OLSON IVER 228-0893
2 MOORE EDITH MRS ● 223-6024
3 JORGENSEN ERIC 228-8517
4 WILSON ORVAL E
1956 RALEIGH COURT APARTMENTS 233-5045
1 QUERFELDT GILBERT E 222-4079
2 HILT PETER M 223-9485
3 THURMAN LOREN E 223-5045
4 PENNINGTON PAUL E 227-2807

Portland Motor Hotel 1414 SW 6th Avenue Phone 226-1411
509 SE Hawthorne At Grand Phone 236-1151

TP	Adjoining	Source
-	✓	R.L.Polk Co.

RALEIGH ST NW 1965

PORTLAND
WIRE & STEEL WAREHOUSE
4706 S.E. 18th AVE. PORTLAND PHONE 234-9731

PRINCETON ST N--CONTD
8303 COX GEO H ⊕ 286-3107
8315 VACANT
8323 NEUMANN ARNOLD W G ⊕ 286-2123
STREET CONTINUED
---N JOHN AV INTERSECTS
8415 REES WM C ⊕ 286-0714
---N LEAVITT AV INTERSECTS
8406 UNDER CONSTN
8422 VACANT
8504 STEPHENSON WANETA MRS 286-2531
8513 BOWMAN GEO W ⊕ 286-1470
8516 MC INTYRE ALEX N ⊕ 286-3963
---N BURLINGTON AV INTERSECTS

151

PROSPECT DR SW --FROM SW MONTGOMERY DR IN A CIRCLE

1725 WOLF HARRY P ⊕ 223-2885
1728 ROBBINS J GILBERT JR ⊕ 228-5737
1735 DAVIS THOS A ⊕ 222-4530
1736 LILLEY THEO JR ⊕ 223-7823
1739 ROWLAND WILLARD D ⊕ 227-5853
1743 LAPHAN DAVID D ⊕ 228-1963
1757 BREWSTER WM L ⊕ 228-4578
1767 VACANT
1770 MURPHY PETER C ⊕ 223-9176
---SW MONTGOMERY AV INTERSECTS

912

QUIMBY ST NW --FROM 1501 NW 12TH AV WEST

---13TH AV INTERSECTS
---14TH AV INTERSECTS
1433 PAULSON-NISSEN CRANE CO OVERHD HNDLG EQUIP MFRS & SLS 226-3967
---15TH AV INTERSECTS
---16TH AV INTERSECTS
---17TH AV INTERSECTS
1732 MARINE BUILDING
PACIFIC INLAND TARIFF BUREAU 226-2841
PORTLAND STEVEDORING CO 226-2565
TRANSPORT CLEARINGS OF PORTLAND TRANSP LINES 226-3493
---18TH AV INTERSECTS
1818 PARTS HEADQUARTERS AUTO PARTS WHOL 222-3204
1828 PACIFIC WHEEL AND RIM SERVICE TRUCK PARTS DISTR 224-7210
---19TH AV INTERSECTS
1925 HYDRAULIC & AIR EQUIPMENT CO 222-3295
1930 COULTER ELIZ M MRS ⊕ 223-2881
1933 PRODUCTION MACHINES INC PLYWOOD & VENEER 226-6809
---20TH AV INTERSECTS
2029 CONSOLIDATED FREIGHTWAYS INC (SHOP) 227-2561

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---NW 21ST AV INTERSECTS
2126 STEPHENS NATALIE H ⊕ 227-2974
2154 PLANCICH VINCENT F ⊕ 227-5863
2156 VACANT
2158 WILSON CLINTON R 227-5062
2160 MISAR DIANE M MRS 222-1458
2162 HANSEN DETECTIVE BUR (GARAGE)
---NW 22D AV INTERSECTS
2215 GENERAL CABLE CORP WIRE MFRS 227-5555
2224 APARTMENTS
A RICHARDSON RUTH P 223-0058
B VACANT
C CUMMINS JOHN W 228-2555
D BARBER NELLIE L
STREET CONTINUED
2234 APARTMENTS
A MASON ROBT E 222-5468
B TURTLETAUB SARAH MRS 222-6277
C OLSON CLYDE 223-1869
D BAGGETT CONRAD J 223-6577
2244 TRUCK PARTS DISTRIBUTING INC WHOL 222-3268
BERG MANUFACTURING & SALES CO WHSE 223-5420
2245 ISLER FREDA MRS ⊕ 223-9702
2256 APARTMENTS
A BRYAN MYRTLE 223-8830
B URQUHART MINNIE MRS 222-3153
C WITTHAR JAMES E 228-4536
D HOUSER CHARLES H
STREET CONTINUED
2259 D & S SUPPLY CO WHOL PAPER PRODUCTS 226-6013
2266 APARTMENTS
A PAUL MACELLE I 223-5490
B ALLEN LILLY M 227-4249
C PFAU JACOB
D BLACKBURN TONY D 223-2747
---NW 23D AV INTERSECTS
2313 BARTON KATH MRS 223-3697
2315 NO RETURN
2316 FLOREA DANL D ⊕ 227-7019
2317 BLOOMBERG HYMER ⊕ 223-9752
2324 CAGLE SANDRA
2336 APARTMENTS
1 MARTINEZ JOSEPH D ⊕ 227-1053
2 BROWNING M
3 URBIE EVELYN
4 HEISTERMAN ROBT C 227-4307
STREET CONTINUED
2344 SIMS HAROLD C ⊕ 222-1238
2355 INDEPENDENT DISTRIBUTORS WHOL FARM EQUIP 226-7699
2356 KARATE CLUB 227-2977
TERRILL IRVIN H ⊕ 227-2977
2360 ELECTRICAL SPECIALTY CO MFRS AGTS 227-3601
2369 PAC N W BELL (MOBILE TEL SERV CENTER)
2384 DIDAK HELENA MRS ⊕ 223-2884
2390 DIDAK'S FOUNTAIN RESTR 222-2416
---NW 24TH AV INTERSECTS
2420 JOYCE COURT APARTMENTS
1 KAPLAN HYMAN 222-3015
2 MULQUIN EMORY T 223-8477
3 KEVEN EDITH M 223-0780
4 CURRY EDW R 223-0223
5 DILSHEIMER LOUIS 223-1712
7 PELLON IONA MRS 223-7812
8 BELLEPERCHE ALBERT J 222-2807
9 RAMAGE MARGT MRS
10 NO RETURN
11 WATERBURY BERTHA MRS 222-2662
12 GIBB JOYCE
13 MURPHY BARBARA 223-1313
14 BELLAMY KATHLEEN V 222-7266
15 ENGLERT BLANCHE M MRS 223-5048
16 MAAS ERNEST O 222-7082
2433 HITESHEW PAULINE MRS 227-2848
MEDLIN JOHN M 223-9745
KREMER JESSIE 223-3951
RECKOFF OPAL M MRS 223-2234
2434 RADAKOVICH JOSEPH ⊕ 223-8054
2445 BACON E C
LINCOLN THOS W 222-4670
JENKINS LEE MRS 223-4519
2446 REDO ERNEST E ⊕ 223-2533
2455 WESTVIEW APARTMENTS 223-0471
A BUSHMAN NORMAN C 223-0471
100 KLIEN ALVIN
101 HAMAR JULIA MRS 227-7668
102 RITCHIE ETHEL
103 PIERSON ESTHER L 223-0572
104 MANGOLD JO B 223-9394
105 NO RETURN
106 JEANNET DOROTHY
107 VAN DE NEY RUTH E 223-1894
200 VACANT
201 PURCELL DENIS A
202 VACANT
203 DARBY STEVEN L 227-1834
204 THOMPSON ARNOLD J 223-0769
205 VACANT
206 MILLERWICK HENNING
207 VACANT
STREET CONTINUED
2456 MILLER JOY E MRS 223-5963
2463 SARGANT WM E ⊕ 228-4895
2473 VACANT
2479 WEIRICH OLIVE N MRS ⊕ 223-6053
2480 JUNE COURT APARTMENTS
1 MILSTEAD H M 223-0453
2 ELLIOTT VELMA 227-5773
3 SHANNON ANN
4 REIKERS RALPH G 227-1632
5 WINTERS GLEN R 223-1424
6 BERG ROBT G 228-9704
7 MONTGOMERY JANE MRS 223-4357
8 VACANT
9 SCHOCH MARION L 223-1635
10 GARRETT ROBT 227-1068
11 MILLER EVA J 227-7361
12 ADAMS KENNETH D 223-3210
13 BULGER DAVID V 228-0079
14 UNDEN HERMAN 227-5344
15 COX KENNETH J 223-2714
16 WILLIAMSON ROBT J 222-4841
STREET CONTINUED
2485 MITCHELL CASSIE T MRS 223-7594
2487 LOWBLAD FRANA ⊕ 222-1583

29

---N W 27TH AV INTERSECTS
2716 SPENCER EUG D 223-1251
2718 MC CARTNEY WALTER H ⊕ 222-5154
2721 MC MURTRIE RAY 227-4675
2724 OJALA HELGA 223-4686
2727 WIPF EVELYNE M ⊕ 227-1308
2728 O'DONNELL JACK C
2733 REIMER GERALD R 228-4438
2734 COX BARBARA H 227-3348
2735 STRYKER EDW W 227-5915
2736 MENTZ HOWARD H ⊕ 228-3602
2741 REILLY RONALD 227-2372
2745 PETERSON FRANK E ⊕ 222-2335
2746 BISH VIVIAN A MRS ⊕ 223-5013
2748 HOLMAN SHIRLEY MRS 222-7109
2755 FORBES MELVIN 222-2269
2757 BECRAFT HARRY R ⊕ 227-6117
2760 MC INNIS JOHN A ⊕ 223-8221
2761 TILLOTSON LENA F MRS 228-5392
2762 COWAN BEN G 223-4562
2763 ZAIK DAVID I 228-3258
2765 SIMON EMI S MRS 223-8201
2771 VACANT
2773 FRIEDMAN BERTRAM P 228-3065
2775 COLVIN LE GRAND 222-5863
2785 CARSWELL HENRY J 222-7445
---N W 28TH AV INTERSECTS

27

---NW 29TH AV INTERSECTS
2901 SHLIN NATHAN ⊕ 228-4404
2910 LIPMAN BURTON L ⊕ 223-1074
2930 NOHLGREN JOSEPH E ⊕ 228-7889
2941 BRUCKNER ROBT J ⊕ 228-1484
2951 EVANS GEO L ⊕ 223-3735
2960 GAULT L REX ⊕ 223-7001
3004 MORGAN ELLISON ⊕ 227-1360
3009 LE FEBVRE PATK W ⊕ 223-9911
3022 NELSON JOHN G ⊕ 223-1312
---NE 30TH AV INTERSECTS

51

RAILROAD ST N --FROM 2212 N ALBINA AV WEST

---N LEWIS AV INTERSECTS
---N CLARK AV INTERSECTS
---N MARDING AV INTERSECTS
---N RANDOLPH AV INTERSECTS

23

RAINIER TER NW --FROM NW ARIEL TER SOUTH 1 WEST NW ROANOKE

408 DRUM WILL ⊕ 223-2416

912

RALEIGH ST NW --FROM 1601 NW 12TH AV WEST

---13TH INTERSECTS
1313 SPOKANE PORTLAND & SEATTLE RAILWAYS (SHOPS)
1350 BENSON TOM GLASS CO INC 226-7611
---14TH AV INTERSECTS
1400 AUTO WHEEL SERVICE INC MFRS 228-9346
---15TH AV INTERSECTS
1511 OVERLAYS INC BLDG MATLS 222-5687
1524 VACANT
---16TH AV INTRSECTS
1639 PROCTOR & GAMBLE (STGE)
---17TH AV INTERSECTS
---18TH AV INTERSECTS
1820 MISETICH ANTONIA MRS 223-0649
1830 MORRIS OPAL MRS 227-2322
---19TH AV INTERSECTS
1915 WORLD WIDE DODGE (STGE LOT)
1935 APARTMENTS
1 IGGULDEN CECIL S 222-5054
2 VACANT
3 NO RETURN
4 FULTZ ARTH R 228-5549
1936 APARTMENTS
1 PYBURN RALPH W 228-0700
2 MUELLNER RALPH E 228-6543
3 STARK DOROTHY N 223-5456
4 KINBALL GREGORY H
1945 MC CALLEN WM L 223-5065
1955 APARTMENTS
1 OLSON JESSIE MRS 222-1291
2 MOORE EDITH L MRS ⊕ 223-6024
3 AKLIN WALTER G
4 SIMSHAW JOSEPHINE K 223-6654
1956 RALEIGH COURT APARTMENTS
1 DUERFELDT GILBERT E 222-4079
2 TROXEL GARY L
3 THURMAN LOREN E ⊕ 223-5045
4 PENNINGTON PAUL E 222-4331
1965 EDNA APARTMENTS
1 MULLIGAN EDNA G MRS ⊕ 223-2835
2 KONDEITZ MARY E 227-0183
3 TROENDLY RAY E
4 VACANT
STREET CONTINUED
1966 APARTMENTS
1 PATTY GLENDA M 228-4275
2 GAVIN NANCY MRS 228-9754
3 HILT PETER M 223-9485
4 THOMAS CORNELIUS F
STREET CONTINUED

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---NW 20TH AV INTERSECTS
---NW 21ST AV INTERSECTS
2170 ZELLERBACH PAPER CO (WHSE)
---NW 22D AV INTERSECTS
2219 TUCKER-EMMRICH CO COFFEE ROASTER 228-5913
2222 PAC NW BELL MTCE & CONSTN 226-8551
2258 GENERAL RUBBER & SUPPLY CO INC WHOL MILL SUPS 228-6565
2265 KOVACH PAULINE A MRS ⊕ 222-4195
2268 VACANT
2274 CURTISS CREDLA MRS ⊕
---NW 23D AV INTERSECTS
2309 HOBBS ERNEST B
2311 NOAH DAVID
2330 CRUCIBLE STEEL CO OF AMERICA 222-1768
---NW 24TH AV INTERSECTS
2409 KELLY CATH ⊕ 228-5367
2414 MEISHAUL CO TRUCKING 228-3751
2417 WELBAUM GLENN ⊕ 222-2689
2424 MITCHOFF ANNE MRS 223-3271
2425 SAITO TOM T ⊕ 223-3851
2434 CARTER LEAH I MRS ⊕ 223-2294
2437 PUCIK JOE ⊕ 223-3474
2440 BANZER ROBT L ⊕ 223-7487
2445 GALVIN MERRILL L ⊕ 223-1955
2450 KANESHIGE ICHIJI ⊕ 228-2510
2455 TAMIYASU MASAO 228-1493
2456 MAY JOE ⊕ 223-1696
2462 LAWRENCEBERRY ROBT E ⊕ 228-8784
2465 MITTLEMAN RALEIGH APARTMENTS 227-9270
A MANNELL ROBT W 227-9270
100 BURKE JOY 223-4682
101 VACANT
102 ROSERO DIANE J 223-3394
103 ROBBINS FAT MRS
104 STEINHOFF ARTH
105 VACANT
106 TUTTLE HATTIE MRS
107 VACANT
200 ACKERMAN MELVIN
201 MILLER ALBERT C
202 HUTSON HARLEY
203 VACANT
204 HOFMANN WM A 222-1423
205 MUNICH MYRTLE
206 LARSON BETH
207 VACANT
STREET CONTINUED
2470 PRICE DOROTHY MRS ⊕ 222-7405
2475 APARTMENTS
1 DOWELL PATRICIA 227-7335
2 DUNNUCK BELLE MRS 222-2763
3 DIKEMAN IRMA
4 RAYNER ELIZ F
5 DE LASHMITT GALE F ⊕ 227-5210
6 RUSSELL J D 223-3826
STREET CONTINUED
2480 WILSON THOS K ⊕ 228-0434
2486 BRANDTNER BENJ A ⊕ 228-4461
2489 BAKER JAMES T ⊕ 227-3973

29

---NW 25TH AV INTERSECTS
2503 QUEEN ANNE APARTMENTS 223-5051
101 JOHNSON DAISY V MRS 227-2967
102 LAMM DANL C 223-5051
103 CAREY MYRTLE H MRS 223-1409
104 MOORE IDA M MRS 223-0126
201 NACKERS LEON J 228-1647
202 EICHMAN DON 222-T277
203 GREEN GAYLE 223-0431
204 POLKEY WM J
205 ROBINSON GEORGE W
206 VACANT
301 FERRIER LAURETTA S 222-5168
302 BELZ MARIE C MRS
303 VACANT
304 DERKE HILDA
305 BANDER SIGMUND E 223-5426
306 HUFFMAN LIONEL A 223-1412
STREET CONTINUED
2525 BROWNELL LA VELLE MRS 222-1538
2535 SKARIN VERNEDA E MRS 222-6191
2543 ERAUTT WM ⊕ 223-3422
2555 ALLISON RALPH H ⊕ 227-2201
2568 BOTTS ENNETT
2567 DORN RUSSELL A 227-4379
2575 FRANKS HAROLD 223-0020
2577 JONES ELLEN J 223-4962
2585 GODDMAN DICK SALVAGE DLR 222-4160
2587 DECKER LELAND J ⊕ 223-5006
---N W 26TH AV INTERSECTS
2621 JAN-MAR COURT APARTMENTS 227-0713
10 RICHES FRANK M 228-0055
12 VALA CHARLES L 227-2723
14 VACANT
16 FELLOWS RUBY
18 THOMPSON JEANNE 223-4057
20 SPARKS RAY 227-0713
21 ELSNER ELLA 222-2780
22 JOHNSON ALLEN
23 STAMBAUGH GERALD
24 CHRISTENSEN LLOYD
25 BROWN SYLVIA E MRS 223-7981
26 ZOK GEO
27 PETRILLI MICHL 227-4536
28 BRASHER MARLENE
29 THOMAS RONALD L 227-5040
30 BROWN OLIVE E MRS 228-3660
31 DOUCETTE RICHD
32 GILPIN JAMES L 227-3326
33 CLIFTON J ERLING 227-4117
34 GILLMORE MILORED
35 ROETER FLORENCE
36 PELUSCHAMKO MAX
37 HIMMELFORB MYRA 222-2967
38 WANN IDA MRS
39 BAILLIE OSCAR
STREET CONTINUED
2653 GUSTAFSON ROBT M
2657 WETZLER GEO 222-5497
2665 LOLICH STEVE A ⊕ 223-6498
2667 DALE EUG I 227-3324
2673 JOHNSON JOHN M ⊕ 228-0002
2675 SCHULBERG LELA MRS 228-5617
2683 YOUNG ROSEMARY D MRS 227-7241
2687 MURDOCH JOHN M 223-8924
---N W 27TH AV INTERSECTS
2703 MASTERS FRIEDA E MRS ⊕ 227-2379
2712 BE LUSKO JOSEPH V ⊕ 223-2241
2715 JOHNSON ARTH J ⊕ 227-0728

RALEIGH NW 1960

411 S. W. 6th Ave. Tel. CApitol 2-1741

QUIMBY, NW—Contd
1720 Vacant
1732 **Marine Building**
Pacific Inland Tariff Bureau Inc
△ CA 6-2841
Portland Stevedoring Co
△ CA 6-2565
Transport Clearings of Portland
△ CA 6-2841
NW 18th av intersects
NW 19th av intersects
1917 Jackson Lee W △ CA 3-1815
1935 Freightliner Corp (br) truck bodies △ CA 7-5511
1930 Coulter Eliz M Mrs ⓪
△ CA 3-2881
NW 20th av intersects
2009 Salvage Canteen
2029 Consolidated Frtways Inc (shop)
△ CA 7-2561
Consolidated Freightways
Western Operations Ofc
△ CA 7-2561
31
NW 21st av intersects
2126 Stephens Natalie Mrs ⓪
△ CA 7-2974
2146 Crooks P L & Co Inc (rear entr)
2154 Plancich Vincent F ⓪
△ CA 7-5863
2156 Vacant
2158 Wilson Clinton R △ CA 7-5062
2160 Weber Bertie Mrs
NW 22d av intersects
2215 Genral Cable Corp wire mfrs
△ CA 2-7115
2224 **Apartments**
A Vacant
B Reihl Wm △ CA 2-7467
C Penninton Paul E △ CA 2-4331
D Gaines LaVerne △ CA 8-8834
2225 Benart Bertha ⓪ CA 3-2970
2234 **Apartments**
A Mason Robt E
B Bauman Jack Mrs
C Holmes Patricia A
D Duvall Richd
Street continued
2244 Truck Parts Distr Inc
△ CA 2-3268
2245 Isler Fred A △ CA 3-9702
2256 **Apartments**
A Ahern Eliz L △ CA 3-9195
B Hardberger Claude △ CA 7-1942
C Vacant
D Smith Ed
Street continued
2259 O & S Supply Co paper products
△ CA 6-6013
2266 **Apartments**
A Paul Maccile I △ CA 3-5490
B Richard Gertrude L Mrs
△ CA 3-0449
C Collins Maria A Mrs
△ CA 3-7078
D Wright Betty Mrs
△ CA 2-2637
Street continued
2273 Martinson Robt E ⓪
△ CA 7-4038
NW 23d av intersects
2313 Kellogg Adelbert M △ CA 8-0723
2315 Culley Doris D Mrs
△ CA 8-1975
2316 Florea Danl D ⓪ △ CA 7-7019
2317 Bloomberg Hymer ⓪
△ CA 3-9752
2324 Chries Donald F
2336 **Apartments**
1 Howe Barbara
2 Baty DeVona Mrs
3 Urbie Evelyn
4 Martinez Joe D ⓪ △ CA 3-9467
Street continued
2344 Sims Harold C ⓪ △ CA 2-1238
2355 Studebaker-Packard Corp autos △ CA 8-8256
2356 Terrill Irvin H ⓪ △ CA 7-2977
2360 Automatic Elec Sls Corp tel sups
△ CA 3-7244
2369 Pac Tel & Teleg Co (Mobile Tel Serv Center)
2384 Didak Jos J ⓪ △ CA 3-2884
2390 Didak's Fountain restr
△ CA 3-2884
NW 24th av intersects
2420 **Joyce Court Apartments**
1 Kaplana Hyman △ CA 2-3015
2 Mulquin Emory T △ CA 3-8477
3 Herns Julius I △ CA 7-5793
4 Tutty Ross D △ CA 3-0223
5 Nagel Robt A △ CA 8-8862
7 Morris Audrey S Mrs
△ CA 3-3401
5 Gans Hortence L Mrs
△ CA 3-4417
9 Ledtke Wilfred
10 Harpster Gerald △ CA 7-6157
11 McCraken Jean △ CA 2-4313
12 Nelson David W △ CA 8-4285
13 Forbes Frances R △ CA 8-0348
14 Mesher Ronald K △ CA 8-3587
15 Benson Robt
16 Medearis Kenneth C
△ CA 8-0309
Street continued
2433 Inbrogno Augustus L ⓪
△ CA 3-3873
Tait Shirley J Mrs △ CA 8-2436
Kremer Jessie △ CA 3-3951
2434 Radakovich Jos ⓪
△ CA 3-8054
2445 Archibald E Dean △ CA 3-7665
Burt James A △ CA 3-4765
Reckoff Opal
2446 Reed Ernest E ⓪ △ CA 3-2533
2455 **Westview Apartments**
A Schwartz Herman B
△ CA 3-4825
100 Jacobson Bert W △ CA 3-9442
101 Vacant
102 Harrah Chas M △ CA 7-4169
103 Beckman Robt R
104 Wood Timothy
105 Lembeck Jack W △ CA 3-7779
106 Vacant
107 Handley Carol E △ CA 3-3803
200 Kimball Helen W Mrs
△ CA 2-7347
201 Vacant
202 Ross W A △ CA 8-0479
203 Vacant
204 Freud Herbert W jr
205 Carroll Francis J △ CA 3-2219
206 Vacant
207 Schmidling Eleanor Mrs
Street continued
2456 Osborne Wm B jr ⓪
△ CA 7-7465
2463 Sargant Wm E ⓪ △ GA 8-4895
2473 DeHarpport Floyd E ⓪
△ CA 7-4285
2479 Weirich Olive N Mrs ⓪
△ CA 3-6053
2480 **June Court Apartments**
1 Eakin Gertrude M
△ CA 3-7569
2 Holzman Irvin B
△ CA 3-1255
3 DeLong Kenneth G
△ CA 8-5637
4 Reimers Ralph G △ CA 7-1632
5 Ardiss Aug C △ CA 3-4487
6 Berg Robt G △ CA 8-9704
7 Montgomery Helen J Mrs
△ CA 3-4357
8 Bowdish LeRoy J △ CA 7-4353
9 Schoch Marion L △ CA 3-1635
10 Dawson Irene △ CA 8-5814
11 Jenkins Norma Mrs
12 Adams Kenneth D △ CA 3-3210
13 Bulger David V △ CA 8-0073
14 Unden Herman △ CA 7-5344
15 Buek Merle K △ CA 7-2165
16 Satalich Adolph △ CA 8-2273
Street continued
2485 Mitchell Cassie T Mrs
△ CA 3-7694
2487 Sitter Carl ⓪ △ CA 7-7810
29
NW 25th av intersects
2716 Vacant
2718 McCartney Walter H ⓪
△ CA 2-5154
2721 Lewis Kenneth △ CA 3-2338
2724 Vacant
2727 Weisseit Bryce △ CA 3-4419
2728 Silver Clair D △ CA 3-3673
2733 Antonsen Theo R △ CA 2-6101
2734 Vines Harry
2735 Brevet Jan jr
2736 Vacant
2741 Maks Steph W △ CA 8-5664
2745 Hanks Wm △ CA 7-5154
2746 Brenneise Joseph △ CA 3-9295
2748 Bish Vivian Mrs △ CA 3-5013
2755 Rider Ray M △ CA 7-6074
2757 Peters Melvin A ⓪
△ CA 7-1539
2760 McInnis John A ⓪
△ CA 3-8221
2761 Vacant
2762 Cowan Ben G △ CA 3-4562
2763 Zutk David △ CA 8-2256
2771 Hersh Justin S △ CA 3-1252
2773 Friedman Bertram P
△ CA 8-3065
2775 Lopez Elsa P Mrs
△ CA 7-7949
2785 Carswell Henry J △ CA 2-7445
27
NW 29th av intersects
2901 Shlim Nathan ⓪ △ CA 8-4404
2910 Lipman Burton L ⓪
△ CA 3-1074
2930 Nohlgren Jos E ⓪
△ CA 8-7889
2941 James Marshall B ⓪
△ CA 2-1448
2951 Reinhardt Justin N ⓪
△ CA 3-4472
2960 Gault L Rex ⓪ △ CA 3-7001
NE 30th av intersects
3004 Lessing Robt Rev △ CA 3-8616
3009 Merrifield Harry B ⓪
△ CA 3-7658
3022 Nelson John G △ CA 3-1312
3048 Parker Geo R △ CA 2-4738

51
RAILROAD, N — From 2212 N Albina av west
N Lewis av intersects
N Clark av intersects
N Harding av intersects
N Randolph av intersects

23
RAINIER, TERRACE, NW — (King Heights)
408 Drum Will ⓪ △ CA 3-2416

33
RALEIGH, NW—From 1601 NW 12th av west
NW 13th av intersects
1313 SP&S Ry (shops)
1350 Benson Tom Glass Co Inc
△ CA 6-7611
NW 14th av intersects
1400 Auto Wheel Serv Inc mfrs
△ CA 8-9346
NW 15th av intersects
1511 Hunting-Roberts Co (whse)
1524 Liberty Transfer & Storage Co (garage) △ CA 7-5654
NW 16th av intersects
1639 Willamette Valley Transfer Co (garage)
NW 17th av intersects
NW 18th av intersects
1820 Misetich Antoneo Mrs
1830 Morris Opal M Mrs
1836 Vacant
NW 19th av intersects
1935 **Apartments**
1 Jackson Edwin T
2 Gravon Ernest A ⓪ △ CA 7-0065
3 Bean Frank
4 Maycroft Dwight A
1936 **Apartments**
1 Kronlien Donna
2 Thomas Ronald L △ CA 8-9783
3 Vacant
4 Martin Robt S △ C 7-3968
Street continued
1945 McCallen Wm L △ CA 3-5065
1955 **Apartments**
1 Burr Donald T △ CA 2-6847
2 Moore Edith L Mrs ⓪
△ CA 3-6024
3 Denman Hathaway J
4 Simshaw Josephine K Mrs
△ CA 3-6654
1956-66 **Raleigh Court Apartments**
1956 **Apartments**
1 Duerfeldt Gilbert E
△ CA 2-4087
2 Medlin Merrill △ CA 3-7579
3 Sheppard Zelda M Mrs
△ CA 3-9994
4 Thurman Loren E
△ CA 3-5045
1965 **Apartments**
1 Mulligan Albert C ⓪
△ CA 3-2835
2 Kombeitz Margt M
△ CA 7-0183
3 Schumann Neil F △ CA 7-7517
4 Johnson Paul R △ CA 7-7511
1966 **Apartments**
1 Sells James L △ CA 2-3382
2 Holmes Vera Mrs △ CA 2-3789
3 Durrah Lillian L △ CA 2-4888
4 Hartshorn Donald
31
NW 20th av intersects
NW 21st av intersects
2170 Zellerbach Paper Co (whse)
NW 22d av intersects
2219 Tucker-Emmrick Co coffee roasters △ CA 8-5913
2222 Pac Tel & Teleg Co (constn garage)
2258 General Rubber & Sup Co Inc whol mill sups △ CA 8-6565
2265 Kovach Pauline A Mrs ⓪
△ CA 2-4195
2268 Misele Cath Mrs ⓪
2274 Curtiss Creola
2279 Baker Chester C
NW 23d av intersects
2309 Raskop Jennie H Mrs
△ CA 3-1534
2311 Noah David
2313 Berry Edw C
2315 Quig Geo
2319 Eytcheson Adrian B
O'Neill Robt E
2330 Crucible Steel Co of Am specialty steel whse
△ CA 2-1768
2342 Sharp Jos J ⓪ △ CA 8-2096
2355 Oregon-Washington Transport (garage) △ CA 7-2671
Pihl Transfer & Stge (garage)
△ CA 7-2671
NW 24th av intersects
2409 Stringham Loren F ⓪
△ CA 7-3229
2414 Gallien Garage auto reprs
△ GA 8-3751
2417 Brand Wm △ CA 3-7545
2424 Mitchoff Anne Mrs △ CA 3-3271
2425 Gaddy Robt S ⓪ △ CA 2-2236
2434 Carter Leah L Mrs ⓪
△ CA 3-2294
2437 Courtwright Fred J ⓪
△ CA 3-4576
2440 Banzer Robt L ⓪ △ CA 3-7487
2445 Linklater Celia A Mrs ⓪
△ CA 3-1955
2450 Franzoni Frank ⓪ △ CA 2-2674
2455 Loughlin Ella Mrs ⓪
△ CA 8-5471
2456 Hay Joe ⓪ △ CA 3-1696
2462 LaTromboise Mona P Mrs
2465 **Raleigh Apartments**
△ CA 7-9270
A Johnson Alva △ CA 7-9270
100 Losli Robt
101 Vacant
102 Vacant
103 Vacant
104 Vacant
105 Tour Harry
106 Vacant
107 Vacant
200 Thomsen Viola M △ CA 3-6533
201 Schuyler Orval
202 Walker Chas H
203 Vacant
204 Kelly Vada
205 Childs Neil W
206 Duncan Thos △ CA 8-7038
207 Caldwell Kenneth R △ CA 2-5493
Street continued
2470 Price Dorothy Mrs ⓪
△ CA 2-7405
2475 **Apartments**
Berger Richd W △ CA 3-7632
2 Dunnuck Belle Mrs △ CA 2-2763
3 Vacant
4 Vacant
5 DeLashmitt Gale F ⓪
△ CA 7-5210
6 Vacant
Street continued
2480 Dugan Geo R ⓪ △ CA 3-6402
2486 Brandtner Benj A ⓪
△ CA 8-4461
2489 Baker Jas T ⓪ △ CA 7-3973
29
NW 25th av intersects
2503 **Queen Anne Apartments**
101 Johnson Daisy Mrs
△ CA 7-2987
102 Lamm Danl C △ CA 3-5051
103 No return
104 Moore Ida M Mrs △ CA 3-0128
201 Landram Jas P △ CA 7-7505
202 Newton B E
203 Clappe Diann △ CA 3-5448
204 Barkicioglu Hensna
205 Vacant
206 Millin Ruth △ CA 3-9929
301 Ritter Robt P
302 Belz Marie C Mrs
303 Vacant
304 Vacant
305 Vacant
306 Tillitt LeRoy △ CA 7-2868
Street continued
2525 Brownell LaVelle Mrs
△ CA 2-1538
2535 Stone Claudine △ CA 8-0885
Norris Jerome A △ CA 2-6908
2543 Erautt Wm ⓪ △ CA 3-3422
2555 Wilson Thos K △ CA 8-0434
2565 Gregory Chas E △ CA 3-8638
2567 Dorn Russell A △ CA 7-4379
2575 Franks Harold △ CA 3-0020
2577 Ofner Helen E △ CA 7-4874
Irvin Frank M △ CA 7-3149
2585 Decker Leland J ⓪
2587 Brendle Waunita I △ CA 3-4258
NW 26th av intersects
2621 **Jan-Mar Court Apartments**
10 Bartlett S Grace Mrs
△ CA 7-0078
12 Rickson Richd
14 Sullivan James jr △ CA 7-4019
16 Kartus Lena Mrs △ CA 8-2866
18 Starr Virginia
20 Waterman Ervin C △ CA 7-0713
21 Foster Margie Mrs
22 Klee Edna Mrs
23 Greenway Hugh A △ CA 2-6048
24 Myers Anna Mrs
25 Ketrenos John S
26 McQueen James E △ CA 7-1959
27 Elsner Ella △ CA 2-2780
28 Jones Virginia △ CA 7-1735
29 Galland Agnes Mrs △ CA 3-0713
30 Brown Olive E Mrs △ CA 8-3660
31 Stewart Margt Mrs
△ CA 3-0656
32 Gilpin Jas L △ CA 7-3326
33 Clifton J Erling △ CA 7-4117
34 Smith Vivian Mrs
35 Cunningham Robt
36 Lewis Billie
37 Shuell Geo △ CA 8-1477
38 Greer Louise M Mrs
△ CA 2-6978
39 Treit Marlowe
Street continued
2653 Lolich Lucy Mrs
2657 Lolich Frank F △ CA 2-6665
2665 Lolich Steve A ⓪ △ CA 3-6498
2667 Dale Eug I △ CA 7-3324
2673 Johnson John M ⓪ △ CA 8-0002
2675 Gullard Mandel D △ CA 3-6754
2683 Norton Glen J
2687 Barrett Thos F ⓪ △ CA 3-4933
NW 27th av intersects
2703 Masters Frieda E Mrs ⓪
△ CA 7-2379
2712 BeLusko Jos V ⓪ △ CA 3-2241
2715 Johnson Ruth J ⓪ △ CA 7-1658
2724 Pries Harold W △ CA 3-9027
2725 Zingsheim Wm E ⓪ △ CA 7-3854
2726 Buckler Geo H △ CA 7-5231
2727 Thaxter B A △ CA 3-4991
2735 Augur Emilie T Mrs ⓪
△ CA 3-9604
2736 Cohn Chas S △ CA 3-3638
2737 Seaman Betty A Mrs
△ CA 2-4153
2738 Frey Ernest M △ CA 2-5239
2745 Mullen Donald △ CA 3-6556
2746 Groff Wm ⓪ △ CA 7-6258
2747 VanGulder Lois Mrs
△ CA 7-5967
2756 Pappas Gus A ⓪ △ CA 7-3814
2757 Lundeen Martin ⓪ △ CA 7-0247
2764 Desinger Carl ⓪ △ CA 3-2289
2765 Fox Geo P ⓪ △ CA 3-9951
2774 Cohen Isaac I △ CA 2-2227
2775 Vlahos Pete T ⓪ △ CA 3-1473
2785 Evans Lawrence W △ CA 8-1544
2788 Jensen Folmer △ CA 3-2741
NW 28th av intersects
2805 Eastman Ralph W △ CA 3-1390
2808 MacKenzie Lloyd J ⓪
△ CA 8-7025
2815 Lolich John P ⓪ △ CA 3-8903
2825 Murray James P ⓪ △ CA 2-7444
2832 DuVernet Emil E △ CA 8-5056

Portland—800 Woodlark Bldg., CApitol 6-6421
925 Lloyd Center, ATlantic 8-6405
SALEM — EUGENE — MEDFORD — CORVALLIS
HOOD RIVER — COOS BAY — ASTORIA — THE DALLES
SEATTLE, LONGVIEW AND VANCOUVER, WN.
Pacific Coast and Midwest Stock Exchanges
Zilka, Smither & Co., Inc.
INVESTMENT SECURITIES

RALEIGH NW 1955

S. W. Fifth Avenue at Stark . . . AT. 8681 SCHOOL SUPPLIES • SCHOOL FURNITURE

QUIMBY, NW—Contd
2748 Saltzman Harold H △ BE 9301
27
2902 Rittal Robt C ◎ △ BE 0740
2910 Lipman Burton L ◎ △ BE 1074
2930 Nohlgren Jos E ◎ △ BR 6884
2941 James Marshall B ◎ △ BR 5004
2951 Reinhardt Justin N ◎ △ BE 4472
2960 Gault L Rex ◎ △ BE 7001
NE 30th av intersects
3004 Lessing Robt Rev △ BE 8616
3009 Merrifield Harry B ◎ △ BE 7658
3022 Peters Geo D ◎ △ BE 4234
3048 Vacant

BCL
RADCLIFFE COURT, SW—W from SW Radcliffe rd

BCL
RADCLIFFE ROAD, SW—W from SW Riverside dr

S1
RAILROAD, N—From 2212 N Albina av west
N Lewis av intersects
N Clark av intersects
951 Scott-Palitzsch Feed Mills (RR siding ent)
N Harding av intersects
N Randolph av intsects

M2
RAILROAD AV (Milwaukie) — From Harrison southeast to 37th at Washington, 1 east of SPCo tracks
3235 Counsell Jos W ◎ △ EV 1-5581
3245 Pyle Thos H
3315 Ormsby Warren ◎ △ EV 1-1705
3325 Rinehart Jean M Mrs
Oak intersects
3445 Bafico Louis L △ EV 1-5883
3455 Yoder Paul R
Monroe intersects
3630 McFarland L D Co Inc poles
△ EV 1-3353
Washington intersects
37th intersects
3821 Hooper Raymond T △ EV 1-3335

23
RAINIER, TERRACE, NW — (King Heights)
408 Horstman Philip ◎ CSP
△ BE 3382

33
RALEIGH, NW—From 1601 NW 12th av w
NW 13th av intersects
1313 SP&S Ry (shops)
1350 Colorado Fuel & Iron Corp (Pac Coast div) steel
△ AT 7311
NW 14th av intersects
1400 Goodyear Tire & Rubber Co Inc ofc △ BR 1484
NW 15th av intersects
1511 M J B Co (whse)
1524 Liberty Transfer & Storage Co (whse) △ BR 5654
NW 16th av intersects
1630 Western Electrical Constn Co △ BR 3781
NW 17th av intersects
NW 18th av intersects
1820 Lindsey Geo L △ AT 5701
1830 Stephenson Geo M
1836 Topping R W Co screens
△ CA 3983
1836 Pratt Francis J △ CA 3983
NW 19th av intersects
1919 Vacant
1923 Walker Graham △ CA 6827
1935 **Apartments**
1 Jackson Edwin T △ BE 2215
2 Grawon Ernest A ◎ △ BR 0065
3 Inman Arth K
4 Mayeroft Dwight A
1936 **Apartments**
1 Smith Chester G △ BE 5680
2 Maine Donald E
3 Custus M L
4 Fessler Barbara R
1945 McCallen Wm S △ BE 5085
1955 **Apartments**
1 Burr Donald T △ CA 6847
2 Simshaw Josephine K △ BE 6654
3 Denman Hathaway J
4 Moore Edith L Mrs ◎
△ BE 6024
1956-66 **Raleigh Court Apartments**
1 Davis S Edw △ CA 2250
2 Simshaw Josephine K
3 Dunlap Laurence I △ BR 1009
4 Lester May A Mrs △ BE 5272
1965 **Apartments**
1 Mulligan Albert C △ BE 2835
2 Kombeitz Margt △ BR 0183
3 Compton Wilbur D △ BR 3740
4 Tamm Edw S △ BR 4129
1966 **Apartments**
1 Simmons Norman L △ AT 2593
2 Guldseth Clara L Mrs △ BE 0766
3 Jones Norman R △ BE 0166
4 Kaufman Emerson W △ CA 4028
31
NW 20th av intersects
NW 21st av intersects
NW 22d av intersects
2219 Tucker-Emmrich Co coffee roasters △ AT 5913
2240 Alsup Mary A Mrs ◎ △ BR 4852
2249 Coleman Geo W △ BE 8513
2258 Republic Steel Co (Round Chain Div) △ BR 6476
2265 Kovach John ◎ △ CA 4195
2268 Miseje Cath Mrs ◎ △ AT 1481
2274 Curtiss Creola
2279 Dueber Audrey L Mrs
NW 23d av intersects
2309 Raskop Jennie H Mrs △ BE 1534
2311 McGraw Lettie Mrs
2313 Berry Edw C
2315 Jordan Hugh
2319 Broadwell Jas A jr △ BR 7357
Achziger Pete △ CA 7273
2330 Norris Cyril M
2342 Bertleson Virgil C △ BR 1340
Sharp Jos J ◎ △ AT 2096
NW 24th av intersects
2409 Stringham Loren F ◎
△ BR 3229
2414 Gallien Chas L auto repr
△ AT 5751
2417 Williams Harry C ◎ △ EE 6614
2424 Thompkins Margt Mrs ◎
△ BE 3271
2425 Timmer L H ◎ △ BR 0039
2434 Carter Roy J ◎ △ BE 2294
2437 Dempsey Wm E ◎ △ BE 4576
2440 Schmitz Cora H Mrs ◎
△ BR 5050
2445 Linklater Celia A Mrs ◎
△ BE 1955
2450 Zilka John P ◎ △ BE 0426
2455 Loughlin Ella Mrs ◎ △ AT 5471
2456 Martin Blair F ◎ △ BE 1591
2462 Galvin Robt △ EE 8853
2465 **Raleigh Apartments**
A Holden Alex L mgr △ BR 9270
100 Kittrell Inez Mrs △ BE 6640
101 Vinson Isabelle Mrs
102 Pederson Reynold A
103 Bloomberg Sol
104 Heath Harry W
105 Barnes Marie A Mrs △ BE 5736
106 Webster Effie M Mrs
△ BR 9270
107 Gray Herman △ BR 3756
200 Bolton Shirley I △ BE 8536
201 Schwartz John H
202 Luckenbaugh M E
203 Wood Denslow E
204 Ralston Sallie G △ CA 6687
205 Wardrop Donna L
206 Vacant
207 VanDinter Danl
2470 Lang Kenneth J △ EE 9379
2775 **Apartments**
1 Brimhall Bernadine △ BE 3024
Sneary Betty J △ BE 3024
2 Dunnuck Belle Mrs △ CA 2763
3 Farrell Jerome E △ BA 5063
4 Smiley M Jeanne
5 DeLashmit Gale F △ BR 5210
6 Eaum Henretta
2480 Dugan Geo ◎ △ BE 6402
2486 Rittel Wilhelm ◎ △ AT 4937
2489 Horne Wm D ◎ △ AT 6741
29
NW 25th av intersects
2503 **Queen Anne Apartments**
Lamm Sophie Mrs mgr
△ BE 5051
101 Vacant
102 Lamm Danl C △ BE 5051
103 Booze Dwayne △ AT 7837
104 Huntington Carlton R △ CA 7037
201 Landram Jas P △ BR 7505
202 Rosa Beverly Mrs
203 Lois Larry
204 Bierke Beatrice G △ BE 9384
205 Henry Norlene
206 Wetzler Margt C Mrs
△ BE 7655
301 Vacant
302 Belz Marie Mrs
303 Vacant
304 Roberts D Wm △ CA 2705
305 Petrina Margere J △ CA 3054
306 Schroeder Bill C △ BR 2836
2525 Morgan Arth H ◎ △ BE 9993
2535 Evans Wm
Knorr C E ◎ △ BE 3458
2543 Erault Wm ◎ △ BE 3422
2555 Esser Theo E J ◎ △ BE 7847
2565 Jacobs Louis A △ BE 2039
2567 Dorn Russell A △ BR 4379
2575 Lussier Arth A △ BE 0131
2577 Franks Harold △ BE 0020
2585 Mader Herman F △ BE 1429
2587 Dahl Belle L Mrs △ BR 6358
NW 26th av intersects
2621 **Jan-Mar Court Apartments**
Waterman Gladys M Mrs mgr
△ BR 0713
10 Bartlett S Grace Mrs △ BR 0078
12 Nasman Arth S
14 Stecklin Teresa Mrs △ BE 6718
16 Alexander Ronald D
18 Peters Kelley J △ BR 6812
20 Waterman Ervin C △ BR 0713
21 Parman Lloyd G △ CA 2902
22 Royal J F △ BE 8875
23 Elder Madeline L △ CA 6048
24 Bankhead Lois A △ CA 5129
25 Starfas Tommy S △ BR 0768
26 Polain Beverly J △ BE 5431
27 Wells Kenneth W △ BR 6218
28 Kenzell Mike △ CA 2257
29 Tomlin Fred A △ BE 6679
30 Olaflin Jesse W △ CA 6114
31 Gregory Chas E △ BE 8638
32 Maskell May I △ AT 6812
33 Clifton J Earling △ BR 4117
34 Mattoley Vera M Mrs
35 Matteson Stephen H △ EE 2605
36 Vacant
37 Baldock Joan E △ BE 5813
38 Tehaar Frank W △ BE 5092
39 Piland W E △ CA 2048
2633 Lolich Michl ◎
2657 Lolich Steve A ◎ △ BE 6498
2665 Markewitz Martin △ BR 2018
2667 Dale Eug I △ BR 3324
2673 Tehan John E △ BE 6447
2675 Johnson Arth M △ BE 3461
2683 Panter Arth M △ CA 5692
2687 Barrett Thos F ◎ △ EE 4937
NW 27th av intersects
2703 Masters Collin M ◎ △ BR 2379
2712 BeLusko Jos V ◎ △ BE 2241
2715 Johnson Arth J ◎ △ BR 1658
2724 Wax Frohman C △ BE 7016
2725 Zingsheim W E ◎
2726 Ross Howard J ◎ △ BR 5943
2727 Gerstner Edw W △ BR 7253
2735 Augus Emilie T Mrs ◎
△ BE 9604
2736 Friedman Sally Mrs △ BE 3638
2737 Henderson Edw R △ CA 6165
2738 Thiriot F Wayne △ CA 2050
2745 Sharp Hilda L Mrs real est
△ BR 5886
2746 Groff Wm ◎ △ BR 6258
2747 Arndt Raymond △ BR 3000
2756 Pappas Gus A ◎ △ BR 3814
2757 Lundeen Martin ◎ △ BR 0247
2764 Desinger Carl △ BE 2289
2765 Fox Geo P ◎ △ BE 9951
2774 Cohen Isaac ◎ △ CA 2227
2775 Vlahos Tom ◎ △ BE 1473
2785 Smith E Bryon △ EE 8904
2787 Grubb Robt K △ AT 0323
NW 28th av intersects
2805 Carver Chas C ◎ △ BE 3059
2808 MacKenzie Lloyd J ◎ △ AT 7025
2815 Lolich John P ◎ △ BE 8903
2825 Vacant
2832 Psomas Nick C ◎ △ BR 3894
2833 McHenry Richd P ◎ △ BE 2872
2844 VanWyk John H ◎ △ BE 1209
2845 Friedman Herman J ◎
△ BR 6120
2854 Miller Lloyd B ◎ △ BE 1555
2855 Whitelaw John M ◎ △ EE 7516
2864 Vacant
2865 Knutson Lulu M Mrs ◎
△ BE 0783
2873 Clarke Rose G Mrs ◎ △ BE 1446
2874 Nicoll Jas B ◎ △ BE 5411
2884 Giesy Grover C jr ◎
△ BR 7447
2885 Vacant
2895 Simon Fred S ◎ △ BE 8201
27
NW 29th av intersects
2911 Nagel Gordon V ◎ △ BE 7519
2925 Battin Geo E ◎ △ BE 0746
2926 Vacant
2936 Vacant
2944 Hagan Mabel I Mrs ◎ △ EE 4906
2951 Carrell Kenneth R ◎ △ BE 1490
2954 Hillary Arth R ◎ △ BE 3931
2967 Dyer Henry C ◎ △ BE 0204
2972 Nelson Jas P ◎ △ BE 0633
3494 Chairoe Nick ◎ △ BR 1755

163
RALPH ROAD, SW (Council Crest)—From SW Sherwood dr east then south NE of SW Fairmount blvd

183
RALSTON DRIVE, SW—Rt SW Terwilliger and SW Barbur blvd

278
RAMONA, SE—From the river e, intersecting SE Milwaukie av at 5801
1346 Ferris Claude C ◎ △ EA 7356
1414 Compston Jeanette R Mrs ◎
△ EM 9740
1415 Hager Milton E ◎ △ EA 0501
1425 Godbey Beryl △ VE 4875
1432 Knapp Leroy L △ VE 4223
1435 Cobb Jos B ◎ △ EM 3458
Gregory Louisa Mrs
1505 Rose Albert △ EM 0811
1506 Taylor Geo E ◎
1515 Murk Marion G ◎ △ EM 4027
1523 Miles Marlin J △ VE 5963
1524 Goodell Jas E ◎ △ VE 5338
234
SE Milwaukie av intersects
Unopened to SE 39th av
318
SE 40th av intersects
4005 Hall Francis N ◎ △ PR 1-3951
4008 Vacant
4014 Vulgas Gus D ◎ △ PR 1-9323
4015 Barth A Larry △ PR 1-5539
4021 Clarke Clyde L ◎ △ PR 1-4906
SE 41st av intersects
4116 Eagle Fred ◎ △ PR 1-2003
4119 Daniels Doris M Mrs
4120 DeLuca Raymond E ◎
△ PR 4-8909
4127 Almy Louis ◎ △ PR 4-6778
4128 Mooney Gertrude Mrs ◎
△ PR 1-3008
SE 42d av intersects
4205 Terrill Lloyd T ◎ △ PR 4-3511
4206 Ferguson Edith M Mrs ◎
△ PR 1-8373
4216 No return 0
4219 Allshouse Glen N ◎
4220 Swan Robt G ◎ △ PR 4-2623
4230 VanWinkle Lewis C △ PR 1-1159

RAMONA, SE—Contd
SE 43d av intersects
4305 Boylan Bert C ◎ △ PR 1-2153
4306 Cottingham Thos A ◎
△ PR 4-4311
4312 Brunskill Fred G △ PR 4-1176
4319 Foggia Jos ◎ △ PR 4-1176
SE 44th av intersects
4404 Boerma Burton R ◎
△ PR 1-7394
4415 Lutz Wm F ◎ △ PR 4-7026
4416 Smith Clarence R ◎
△ PR 4-5533
4424 Haydon Wm H ◎ △ PR 4-8756
4427 Malmsten Sidney V ◎
△ PR 1-5229
4428 Watson Wm W ◎ △ PR 4-7989
SE 45th av intersects
4507 Christianson Richd W ◎
△ PR 1-3573
4511 Lewis Delmar D ◎ △ PR 1-2370
SE 46th av intersects
SE 47th av intersects
SE 48th av intersects
4803 Reader Robt C ◎ △ PR 4-1600
4805 Sweider Royal I △ PR 1-5292
316
SE 49th av intersects
4911 Anderson Erle jr ◎
△ PR 1-5971
SE 50th av intersects
5008 Murray Jos M ◎ △ PR 1-0702
5013 Slaughter Robt W ◎ △
△ PR 4-6798
5018 Newton Robt L ◎ △ PR 4-2845
5032 Harris Ralph L ◎ △ PR 4-0647
5037 Casciato Michele ◎ △ PR 4-5774
5053 Angelshaug Roy M △ PR 1-4939
SE 51st av intersects
5104 Sahli Geo F ◎ △ PR 4-1765
5112 Olson Ethel L Mrs ◎
△ PR 1-2476
5115 Shimel Donald D ◎ △ PR 1-2763
5124 Riehl Roy A ◎ △ PR 5-3650
SE 52d av intersects
5205 Allesio Peter J ◎ △ PR 5-3903
5218 Bannister Cleo J △ PR 5-3252
5224 Scroggins Dorsey V ◎
△ PR 1-5309
5225 Under construction
5229 Under construction
SE 52d av intersects
5218 Rainey Hadley B △ SU 5677
5306 Fitzgerald Floyd C ◎
△ PR 1-4823
5322 Philip Ruby A Mrs ◎
△ PR 4-8015
5323 Anderson Carl P ◎
△ PR 4-2838
5330 Rossi Anthony A ◎ △ PR 4-0861
SE 54th av intersects
5404 Stahelin Walter E ◎
△ PR 1-8855
5405 Lang Siegried W ◎ △ PR 4-8408
5410 Kirigin Nicholas ◎
△ PR 1-5071
5417 Wildy Wm H ◎ △ PR 4-7462
5422 Pierson Ann Mrs △ PR 4-1639
5503 Orazio Helen C Mrs ◎
△ PR 1-8760
5506 Martin Anna M △ PR 1-1679
5509 Giardina Salvatore ◎
5512 Gray Leonard E ◎ △ PR 1-5381
5515 White D E ◎ △ PR 1-6414
5522 Bennett Irene C Mrs ◎
△ PR 4-8457
5528 Stipanov John G ◎ △ PR 1-4800
5529 Precisio Carlo ◎ △ PR 1-5770
5603 Kraus Matthew J ◎ △ PR 4-6066
5613 Erikson Allen G ◎ △ PR 1-7990
5616 Ellsworth Jas H ◎ △ PR 1-0122
5226 Perrault Wm J ◎ △ PR 5-2403
5635 Faris Clarence I ◎ △ PR 4-4785
5638 Gutknecht Juck A ◎ △ PR 1-418
SE 57th av intersects
5704 LaBarre Warren C ◎
△ PR 4-8836
5707 Webster Richd A ◎ △ PR 4-9968
5722 Bartlett Saml L ◎ △ PR 4-6784
5729 Toothman Jos A ◎ △ PR 1-4473
5732 Quackenbush Richd J ◎
△ PR 4-6178
5741 Barbee Merle E ◎ △ PR 1-7502
5810 Meidell John G ◎
△ PR 1-6773
5815 Smith Claude E ◎ △ PR 4-1253
5816 Conroy Edw J ◎ △ PR 1-5868
5904 blaufus Wm C ◎
△ PR 4-8671
Chapman Robt E ◎ △ PR 1-2261
5905 Blaufus Wm C ◎ △ PR 4-8671
5910 Loftin Wm E ◎ △ PR 4-8651
5915 Borgens Wallace W garbage collin serv △ PR 1-9627
5922 Page Wm S ◎ △ PR 1-8905
312
SE 60th av intersects
6007 Locke Danl M ◎ △ PR 5-3803
6015 Longvenis John J ◎
△ PR 4-6512
6022 Hafner Chas F ◎ △ PR 4-1748
6030 Vacant
6035 Lord Saml N ◎ △ PR 1-9367
6036 Clark Wm A ◎ △ PR 4-0789
6042 DeBarw Emil C ◎ △ PR 4-4500
6101 Lorenz Carl H ◎ △ PR 4-6175
6106 Vacant
6018 Smith Richd N
6109 Schneider Paul O △ PR 4-3034
6118 Field Frena Mrs ◎ △ PR 4-1531
6129 Whitehead Dale T ◎
△ PR 1-4941
6132 Price Ralph E ◎
6142 Stephan Ernest O ◎ △ PR 1-0968

PACIFIC BUILDING MATERIALS COMPANY

12TH AVE NW 1950

Best Car • Best Deal • Best Service
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12TH AV, NE—Contd
2727 Hunsberger J W
ΔStone H B Mrs ©
2736ΔBrack H G
2737ΔBates H M ©
2746ΔCanon J R
2747ΔFuller W R ©
2806ΔSandblast L B ©
2809ΔCallins C H
ΔSpence W H
2816ΔDunning J J ©
2817ΔDavis V B ©
2822ΔChristensen Maurice ©
2823ΔGrischaw G T ©
2832ΔBlumenthal Reuben ©
2833ΔButt Edw ©
2846 Brandt Alex ©
ΔWeitzel Edw
2847ΔGill F B ©
NE Stanton intersects
2911ΔLewis R W ©
2912 Weir W E
2923ΔDavidson Eliz ©
2928ΔFeinberg S J ©
2933ΔRoberts E S ©
2936ΔMcCurdy S B ©
2943ΔRebstock J G ©
2946ΔNewquist C E ©
3002 Price G W ©
3007ΔCornell F R ©
3016ΔCampf Sam ©
3017ΔHesla Jack ©
3026ΔBline N L ©
3027ΔMuelhaupt Theofil
3033ΔDuncan Aaron ©
3036 Veltman Hyman ©
3042ΔGlanz Manuel ©
NE Siskiyou intersects
3103ΔMcMaster Estelle Mrs ©
3106ΔFinster L E ©
ΔSafe Vault Serv Co
3116ΔUhlman Carl ©
3117ΔKuzmanich Vincent ©
3121ΔTurner G C ©
3122ΔNielsen N L ©
3132 Olds Louis ©
3133ΔHeinz P J ©
3143ΔGarmon W C ©
3146ΔSwanson W L
3203ΔPlatt Morris ©
3206ΔMacKenzie S W
3216ΔWeinstein J J
3217ΔMills Harry ©
3222ΔArik Mary
3223ΔThomas C W ©
3232ΔOstenson R A Mrs ©
3233ΔSchmeer H E ©
3242ΔSmith G M Mrs ©
3243ΔLaws Velma Mrs ©
NE Klickitat intersects
3303ΔGill Alex ©
3306ΔGann D S ©
3311ΔErickson Emma Mrs ©
3312ΔRouff L E ©
3323ΔJancan J M ©
3326ΔBrown G J ©
3331ΔSnyder E J ©
3332ΔDolan M E Mrs ©
3342ΔEng A W ©
3343ΔMcMenamin R W ©
3406ΔKehm David
3407ΔBonner S D ©
3416ΔHauke H M
3417ΔVan Dolah Fred ©
3426ΔAusted A T ©
3427ΔHarding Alfd ©
NE Fremont intersects 189
3507ΔEinarson A F Mrs ©
3513 Vacant
3526ΔSpieger Christina Mrs ©
3535ΔWillman H C
3536 Schippelhut Emma Mrs ©
3603 Walker M B Mrs
3606ΔWalker Eliz Mrs ©
3611ΔMelcher Adam
3616ΔEilts F G ©
3621ΔMcNeece Jas E
3622ΔRosenberry C L ©
NE Beech intersects
3702ΔWeber C S © refuse colr
3716ΔCook A E Mrs
3717 Weber Lena Mrs ©
3726 Knippel Geo ©
3727 Klaus Hermoine Mrs
ΔLebsack F W
3736ΔDick Eliz ©
3737ΔBorgardt G S ©
3807 Arnold S W
ΔCattnach R L ©
ΔInterstate Adv Serv
3813ΔNeedy F L
3816ΔKost Walter ©
3823ΔHudson King ©
3828ΔBernhardt Kath Mrs ©
NE Failing intersects
3912 Coldwell R R
3916ΔScheideman John ©
3926ΔScheideman Danl ©
3927ΔFisher M V Mrs ©
ΔFisher Nursing Home
3933ΔHardy H H ©
3936ΔStibbe F C ©
3946ΔMiller Fredk ©
3947ΔFerguson J G ©
3953ΔClayter E B ©
3956ΔAlexander M M Mrs ©
3967ΔNelson A M ©
3968ΔHohnstein Henry ©
3973ΔAncheta P D ©
3976ΔSchwartz Henry ©
NE Shaver intersects
4007ΔSchmidt Martin ©
4015ΔStevens J R ©
4016 Dienes L L Mrs ©
4026ΔDisarro Daisy ©
4037 Halloran A C
4046ΔLebsack A M Mrs ©
4047ΔEgerer H F ©
4057 Underwood Effie Mrs
4058ΔPhillips Day ©
4067ΔMorang A S ©
4073ΔHuck John ©
NE Mason intersects
4115ΔStephenson W A coml photog
4125 Warfel W E ©
4135 Willhite Cecil
4136 Okelberry G A
4206ΔChristian C J ©
4224ΔSchimmel H H
4227 Fast A J Rev
4234ΔMorgan E V ©
NE Skidmore intersects
4302 Findlay Ronald
4306 Laughlin J M
4315ΔTroen Betty ©
4323ΔBishop A E ©
4326ΔMyers F J ©
4406ΔMcLachlan Frances Mrs ©
4407ΔHaley C L ©
Haley Kathleen M nurse
4415 Dethlefs Emma W ©
4420ΔAil R H
ΔBates Rug & Uphol Clnrs
ΔBauer R C
ΔChristian J C
ΔMack H L ©
NE Prescott intersects 199
4514ΔCarrington C P
4515ΔO'Donnell C F ©
4524ΔRasmussen W C ©
4534ΔFeuerstein H J ©
4537ΔBrittain V M ©
4542ΔBorigo Gertrude D ©
NE Going intersects
4621ΔTeel Howard & plywood dlr
4704 Sheridan J F ©
4715 Morasch C W ©
4716ΔDietrich John ©
4725 Conner J F ©
NE Wygant intersects
4801ΔJohnson Minnie Mrs ©
4808ΔWick E R ©
4815ΔMartenson Nels ©
4822ΔRalston M J Mrs ©
4823 Austin A R Mrs ©
4831ΔChapman N C Mrs ©
4832ΔMarsh R G ©
4840 Imhoff C C ©
4848ΔNaylor H S ©
4849ΔUsinger H M Mrs ©
4903 McLaughlin Tillie Mrs ©
4904ΔAday D W ©
4911ΔCarter F R Mrs ©
4917ΔHartung J A
4921ΔGibson T M
4926ΔPerkins V L Mrs
4931ΔUlven M F
4937ΔDouglas R E ©
NE Alberta intersects
5020ΔLitsas J N ©
5026ΔFoss G F ©
5027ΔFritzler R J ©
5035ΔLoos J L ©
5043ΔMeyers Benj ©
NE Webster intersects Unopened to NE Emerson
5302 Hunt C I
5312ΔBrown M J ©
5323ΔMcMahon A B ©
5324ΔBeals J H ©
5403ΔMartenson H A ©
5408ΔYuckert Conrad ©
5420ΔNelson E F ©
5430ΔSmith G A
NE Killingsworth intersects 201
5514ΔGuiso Peter ©
ΔMayer T W
5524ΔWiden R F ©
5525ΔBetchtel R W ©
ΔFeilen J T
NE Church intersects
5605ΔWebster A E ©
5615ΔBosworth C H ©
5624ΔUsselman A F ©
5655ΔAnderson J T ©
5634ΔSacarisen B J ©
5635ΔKurtz W W ©
5702ΔL'Esperance A E Mrs ©
5707ΔLindow A E ©
5715ΔMilius W E ©
5723ΔSaelens M A ©
5724ΔYowell H T ©
5733ΔTanner R E ©
5734ΔAnderson H E ©
NE Jarrett intersects
5815ΔCarlson V A ©
5823ΔMorris H W ©
5824ΔResler D E ©
5832ΔAdams Pauline Mrs ©
5835ΔHolmes I C ©
5844 Vacant
5901ΔWilliamson Frank ©
5910ΔKoenig Walter © contr
5920ΔMcLain C S ©
5925ΔBevans A F ©
5928ΔWalker C V ©
5931ΔGaley W F
NE Ainsworth intersects
6025ΔSimonds H E
6026ΔPenna Enrico ©
6034ΔCarter E S ©
6101ΔKlein J W ©
6102ΔSanzenbacher W M ©
6117ΔSchoenheing N H ©
6126ΔSchafding Ella Mrs ©
6127ΔHowell C W ©
6204ΔHanggi R A ©
6207 Vacant
6214ΔBrandt Benj ©
6217 Farmer M E Mrs ©
6224ΔGilchrist J W ©
6225ΔMessinger W O ©
6233ΔTubbs J H ©
6234ΔWorkman A O ©
NE Holman intersects Unopened to NE Buffalo 208
NE Buffalo intersects
7232ΔMindolivich J Y ©
7244ΔFeely D A Mrs ©
7253 Vacant
NE Holland intersects 80
12TH AV, NW—From 1201 W Burnside n
NW Couch intersects
101 Blitz-Weinhard Co (whse)
138 Blitz Weinhard Co (garage)
NW Davis intersects
NW Everett intersects
305ΔBeaver State Distr Co whol beer and wine
ΔCommerce Coffee Co Inc
312ΔTaylor C F
316ΔJobbers Serv Co (whse)
ΔRice Bros mfrs agts
ΔRollandet P D mfrs agt
ΔSnow Sales mfrs agts
339ΔHall John L Co mfrs agt
NW Flanders intersects 94
408ΔAutomotive Whs Inc whol auto parts
425 Vacant
NW Glisan intersects
512 Vacant
514 Vacant
516ΔLoomis Printing Co
520ΔClarke Leslie F & Co printers
522-28ΔHood Sales Co (plant)
815ΔWestinghouse Elec Supply Co
NW Hoyt intersects
NW Irving intersects
NW Johnson intersects
NW Kearney intersects
905ΔConnelly F B Co whol hsehold furngs
935ΔAlsop Fred E Co mfrs agt
ΔAm Chain & Cable Co Inc
ΔCallison P G Co mfrs agts
ΔColeman & Co mfrs agts
ΔDetrick M H Co htg apparatus
ΔEngineer Co htg apparatus
ΔHampton W F mfrs agt
ΔHills Bros Coffee Inc
ΔNorthwest Steel Co
ΔReynolds Mtls Co aluminum mfrs
ΔSterwin Chemical Co
NW Lovejoy intersects
NW Marshall intersects
NW Northrup intersects 114
1233 **Wilhelm Rudie Warehouse Building**
Rooms:
102ΔWilhelm Truck Leasing Co
201ΔWilhelm Rudie Warehouse Co Inc (stge)
205ΔLindsay D E Co mfrs agts
207 Vacant
208ΔStone Norris B mfrs agts
209ΔJones Earl H & Co mfrs agt
210ΔLine Material Co whol elec equip
212ΔGarland Affolter Engineering Corp mfrs agts
ΔWinter Products Co mfrs agts
213ΔLorillard P Co whol cigars
214ΔBach Pete Elic Co mfrs agt
220ΔCorn Products Sales Co
Street continued
NW Overton intersects
1301 Wilhelm Rudie Warehouse Co (whse)
1435 Vacant
12TH AV, SE—From 1201 E Burnside s
SE Ankeny intersects
101ΔFoote J H ©
113 Kromke Mary
114ΔReteldorf O J
119 Cordell D R Mrs
121ΔStilwell Geo
127ΔBathun L H ©
128ΔShepard H L ©
ΔVan Deinse Paulus
129ΔCactus Grill
134ΔKoontz Sophia Mrs ©
135ΔEdwards M D ©
SE Ash intersects
201ΔGottsacker J E gro
211 Frettim G W Mrs
ΔMeyer J W
ΔPeterson Gust
212 Vacant
213ΔCaswell Coffee Co
218ΔTatro G L
229 Jackson M E Mrs
SE Pine intersects
sw cor PineΔSt Francis of Catholic Ch Assisi
303ΔBramwell Constr Co
306ΔPortland Whol Nursery Co
SE Oak intersects
400 Vacant
410 Gill G L
416ΔCowls J H ©
417ΔGallegos J H
418ΔRowley D E
436ΔSecurity Signs Inc mfrs
SE Stark intersects 7
503Δ**Todd Apartments**
Carlson Chas
Correa Stella
ΔGallagher Jos
Hettum Chas
Kiter Sarah Mrs
Kost M O
Laird Earl
Landrum Helen
McKellar R F
ΔOver J D
ΔRollins Madge E
Rusch H G
Schelm Edna
513ΔHurley J W paper hngr
ΔLerma Juan
ΔMartinez J V ©
525 Abbott L A ©
535ΔLeadley D D ©
ΔSchmitt M M
SE Washington intersects
603ΔStoppelcamp M A Mrs
611ΔGalash J N
617 Gwynn Anna M ©
623ΔCollins L H
635ΔCantrell Eleanor Mrs
637ΔHamlin O C
SE Alder intersects
704 **Mary Stuart Apartments**
Bergin Teresa Mrs
ΔHaigh Helen L
McClish Frank
ΔTallman H A
Tobin W E
707ΔO'Neil E G Mrs © music tchr
717 Vacant
SE Morrison intersects 19
804 Gintz Walter gas sta
807 Foth Alex
ΔRedman E L ©
821ΔMorris J E
823ΔHiller L E Mrs
830ΔSt David's Episcopal Ch
SE Belmont intersects
914ΔStamps J M ©
924ΔChastain John
932 Cacicia C C
Chin H K
Johnstone Marge Mrs
Osborn C R
ΔPalmer W F
ΔTaggesell Herbt
943ΔNelson A M
SE Yamhill intersects
1007 Thompson Virginia A © art goods
1015ΔMougey A B ©
1016ΔQuinn F M Mrs ©
1024ΔChung Tom
ΔJung J H
ΔTom J M
ΔWoo Suey S
1025 Millerke Alta Mrs
Politeo Steve
Wounderluch S A
1028 Nesmith B M Mrs gro
1032 Nicholls C E
1035 **Mission Rose Apartments**
ΔAllen Cath M
ΔBarnes Betty L
ΔBertelson Anna M
ΔBoenden Ardell L
ΔCereglino W L
Cola Rose
ΔCrouch Arlene M ©
ΔFreeman W L
Harrington R J
ΔJohnson Viola D

PETTYGROVE NW 1950

S. W. Fifth Avenue at Stark . . . AT. 8681 RADIOS • OFFICE FURNITURE & SUPPLIES

PENINSULAR AV, N—Contd
7714 Christilan D L ©
7715 Jacobson Bernice Mrs ©
7725 Fraser H A ©
N Terry intersects
7806 Kaufmann L M ©
7814 Faber I E ©
7815 Bernhardt Henry ©
7824 Hoffman M F
7825 Mason C A ©
7832 Oling C H ©
7833 Funk Karolena © convalescent home
N Winchell intersects
7903 Senner Louis ©
7904 Green P J ©
7914 Kayser M E Mrs ©
7915 Hilton L D ©
7922 Trythall L J ©
7925 Dawson C F ©
7936 Taber R J ©
7937 Vacant
N Watts intersects
N Kilpatrick intersects
8004 Wolf Henry ©
8005 Skinner P L ©
8015 Wolfe H H ©
8105 Haverson E F ©
8114 Fleischman H L ©
8115 Bean A H ©
8204 **Crest Apartments**
Gaeth J W
Getchell Eva Mrs
Haley Mary Mrs
Harris Maud Mrs
Holman B E Mrs mgr
Holman E L
Joslin M C
Milliron R B
Silvers B V
Warneke Grant
Wood Wayne
8205 Clancy C M ©
8213 Wilson C A ©
8221 Grubbe A M Rev ©
8221 Peninsular Av Full Gospel Ch
8234 Shasky J G ©
N Halleck intersects
8265 McCarter F H ©
8265 Kanestrom John ©
8275 Jeppeson Keith ©
N Arlington pl intersects
8330 Thompson G G Mrs
8333 Taylor D E
N Willis blvd intersects
240
8423 Ashfield W H
8424 Koch Lottie Mrs ©
8434 Dugwyler L A ©
N Argyle ends
8501 Fila A F ©
8511 Willoughley H R ©
8524 Asa C T ©
8537 Krein Henry
8538 Alton F R ©
Alton's Gro
N Hunt intersects
8734 Rand H W ©
8738 Gert E B ©
8744 Anderson W M ©
8745 Tooley E H
8750 Peterson A N ©
8756 Nearing S A ©
8762 Swaggert R R ©
8767 Galaway J L ©
8768 Nyseth Maynard ©
8817 Zeller A A ©
8833 Sells Clarence
N Houghton intersects
8909 Johnston D L ©
9025 Pitchford L E ©
9039 Widing G A ©
9048 Nelson M G
N Trenton intersects
N Columbia blvd intersects
9210 Flameout Paint Products Co
Lyon Constr Co
9217 Pacific Stoneware Co pottery mfrs
N Newark intersects
9316 Cleveland L M Mrs
9316½ Cameron Aubrey
9317 Nelson N S ©
164½
PENNOYER, SW — From 3601 SW Moody av w
SW Hood av intersects
0426 Houston Irving
0415 Vacant
SW Kelly av intersects
SW Corbett av intersects
SW Front av intersects
11 Surino Anton ©
19 Whitely Bona M ©
23 Candella Concetta Mrs ©
SW 1st av intersects
174½
PERIANDER, SW (Portland Heights)
SW Homer intersects
2814 Leonard H F ©
2833 Whitlock J E ©
2844 Hunt C O Mrs © ins
2845 Listoe A E
2906 Osmund Stella ©
2922 Turnbull C A ©
2926 Emery L E ©
2930 Wright F D ©
3022 Byrne R E
3033 Dickinson D H ©
3040 Pollard C L ©
3120 Irwin P R ©
SW Upper dr intersects

41
PERSHING, SE — From 3301 SE Milwaukie av e
1145 Benson J C
1150 Diture Guy ©
1158 Laversa Minnie Mrs ©
1170 Schneider B W
1176 Giannini Batiste © Martin Jos
1204 St Louis B A
1216 Rush F L ©
1225 Moleshead Nettie ©
1235 Burch E M ©
SE 13th av intersects
SE 14th av intersects
1431 Galvin M P jr ©
1437 Eslinger F W Mrs ©
1441 Gaben Wm ©
SE 15th av intersects
1516 Hemrich Charlotte Mrs ©
1525 Butler C S ©
1531 Wharton J E ©
1537 Jones H M ©
1543 Dunann R W ©
SE 16th av intersects
SE 17th av intersects
SP tracks intersect
1835 Vacant
1836 Tooze Ruth Mrs ©
1901 Wakefield W L ©
1904 Cochran Nellie B ©
1914 Rogers J H ©
1915 Henderson Wm ©
1925 Scoggins S W ©
SE 20th av intersects
174
PETER McQUADE DRIVE, SW (Seventh St Add)
114
PETTYGROVE, NW — From 1401 NW 12th av w
ft Crown Mills (mills)
1239 Liberty Fuel & Ice Co (yd)
NW 13th av intersects
NW 14th av intersects
NW 15th av intersects
1507 Closset & Devers whol coffee
Ben-Hur Products Co
NW 16th av intersects
116
1624 Gerde L J
1630 Kostoff Louis
1632 Baker S L Mrs ©
1638 Smith E E Mrs
NW 17th av intersects
1722 Vacant
1725 States Steamship Co (gear locker)
1727 Portland Stevedoring Co (gear locker)
NW 18th av intersects
1801 Hoffman L H (whse)
1820 Blair Louella Mrs ©
1826 West L R
NW 19th av intersects
1923 McAllister E P Mrs ©
1926 Brown T M ©
1927 Flabetich Jack ©
1932 Stauss Dora
1935 Graham C E
1938 Miles W A
1940 Zwicker Arth ©
1942 **May Apartments**
Bales Ethel Mrs
Brown Irene Mrs
Hagan G C
Hinderman Dorothy
Kaufman Roland
May H P ©
Morrow Wm R
Newfield J C
Ogle Shirley
Peterson Frank
1948 Sedore L E Mrs
1955 Weir H E
1956 Vacant
1958 Williams E A ©
1959 Hammack B H ©
1963 Teter Florence Mrs ©
1968 Winterberg H W
1973 Ballenger B L
1979 Green Alex
1987 Johnson W A
NW 20th av intersects
120
2043-47 Sanford Bert Inc trucking
2044 Acme Steel Co
2056 King Quality Products whol auto parts
McQuay-Norris Mfg Co whol auto parts
NW 21st av intersects
2145 Crooks P L & Co contrs equip
NW 22d av intersects
2221 Brown H T ©
2224 Bauer Jos
2231 Russell K L ©
2234 Reiter Frank
2236 Miller H E
2241 Van Ackere A J ©
2246 Hendryx W J ©
2253 Baker H M jr
Moe D L
2256 Hyronimus B J ©
2267 Allen G T ©
2268 Fowler C W ©
2274 Clifford Rose Mrs ©
2287 Bergman J A ©
NW 23d av intersects
112

2329 Jorgensen Elsa M ©
2331 Stocks F J Mrs ©
2336 **Roxey Court Apartments**
Bason W C
Brightman L F
Cotton F R
McKibben R G
Roper C J
Roy W D
Shenker M S
Simmons C E
Stuckrath F H
Weiner Jacob
Welter M F
Wright R G
2343 Hyronimus J A ©
2347 Adcock C E ©
2350 Savage C U Mrs
2352 Benson Alice S
Johnson Audrey V
2361 **Rio Rita Apartments**
Archer R E
Carpenter Gordon
Davis H A
Gillilan Jas
Jones K G
Kellett R P
Lennon M M Mrs
McBride Agnes
McGowan J L
Moore J V
Morris J H
Porter P B
Reierson Marguerite C
Reynolds Doris
Wyant Clyde
Wyckoff R S
2364 Angell E L
Lafky L Karen
O'Neel J R
Paulsen A C
2373 Gundlach E A ©
NW 24th av intersects
2421 Cochran A M Mrs © furn rms
2434 Bickham N O
2440 Christie Jeffrey ©
2441 Graves Kay Mrs © furn rms
2473 Rolland T C © furn rms
2485 Uglesich Peter ©
NW 25th av intersects
2524 Pallay L L ©
2534 Bronner F H ©
2556 Ehlen W H © landscape gdnr
2564 McGee C W ©
2572 Rich J J ©
2584 Mapes H G ©
NW 26th av intersects
126
2610 Heldfond H S ©
2624 Cress W H ©
2636 Shepherd Mary Mrs
2646 Peterson L E ©
2656 Fought J M ©
2666 Hurwitt Max ©
2680 Stern Albert ©
2690 Greenberg S L ©
2710 Hilton H H ©
2720 Worrell Winifred Mrs ©
2730 Demas E C ©
245
PHILADELPHIA AV, N — From N Bradford n, bet N Pittsburgh and N Alta avs
N Decatur intersects
6804 McGuire T J ©
6828 Williams J C ©
N Willamette blvd intersects
N Edison intersects
6905 Krueger C A
6915 Roland N J
6917 Kasselbaum Martin
6925 Payton Reuben ©
6925 Sellers H R ©
7016 Irwin Walter
Johnson Kenneth W
Parmenter C J ©
7024 Cook E E
N Syracuse intersects
246
7214 Bureau of Police (dept of public safety)
7214 City Fire Eng Co No 32
7227 St Johns Lbr Yd
N Ivanhoe intersects
7304 Vacant
7306 Tower E G Mrs jwlr
7310 Hughes Ice Cream Store
7311-17 Young China Cafe
7312 **Masonic Temple**
Doric Lodge No 132 AF&AM
Minerva Bethel No 4 IOJD
Minerva Chapter No 105 OES
7316 Shannon Auto Sup Co
7325 Vacant
7334 St Johns Jwlrs
7336 **Peninsula Bank Building**
Rooms:
3-4 Esson A M lawyer
8 Stender G M dentist
Brown Ethel Mrs
10-13 Palmer C H
Apartments
Carlson A E Mrs
Ingham Floyd
Nemgar P F
Ryan G E
Sankey Lilly
Steuben J M
Wilson G M

7340 US Natl Bank (Peninsula Br)
248
PIER PARK PLACE, N — From 8435 N Fessenden av w
N St Louis av intersects
9109 Robbins O J ©
N Fox ends
9164 Dixon D W
N Olympia ends
9217 Henderson H S ©
9222 Meloy G E ©
N Trumbull av ends
N Hartman ends
9328 McMahan R A ©
9336 Porter C M ©
8345 Long G B ©
9346 Green J W ©
N Swenson ends
9510 Thoreson G A ©
9515 Oswald H J ©
9523 Hillard C A
9535 Boice Dorothy Mrs
N Bristol av ends
9601 Chaffin H A ©
9621 Stark W W ©
9635 Cox R G ©
Rantala J C
9651 Carlson L V V
end of Pier Park
244
PIERCE AV, N — From N Crawford n 1 w of N Polk av
ft of Port of Portland Dry Docks & Shops
N Edison intersects
N Willamette blvd intersects
6905 Kee W A ©
Warren C E ©
7030 Schafe J W ©
7031 Simpson J W ©
7039 White S A Mrs ©
7047 Peterson R J ©
7049 Symons J F ©
N Sycamore intersects
1
PINE, SE — From the river e, 5 n SE Morrison
SE 3d av intersects
309 Pac Cooperative Poultry Produce (feed dept) ship dept)
310 Pac Cooperative Poultry Products (feed dept)
SE Union av intersects
407 Miller Paint Co (whse)
SE Grand av intersects
520 Lombard Tire Co reprs
523 Yoshihara J C
527 Sanders Gilbert
SE 6th av intersects
3
619 McClure L E ©
627 Nunn L R Mrs
628 Seliner A J ©
632 Hartley Mamie C
634 Bennett J J ©
637 Jarecki Thos
SE 7th av intersects
724 Habis John ©
SE 8th av intersects
805 Vacant
815 DeWan Dennis
SE 9th av intersects
SE Sandy blvd intersects
925 Schreiner Nick
926 Bicknell L L
927 Ewert N M
936 Ross Earl
939 White B W
SE 10th av intersects
1004 Stadler M M
Thomas J J
1010 Karamanos Basil
Persons M B Mrs
1016 Price R L
1020 Dave's Automotive Serv reprs
1025 Home Serv Co
Troy Lndy Co
SE 11th av intersects
1105 Eaton B C ©
1117 Wilhelm Arth
1125 Bellamy W E ©
1131 Schmaltz Ralph
1137 Caton W R ©
SE 12th av intersects
5
1222 George Gus ©
1225 Thomas W A ©
1238 Kindberg Saml ©
SE 13th av intersects
1303 Gunderson H D ©
1304 Longstreth F E
1306 Haickel H D Mrs
1309 Perry W O
1310 Bradford Walter
1312 Casbeer B M
1316 Gilham L F pntr
1316 McIntyre H A
1317 Seaman V L
1318 McLaughlin K E
1324 Lathrop C E
1326 Lawrence W T
1327 Chafer Donald
Hawkins C E
1336 Richards Helen Mrs ©
SE 14th av intersects
1401 Chalenor Helen Mrs
1403 Doherty M J ©
1404 Groesbeck C E ©
1405 Hugg Theresa Mrs Pullen C A

RALEIGH NW 1950

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PORTLAND CHAMBER OF COMMERCE

PRESCOTT, NE—Contd
5136 Reese Nettie Mrs ©
5250 Horvel J G
NE 54th av intersects
NE 56th av intersects
NE 57th av intersects
NE Cully blvd intersects
205
NE 62d av intersects
6205 Eat with Mary Restr
6215 Bloom O H ©
6225 Williams C E Mrs ©
6227 Ballard L J
6305 Balme E G Mrs
6319 Dragos Mike
6335 Usher G L ©
6405 Stahl S M Mrs
6415 Skinner G C © real est
6439 Wood W E ©
6511 Eyler W L ©
6525 Bauman J H ©
6535 Delaney E W
6603 Dixon J P ©
6615 Given A P
6621 McClarkin J L ©
6627 Vacant
6631 Marberg M S Mrs ©
6700 Scott Harvey School
6709 Langen C C ©
6805 Ogan M E ©
6825 Huelsbschwerlen M E Mrs ©
Johnson E E
6828 Jensen Marinus ©
6841 Stoll E H ©
6912 Baer Clarence ©
6925 Patton Harvey ©
7005 Wayside Antiques & Dolls
Wayside Beauty Shop
7019 Thompson C N ©
7024 McKee J S ©
7037 Borcherding R P ©
7101 Wood H C ©
7131 Powell & Son contrs
7157 Vashell P W ©
7215 Lewis Quality Meats
Munger's Grocery
Munger E M
7217 Vacant
7225 Schilling John © contr
7239 Eastman G E ©
7245 Hair E M
Miles J F
Topping J S
7303 Mills K N
Newell J L
Pearson Earl
Ruttinger E C Mrs ©
7325 Mohm T E ©
7335 Wimmer W R ©
7405 Hultquist O H ©
7408 Young R R ©
7416 Self K W ©
7505 Jacobs D G ©
7515 Tipton J R ©
7535 Browning H S
7607 Hausch Katie Mrs ©
7625 Schmeer Emanuel
7630 Ward R N ©
7717 Carrick A H ©
7811 Sells G B ©
7817 Vander Voort W A barber
7826 Skille Barney ©
7836 Frost N A ©
Frost Pralee M nurse
7837 Hewitt H H ©
7907 Dawson W L ©
7910 Moore Chas ©
7923 Halgedahl G R ©
7930 Vacant
7937 Tebo L S ©
8003 McLellan M S Mrs ©
8035 Hackett E J ©
8215 Isom H B ©
NE 82d av intersects
168
PRIMROSE, SW (Collins View)
174
PRINCE BLVD, SW (7th Street Terraces)
126
PRINCESS DRIVE, NW (Regent Heights)
235
PRINCETON, N—From 7025 N Olin av w
4749 Clemetson Theo ©
4754 Cupples J P Mrs ©
4760 Hall C E ©
4763 Nelsen Irving ©
4768 Marchent E L
4771 Stitzel F C ©
4780 Sarkela J A
N Fiske av intersects
4812 Krestensen Walter
4821 Woods F H ©
4908 Colfax M P Mrs ©
4909 Ackley E L ©
4925 Cooper S O ©
N Haven av intersects
5007 Michel R E ©
5017 Van Ausdeln B C ©
5018 Morgan E E ©
5027 Gutherless G G ©
5028 Cunning A L ©
5037 Cook F W ©
5038 Goodwin V A ©
5119 Petrik V J ©
N Hodge av intersects
5200 Carlson C O L ©
5216 Benton T A ©
5217 Gilkey C E jr
5219 Schaecher J M
5220 Beemer B E ©
5221 Wyant T R
5224 Shelley C A ©
5225 Moore H Y
5227 Bell J E
5230 Puupera Hilbert ©
5231 Blesener P J
5238 Ohm H W ©
N Stanford av intersects
5254 Bateman L W ©
5255 Bolen O N ©
5260 Anhoury F G ©
5267 Colglazier W O ©
5268 Banfield C E ©
5272 West M E ©
5273 Wallace A E Mrs ©
N Portsmouth av intersects
236
5329 Patrick S C ©
5332 Clark J W ©
5402 McElvain G W ©
5407 Minor G W ©
5410 Barteaux E O
Shaw Edwin
N Van Houten av intersects
5521 Vacant
5525 Robinson G H
N Monteith av intersects
5722 Sevigny J A ©
5800 Masten R V ©
5801 Thomas J D C ©
5808 Gilham H C ©
5811 Walker D G
5815 Welman R B ©
5816 Vick E E ©
5830 Hornbarger C H ©
6005 Fleischman K D ©
6105 Toyooka Jas
6113 Hoffman R L
6117 Kenney H W
N McKenna av intersects
6203 Powell H A Mrs
6209 Mohr Jacob
6216 Wright A W ©
6217 Becker E H Mrs
6219 Sime L D
6221 Donlon L O Mrs
N Wall av intersects
6303 Botteron H R
6311 Maney P H
6313 Eykelbosch Jack
6321 Doyle M J
6325 Bergren R A
6326 Heath L B ©
6333 Earnest F L
6335 Benson B W
6341 Nelson Geo
N Westanna av intersects
6426 Princeton Apartments
Barker F E ©
Coons Leon
Estes Frank
Greene Geo
Hopfinger Evelyn
Karris Geo
Kolding Hans
Whidden Belinda Mrs
Yard Merrill
6427 Zirkle Saml ©
6444 Jones W E ©
N Newell av intersects
6500 Lindey N T ©
6519 Holm Ralph ©
N Macrum av intersects
6615 Bush E C
6616 Proebsting C L ©
6626 Rose E A ©
6627 Coury J F ©
6638 Walker O L
6644 Morrill W W ©
6651 Fankhauser F A ©
6652 Smith T W ©
6703 Ross W E ©
6727 Hendricks R T ©
6728 Ekhoff F E ©
6746 Newman R E ©
N Gilbert av intersects
N Carey blvd intersects
244
6800 Van Derven Wm
Woodward F P
6810 Moore D R ©
N Ida av intersects
6905 Nielsen E A pntr
6917 Wright Roy ©
6918 Atchison J C ©
6928 Smethers E E
6929 Johnson A E ©
7004 Schafer Adam ©
7012 Roley G L Mrs ©
Trutchey Wallace
7013 Wood L E ©
7027 Dahlen L E ©
N Alma av intersects
7104 Kaady S G ©
7112 Bethell J L ©
7125 Berger Fred
7126 Mercer W H ©
7134 Brown E F ©
7139 Davison C O
7207 Nixon I L Mrs ©
7214 Wolfe G J
7235 Letson M R ©
N Burr av intersects
7305 Muck K L ©
7306 Falkner W E ©
7315 Bowen C R
7327 Nolan W A ©
7334 Atchison C H
7343 Hatley G H ©
7400 Vacant
7410 Whelan E J ©
7411 Kindred B A ©
7420 Fronsman B B ©
7421 Stoneburg J L
7432 Hepner C I ©
N Buchanan av intersects
Unopened to N Polk av
7724 Anonby R M ©
7727 Martinson M E ©
7735 Hoadley C C ©
7736 Holmes C H ©
N Tyler av intersects
7825 Evans Jos
7826 Pauly Grace H
7910 Ralls A R Mrs ©
7913 McFee L T ©
7920 Vacant
N Mohawk av intersects
8023 McCain C R ©
N Oswego av intersects
N Richmond av intersects
245
8237 Conochan R G
Fletcher E L
Sprague M A Mrs
White A J Mrs
N Charleston av intersects
8303 Brawley M J
8315 Morsette L E ©
8323 Neumann J F ©
N John av intersects
8415 Rees W C ©
8422 Vacant
N Leavitt av intersects
8504 Kephart L J
8513 Luckeroth P R
8516 Kuehl F E ©
N Burlington av intersects
174½
PROSPECT DRIVE, SW—A circular dr from SW Montgomery pl
1725 Wick C H ©
1728 Honeyman N W Mrs ©
1735 Davis T A
1736 Mills A L ©
1739 Rowland W D ©
1743 Whelan J J © archt
1757 Rybke Benj
1767 Lee W S ©
1770 Unander S B ©
SW Montgomery dr intersects
114
QUIMBY, NW — From 1501 NW 12th av w
NW 13th av intersects
NW 14th av intersects
1433 Paulson Mach Wks
NW 15th av intersects
NW 16th av intersects
116
NW 17th av intersects
1700 Kessinger W L
1706 Aull J H
1712 Young G J
1720 Murphy A E
1732 Portland Stevedoring Co
1735 West Coast Fast Frt Inc
NW 18th av intersects
1811 Post Herbt
NW 19th av intersects
1917 Vacant
1925 Freightliner Corp truck mfrs
1930 Coulter E M Mrs ©
1936 Keller J E ©
1946 Doane P M ©
1948 Summers E R Mrs ©
1956 Arnold R B Mrs ©
1962 Leitz G H ©
1968 Bringas M A ©
NW 20th av intersects
2015 Freighters Cafe
2029 Consolidated Frtways Inc
NW 21st av intersects
2106 Hook W C ©
2146 Crooks P L & Co
2154 Plancich V F ©
2156 Vacant
2158 Bush J E
2160 Colton R P
2162 Horne W D Sht Mtl Wks
NW 22d av intersects
2224 Buck N M
Robinson R D
Russell L C
2225 Benart Bertha Mrs ©
2234 Gebhart B Karlina
Jordan S M Mrs
Mason I M Mrs
Waterman V E
2245 Isler Frieda Mrs ©
2256 Friend Helen Mrs
Hilbruner W J
Holm Olga Mrs
Rayner G H ©
2266 Foott B A Mrs
Lovinger C L
Richard Alice T
2273 Flinn Marie Mrs
NW 23d av intersects
112
2313 Vargo Julius
2315 Gianelli R M Mrs
2316 Charters L M Mrs
2317 Bloomberg Hyman ©
2324 Black D A ©
2336 Helin G A ©
Hendrickson Hilja Mrs
Nicholson Nellie Mrs
Urbie Evelyn
2344 Schleich J M
Sims H C ©
2355 Studebaker Pac Corp The auto dlrs
2356 Pryme I D ©
2369 Ore Truck Sales Inc
2370 Didak's Sandwich Shop
2379 Hannah Wm R
2384 Didak J J ©
NW 25th av intersects
2420 Joyce Court Apartments
Cohn A S
Dilsheimer L M
Ford E E
Grubb N T
Herns J I
Hervin J A
James W L
Kaplan Hyman
Lesman Celia H
Michaels E G
Nagel R A
Nagel S B
Prehn C T
Sherwood R H
Simpson D L
2433 Bybee G N
Drinkgun E
Harvath H S
Kremers Jay
2434 Radkovich Jas ©
2445 Fuller Lucille F
Loucks F T
Madson Arth
2446 Simon A I ©
2455 Westview Apartments
Barrette La Verne
Bedgood Janet Mrs
Buzzell R H
Campbell Doris
Cash Cora M
Cash J H
Clark M L
Cook J M
Crain Jayne
Erlander Erna
Flores Juanita
Hanenkart Mary
Hulen Aldea
Johnson Eloise Mrs
Ott Laura
Rufner T L
2456 McDonald Mary H
2463 Sargant Wm E ©
2473 Richardson Frances
2479 Richardson Mary M
Weirich J C ©
2480 Jane Court Apartments
Arriss A C
Doyle Jane V
Freidenrich R S
Haberfeld Helen Mrs
Hiatt H A
Leopold N R
McInnis J A
Noel Jean A
O'Shea F V
Rasenthal L A jr
Schilt A E
Schnitzer H J
Seaton Madeline
Unden Herman
Vollenhover S L
Winkleman Isidore
2485 Valleroy Kath L
2487 Magnus J G
NW 25th av intersects
126
2700 Kalmbach A P Mrs ©
2901 Hill R P ©
2910 Lipman B L ©
2941 Prehn E V ©
2951 Reinhardt J N ©
2960 Gault L R ©
NW 30th av intersects
3004 McKenna L C Mrs
O'Brien J P ©
3009 McPherson C J ©
3022 Peters G D ©
3048 Isherwood F W ©
168
RADCLIFFE COURT, SW—W from SW Radcliffe rd
168
RADCLIFFE ROAD, SW — W from SW Riverside dr
213
RAILROAD, N — From 2212 N Albina av w
N Lewis av intersects
N Clark av intersects
951 Scott-Palitzsch Feed Mills
N Harding av intersects
N Randolph av intersects
114
RALEIGH, NW — From 1601 NW 12th av w
NW 13th av intersects
1312 Vacant
1326 Vacant
NW 14th av intersects

PETTYGROVE NW 1940

PERIANDER, SW (Portland Heights
SW Homer intersects
2833 Whitlock John E
2844 Hunt Cora O Mrs ◎
2845 Mack Roy
2906 Osmund Stella ◎
2922 Turnbull Clarence A ◎
2930 Wright F Douglas ◎
3022 Crooks John S ◎
3033 Dickinson Dean H ◎
3040 Keating J Rodney ◎
3120 Vacant
3160 Wheeler Collister M
3170 Irwin Benj ◎
SW Upper dr intersects

PERSHING, SE — Fr 3301 SE Milwaukie av e
1145 Belleque John A
1150 Giannini Gino
1158 Lavarsa Minnie Mrs ◎
1170 Jones Delbert H
1176 Giannini Battista ◎
1204 Cardelli Caesar ◎
1216 Foster Irene V Mrs
1225 Callahan John H ◎
1235 Burch Louise Mrs ◎
SE 13th av, SE 14th av intersect
1431 Galvin Michl P ◎
1437 Thornton Silas W ◎
1441 Stafford Glenn A
SE 15th av intersects
1516 Hemrich Lottie Mrs ◎
1525 Smiley Norman H
1531 Richey David E
1537 Monaco Frank ◎
1543 Fischer Ernest E ◎
SE 16th av, SE 17th av and SP tracks intersect
1835 Savo Hugo ◎
1836 Gerbich Barbara Mrs ◎
1901 Wakefield Walter L ◎
1904 Snelson Pauline C Mrs
1914 Jacobson Wm ◎
1925 Howard Horace B ◎
SE 20th av intersects

PETER McQUADE DRIVE, SW (Seventh St Add)

PETTYGROVE, NW — Fr 1401 NW 12th av w
1239 A & A Machinery & Supply Co yds
NW 13th av intersects
1305 Comfort Fuel Co
NW 14th av, NW 15th av intersect
1507 Closset & Devers whol teas and coffees
Hungarian Consul
NW 16th av intersects
1624 Gerde Leif J
1630 Kostoff Louis
1632 Baker Elijah L
1638 Vacant
NW 17th av intersects
1722 Painich Josephine Mrs
1725 Shafer Ethel M Mrs
1726 Ferguson Robt J
NW 18th av intersects
1801 Hoffman Construction Co whse
1820 Conley Harry A
1822 Gustafson Alvin ◎
1824 Gustafson Melford ◎
1826 Edwards Lulu J Mrs
Smith Geo B
NW 19th av intersects
1922 Bowhill Andrew W ◎
1923 Percich John
1926 Campbell Roy
1927 Flabetich Jack
1932 Drascich Alvin P
1935 Schadle Antone
1938 Heine Florence M Mrs ◎
1940 Zwicker Emma Mrs ◎
1942 **Clark Apartments**
Randolph Fred mgr
Allison Ross C
Barr Roy H
Boyum Clifford I
Ford Geo E
Hamilton Wm B
Johnson Alfd E jr
Kantas Harry J
Knapp Norma J Mrs
Kunkle Chas M
Lowry Allen M
Peterson Frank R
Shatzer Frank
1948 Aust Orville H
Borst Chas I
1955 Smith Wm H
1956 Halvorson Ole J
1958 Rice Andrew K
1959 Turner Emery C
1963 Bodine Jennie Mrs ◎
1969 Fuller Chas W
1973 Fuller M Ellen Mrs
1979 Boyd Myrta M Mrs
1987 Hamilton John F ◎
NW 20th av intersects
2025 **LaVerne Apartments**
Eastman Amy H Mrs mgr
Brown Eva Mrs
DeBow Olivia
Morgen Dominick M
Ritz Robt L
Springer Geo A
2043 Hohenleitner Fred B
Schafer Daisy M Mrs
Smith Bertha M Mrs
2047 Schaeffer Harold A
NW 21st av intersects
2115 Kovenz Anna Mrs
2145 Crooks P L & Co Inc contrs equip
NE 22d av intersects
2221 Bunnell Boidy E ◎
2224 Bauer Jos ◎
2231 Hadley J Ralph ◎
2234 Brolliar Everill E
2236 Heddinger Ray W
2241 VanAckere Albert J ◎
2246 Stevenson Geo F ◎
2253 **Apartments**
Alberger Ralph G
Lanser Richd N
Nielsen Warren E
Stokes F Marion
2256 Hyronimus Benj J ◎
2267 Leiser Martin M ◎
Hayden Carol Mrs
2268 Story Geo W
2274 Clifford Rose Mrs ◎
2287 Hutton Eliz Mrs ◎
Faust Geo L
NW 23d av intersects
2329 Jorgenson Elsa M ◎
2331 Stocks Frankie J Mrs ◎
2336 **Roxey Court Apartments**
Robbins Fred W mgr
Brightman Lloyd F
Coghlan John N
Frazer H Holly
Jordan Lewis W
Nielson Darrel E
Retzlaff Herbert
Ross Syble C Mrs
Smith Ruth
Waugh Earl E
2343 Hyronimus Lena H Mrs ◎
2347 Peterson Forest W ◎
2350 Pease Arch L ◎
2352 Thomas Chas J
2361 **Rio Rita Apartments**
Taylor Marie C Mrs mgr
Barton Kenneth
Bengs Thelma G
Douglas Jas
Hester Dorothy
Holder Thos
Jackson Maud C Mrs
Kendall Edwin G
Mechan Lewis C
Merten Steph
Peterson B Beatrice
Saur C P S
Standard Ellen M
Stuthard Eug U
Todd Dorothy H
Varnum Molly
Volk Edw
VonBredow Ernest F
Weiden Selma Mrs
Wilson Thos
2364 Welch Peter W ◎
2373 Gundlach Eberhart A ◎
NW 24th av intersects
2421 Roedel Nora E Mrs ◎
2434 Krieske Ferdinand J
2440 Barrett Julia deN Mrs
2441 Prag Ralph M ◎
2473 Holman Laurence H ◎
NW 25th av intersects
2524 Pallay Leon L ◎
2534 Bronner Fredk H ◎
2556 Ehlen Wm H ◎ landscape gdnr
2561 Winters Wm S ◎
2572 Rich Jesse J ◎
2584 Mapes Howard G ◎
NW 26th av intersects
2610 Bialkin Nathan ◎
2624 Schulz Otto ◎
2666 Brown Arth T ◎
2680 Maple Wm E ◎
2710 Pynn Carleton P ◎
2720 Worrell Saml C ◎
2730 Radkovich Jos ◎

PHILADELPHIA AV, N—Fr N Bradford n, bet N Pittsburgh and N Alta avs
6025 Hauck Chas ◎
N Decatur intersects
6804 Bauer Clara O Mrs
6828 Balzer Frank
N Willamette blvd intersects
6905 McLane Howard E
6917 Braughn Richd L
6917½ Delker Nellie
6925 Crampton Ralph E
6935 Baker Geo B
N Edison intersects
7016 Grady Ransom V
7024 Parmenter Chas J
N Syracuse intersects
7214 P F D Eng Co No 32
P F D precinct No 3
7227 StJohns Lumber Yard
N Ivanhoe intersects
7304 Williamson Danl J restr
7305 Reed Elmer S 2d hd gds
7306 Vacant
7309 StJohns Radio Service
7310 Hughes Super Cream Parlor
7312 Masonic Temple
7316 StJohns Trading Post 2d hd gds
7317 Bridge Tavern
7322 Ballew's Grocery
7326 Peninsula Shoe Shop shoe reprs
7330 Eichelberger Ralph G jwlr
7334 Currin's For Drugs
7336 **Peninsula Bank Building**
Rooms:
3 McChesney Jos phys
4 Vacant
8 Neely Arnol R dentist
10-13 Palmer C Harold phys
14 Clemons Fonso
17 Textile Workers Union of America
Gilliland Spicy A
20 Porter Fred
23 Dahlen Leonard E
24 Shepard Perry W
25 Miller Emma Mrs
Martin Grover C

TP	Adjoining	Source
-	✓	R.L. Polk Co., Inc.

RALEIGH NW 1940

2910 Lipman Burton L
2941 Sanford Harold E
2951 Bolton Wilbur M ◎
2960 Bigelow Windsor D
NW 30th av intersects
3004 O'Brien Jas P ◎
McKenna Coe A
3009 McPherson Chas J ◎
3022 Peters Geo D ◎
3048 Isherwood Felix W ◎

RADCLIFFE COURT, SW—w fr SW Radcliffe rd

RADCLIFFE ROAD, SW—w fr SW Riverside dr

RAILROAD, N—Fr 2212 N Albina av w
N Lewis av, N Clark av intersect
951 Scott-Palitzsch Feed Mills
N Harding av intersects
N Randolph av intersects

RALEIGH, NW—Fr 1601 NW 12th av w
1220 General Petroleum Corp plant
NW 13th av intersects
1312 Cleaver Mfg Co paint mfrs
Johnson Service Co temperature regulation
1326 J & H Grain & Feed Co
NW 14th av intersects
1400 Goodyear Tire & Rubber Co
NW 15th av intersects
1524 Vacant
1536 Vacant
NW 16th av intersects
1629-39 Portland Stevedoring Co gear locker
NW 17th av intersects
1720 Fitzgerald Jack J
NW 18th av intersects
1801 Walling John E
1809 Meyer John M
1811 Owens Jas E
1819 Robinson John H
1820 Lain Marvin L
1821 Marcina Tony ◎
1830 Minor Wm
1836 Baker Saml ◎
NW 19th av intersects
1919 Vacant
1923 Brooks Wm A ◎
1935 **Apartments**
Courter Wm A
Elsea John H
Hendricks Jasper B
Smith Robt E
1936 **Apartments**
Burns Ray B
Bushnell Robt A
Faust John R
Freeman Stanley W
1945 Bennett Harry D
1955 **Apartments**
Ellis Alex mgr
Bateman Homer J
Hickox Claude
Zeller Matt J
1956-66 **Raleigh Court Apartments**
Ferrell Mary E Mrs mgr
Beasley Robt T
Ferrell Jesse H
Hatfield Bertha Mrs
Hynd Robt B
Martin Gerald R
Moore Chester B
Under Herman
Waller Harold S
Weber Fred E
1965 **Apartments**
Ellis Alex mgr
Brajavich Nicholas
Freidman Anna Mrs
Hlavinka Geo J
Schwartz Hyman
NW 20th av, NW 21st av and NW 22d av intersect
2217 Emmrick Coffee Co Inc coffee roasters
2233 Lehnherr R Gottlieb ◎
2240 Redlinger Lorenz M Fruit Machines Co
2249 Trogden John W
2265 Parson Jas
2268 Kaufman Edw M
2274 Hunt Eileen Mrs
Smith Jos
2279 Ostrander Denzel C
NW 23d av intersects
2309 Raskop John F
2319 Ridgeway Leo J
2330 Foren Wm P
2342 Rabe Paullie J Mrs ◎
NW 24th av intersects
2409 Uney Aug ◎
2414 Majestic Service Garage
2417 Williams Harry C ◎
2424 Mitchoff Mathias F ◎
2425 Wymetalek John
2434 Carter Roy J ◎
2437 Stewart Norman McL ◎
Christensen Emil
2440 Binns Walter
2445 Linklater Celia A Mrs ◎
2450 Gunderson Tarjei ◎
2455 Rubenstein Geo M ◎
2456 Beynon Thos L ◎
2462 Howard Clara C ◎
Bronner Christina C ◎
2465 **Raleigh Apartments**
Weiland Wm J mgr
Andresen Orlo M
Ashby Jos H
Brandenburg Jack
Cravat F Gray
Fussner Louise
Hammond Robt C
Hickey J P
Joseph Louis E
Lund Leo N
Manin John B jr
Moura W
Older Martin
Schimmel Emma L
Thibert Hazel
Weiser E P
Wilcox Cyrus N
2470 Vacant
2480 Friedman Jerome ◎
2486 Hoffman Jos L ◎
Mabee Maybelle Mrs
2489 Metzler Margt A ◎
NW 25th av intersects
2503 **Queen Anne Apartments**
Sims Grace E Mrs mgr
Anderson Mary
Bowles Paul S
Crain Laura M Mrs
Holman J M
Johnson Aug J
Leitch Victor T
Lingel Lloyd L
Paulson Clifford W
Perrine Rose A Mrs
Porter J Crawford
Rohde Carl D
Sechrist Robt W
Severson Kenneth B
Wilson Jas G
Zitur Auburn
2525 Ringle Clifford R
2535 Knerr Christian ◎
Hoover Clarence D
2543 Landry Jos J
2555 Esser Theo E J ◎
2565 McInnis John A
2567 Gibney Earl R
2575 Vacant
2577 Schaefer Arth C
2587 Pammow Saml
NW 26th av intersects
2621 **Pauleatha Courts Apartments**
Armstrong Geo W mgr
Bolin Robt R jr
Bonawitz Elsie Mrs
Brandley Henry
Cashman Leo
Erickson Edwin
Harden Blanche Mrs
Jacobberger Vincent
Jones Roy
Koppes Edw
Lamb Robt L
Manary David O
McCoy Russell L
Morton Geo E
Pangburn Ida M Mrs
Pool E W
Robbins Robt B jr
Rhode Ivan R
Shanley Cora Mrs
Shumate Claude
Smith Gilbert
Solheim Albert W
Stevens Jas
Vandewater Bernard
Walker Hubert E
2653 Belusko Anna M Mrs
2657 Rash Eva L Mrs
2665 Duree Albert R
2667 Simon Nathan M
2673 Gray Howard
2675 Moore Wilbur A
2683 Fabianich Geo J
2687 Sharpe Thos
NW 27th av intersects
2703 Campbell D Leonard
2715 West Andrew L ◎
2724 Vacant
2725 Easley Vern
2726 Zingsheim Wm E ◎
Schmidt Herman jr
2727 Krueger Fredk L
2735 Augur Emilie T Mrs
2736 Vacant
2738 Brown Roy A
2737 Vollendorff Louis F
2745 Ham Ethel V Mrs
2747 Robinson O Harold
2757 Lundeen Martin ◎
2764 Dietz J B Phil ◎
Dietz Phil Co
2765 Fox Geo P ◎
2775 Larson Albert
2785 Fox Myer M
2787 Vacant
NW 28th av intersects
2808 Rubin Myer C ◎
2815 Tichborne Chauncey K ◎ bldg contr
2825 Huntley Clyde G ◎
2833 McHenry Richd P ◎ landscape gdnr
2844 Hochfeld Michl M
Morris Ernst J
2854 Haslam Grace L Mrs
2855 Holmes for Homes real est
Holmes Edw L ◎
2864 Hagemann Marie H ◎
2873 Fuhrer Abr ◎
2874 Nicoll Jas B
2885 Knight Clarence A ◎
NW 29th av intersects
2911 Parker John J ◎
2925 Brennan Richd C
2926 Olson Johanne Mrs
2939 Ramsey Chas A ◎
2951 Vacant
2954 Hillary Arth R ◎
2967 Dyer Henry C ◎
2972 DeBoest Henry F

RALPH ROAD, SW (Council Crest)

RALSTON DRIVE, SW—Bet SW Terwilliger and SW Barbur blvd

TP	Adjoining	Source
-	✓	R.L. Polk Co., Inc.

PETTYGROVE ST NW 1935

SW Corbett av intersects
SW Front av intersects
19 Hurt Jos M
23 Candella Concetta Mrs
27 Christon John W
SW 1st av intersects

PERIANDER, SW (Portland Heights)
SW Homer intersects
2833 Thompson Steph E
2844 Hunt Philip A ◎
2845 Grigg Mary C Mrs
2906 Osmund Stella
2922 Hume Christina B ◎ nurse
3022 Crooks John S ◎
3033 Dickinson Dean H ◎
3040 Vacant
3120-60 Vacant
3170 Irwin Benj ◎
SW Upper dr intersects

PERSHING, SE — Fr 3301 SE Milwaukie av e
1145 Belleque John A
1150 Vacant
1158 Lavares Frank ◎
1170 Paganelli Dewey
1176 Giannini Battista
1204 Cardelli Caesar ◎
1216 Walstad Wm M
1225 Callahan John H
1235 Burch Henry C ◎
SE 13th av, SE 14th av intersect
1431 McGee Roy W
1437 Thornton Silas W ◎
Jackson Jacob W
SE 15th av intersects
1516 Hemrich Lottie Mrs ◎
1525 Taylor Thos L
1531 Richey David M
1537 Zink Robt E ◎
1543 Fischer Ernest E ◎
SE 16th av, SE 17th av and SP tracks intersect
1835 Fuston Martin
1836 Gerbich Nick ◎
1901 Wakefield Walter L
1904 Fitzgerald Stewart C
1914 Ravagni Aug ◎
1925 Williams Victoria A Mrs ◎
SE 20th av intersects

PETER McQUADE DRIVE, SW (Seventh St Add)

PETTYGROVE, NW — Fr 1401 NW 12th av w
1239 Inglehart Ernest F
NW 13th av intersects
1305 Lang Coal Co
1319 Burtch Eva Mrs
NW 14th av, NW 15th av intersect
1507 Closset & Devers whol teas and coffees
NW 16th av intersects
1624 Vacant
1630 Banich Marion
1632 Vacant
1638 Vacant
NW 17th av intersects
1706 Vacant
1711 Vacant
1722 Bevry Oscar
1725 Halseth Emma Mrs ◎
1726 Vacant
NW 18th av intersect
1801 Hoffman Construction Co whse
1820 Conley Harry A
1822 MacLean Danl M
1824 Madlem Isaac F
1826 Fuller Fred S
NW 19th av intersects
1917 Wilson Wm
1922 Kostoff Louis
1923 Percich John
1926 Yanskow Tom
1927 Florbetich Jacob
1932 Bozich Anton
1935 Hooson Jos J
1938 Heine Florence Mrs ◎
1940 Zwicker Emma Mrs ◎
1942 **Clark Apartments**
Apartments:
A Patrie Dora E Mrs
B Potter Jennie
C Peterson Frank
D Scott Jas C
E Vacant
F Downey John
G Quist Gus
H Erickson Oliver
I Larson Frances Mrs
J Jessup Ed E
K Downey Martha Mrs
L Magnusen A
M Hills Paul J
Street continued
1947 Vacant
1948 Jackson Axel
1955 Ryland Elmer M
1956 Vacant
1958 Bennett Leon E
1959 Schadle Wm H
1963 Bodine Hugo
1966 Bishop J Frank
1969-79 Vacant
1970 Vacant
1974 Nelson John
1987 Hamilton John F
NW 20th av intersects
2025 **LaVerne Apartments**
Apartments:
1 Springer Geo H
2 Eastman Amy H Mrs
3 O'Blisk Myles R
4 Ritz Robt L
Street continued
2043 Cook King M ◎
Driscoll Anne V Mrs
2047 Roth Wilhelmina Mrs
NW 21st av intersects
2115 Schmidt Anna Mrs
2145 Cress & Co bldg matl
NW 22d av intersects
2221 Bunnell Boidy E ◎
2231 Emerson Ernest L
2234 Oberg Theresa M Mrs
2236 Vacant
2241 Nelson Andrew J ◎
2253 **Apartments**
1 Stokes F Marion
2 Miller H Norman
3 Simon Marie Mrs
4 Eccles David W
Street continued
2256 Hyronimus Benj J ◎
2267 Leiser Martin ◎
Bolton Wilbur M
2268 Brumfield Frances D Mrs ◎
2274 Clifford Rose Mrs ◎
2287 Hutton Wm T ◎
Faust Geo
NW 23d av intersects
2329 Jorgenson Elsa M ◎
2331 Stocks Lloyd W ◎
2336 **Roxey Court Apartments**
Apartments:
A Robbins Fred W ◎
B Bruck Norman J
C Agan Neil T
D Johnson Wm B
E Retzlaff Herbert
F Grosscup Arth J
G Anderson Albert C
H Reimers Ralph G
I Bennett Clarence G
J Ross Syble Mrs
K Joujon-Roche Felix
L Pallady Harry A
M Hoeck Wm A
Street continued
2343 Hyronimus Lena H Mrs ◎
2347 Peterson Forest W ◎
2350 Pease Arch L
2352 Schwiegershausen Otto A
2361 **Rio Rita Apartments**
Apartments:
1 Holcomb Minerva P Mrs
2 Creason Blanche M
3 Crain Laura Mrs
4 Escola Edmund R
5 Mounce Earl I
6 Simonton Dale W
7 Vacant
8 Schroeder Rudolph J
9 David Richd A
10 Reinhart Agnes D Mrs
11 Lamoureux Aline M
12 Phillips Dorothy L
Steele Marie Mrs
13 Saur Chas P
14 General Adjustment Bureau
Meinhoff Robt W
15 Brownlow Winifred E Mrs
16 Steffensen Chris
17 Wood Estella M Mrs ◎
Street continued
2364 Morris Ida A Mrs ◎
Carman Frank J
2373 Gundlach Eberhart A ◎
NW 24th av intersects
2421 Wilcox Martha D Mrs ◎
2434 Wilson Geo R
2440 Goldsmith Edw ◎
2441 Vacant
2473 Holman Lawrence H ◎
NW 25th av intersects
2524 Pallay Leo L ◎
2534 Bronner Fredk H ◎
2556 Ehlen Wm H ◎ landscape gdnr
2564 Kelling Albert
2572 Rich Jesse J ◎
2584 Mapes Howard G ◎
NW 26th av interseets
2610 Bialkin Nathan ◎
2624 Swindells Chas J
2666 Brown Arth T ◎
2710 Pynn Carleton P ◎
2720 Worrell Saml C ◎

PHILADELPHIA AV, N—Fr N Bradford n, bet N Pittsburg and N Alta avs
N Decatur intersects
6804 Hahn Isaac
6828 Balzer Frank
N Willamette blvd intersects
6905 Bauer Esther
6917 Lancaster Roy D
Braughn Richd L
6925 Vacant
6935 Yancey Hazel E
N Edison intersects
7016 Grady Ransom V
7024 Anderson Ollie Mrs ◎
N Syracuse intersects
7214 P F D Eng Co No 32
P P D precinct No 3
7217 Henderson Ollie
7219 Little Cash Grocery
Gee Albert ◎
7223 Vacant
7227 StJohns Builders Supply
7229 Clayton Forrest L
N Ivanhoe intersects
7304 Williamson Dan J restr
7305 Reed Elmer S notions
7306-10 Vacant
7309-11 Vacant
7312 Masonic Building
7316 Oregon Woolen Store
7317 Bridge Cafe
7322 Blue Front Grocery
7323 Clark S T genl reprs
7325 Vacant
7326 Peninsula Shoe Shop shoe reprs
7329 Central Hotel
7330 Eichelberger Ralph G jwlr
7334 Currin's For Drugs
7336 **Peninsula Bank Building**
Rooms:
3 McChesney Jos phys
4 Watts Felton D phys
8 Nagues Raymond G dentist
10-13 Palmer C Harold phys
14-17 Doble Harriet M Mrs
18 Miller Alice Mrs
20 Vacant
23 Wilson Donald E
24 Ramey Louise M Mrs
Street continued
7340 Peninsula Branch United States National Bank

PIER PARK PLACE, N—Fr 8435 N Fessenden av w
N StLouis av intersects
9109 McEnany Rita P Mrs
N Fox ends
9164 Kuhn Christina Mrs ◎
N Olympia ends
9217 Henderson Henry S ◎
9222 Kull Walter F ◎
N Trumbull av ends
N Hartman ends
9228 McMahon Robt A ◎
9336 Ittensohn Alex ◎
9345 Swanson Victor A ◎
9346 Fenton Mabel A Mrs ◎
N Stevenson ends

TP	Adjoining	Source
-	✓	R.L. Polk Co., Inc.

RALEIGH ST NW 1935

1935

3009 McPherson Chas J ⊙
3022 Peters Geo D ⊙
3048 Isherwood Felix W ⊙

RADCLIFFE COURT, SW—w fr SW Radcliffe rd

RADCLIFFE ROAD, SW—w fr SW Riverside dr

RAILROAD, N—Fr 2212 N Albina av w
N Lewis av, N Clark av intersect
951 Scott-Palitzsch Feed Mills
Albina Warehouse Co
N Harding av intersects
N Randolph av intersects

RALEIGH, NW—Fr 1601 NW 12th av w
NW 13th av intersects
1312 Cleaver Mfg Co paint mfrs
Johnson Service Co htg and ventilating
Murphy John W genl contr
Gerling Fred C auto repr
1326 McIntosh Robt Engine & Machine Works
NW 14th av intersects
1400 Goodyear Tire & Rubber Co
NW 15th av intersects
1536 Miessen Fuel Co whse
NW 16th av intersects
1629 Vacant
1639 International Stevedoring Co
NW 17th av intersects
1710 Badgley Fred
1720 Fitzgerald John J
NW 18th av intersects
1801 Leovich Theresa Mrs
1809 Merck Jos
1811 Deibele Florian F
1819 Robinson John H
1820 Stiglich Frank L
1821 Vacant
1830 Quigley John J
1836 Baker Saml ⊙
NW 19th av intersects
1919 Vacant
1923 Brooks Wm A ⊙
1935 **Apartments**
1 Courters Wm C
2 Cain Fred C
3 Hamilton Fredk R
4 Hendricks Jasper B
Street continued
1936 **Apartments**
1 Burton Kenneth B
2 Eberle Chas J
3 Unden Herman
4 Stevens Robt L
Street continued
1945 Heizenreter Geo
1955 **Apartments**
1 Greenwood Geo J jr
2 Miller Jules S
3 Johnson Lyle
4 Pollock Clarence E
Street continued
1956-66 **Raleigh Court Apartments**
1956 Apartments:
1 Weisenborn Leonard W jr
2 Ferrell Jesse H
3 Strinsky Saul
4 Waters Mabel I Mrs
1966 Apartments:
1 Nelson Lester V
2 Allen Homer E
3 MacRae Gordon
4 Unden Ragner
Street continued
1965 **Apartments**
1 Schwartz Hyman
2 Jones Geo M
3 Douglas Jas G
4 Ellis Alex
NW 20th av, NW 21st av and NW 22d av intersect
2217 Vacant
2233 Lehnherr R Gottlieb ⊙
2240 Redlinger Lorenz M
2249 Stober Helena Mrs ⊙
2265 Spliid Theo L ⊙ pntr
2268 Derr Wm L
2274 Hunt John D
2279 Crump Ralph E
NW 23d av intersects
2309 Roskop John F
2313 Row Oliver
2319 Mathiot Zane V
2330 Wagner Henry A
2342 Rabe Paullie J Mrs ⊙
Newhart Woodrow W
NW 24th av intersects
2409 Kerns Don C ⊙
2414 Sparks Transfer Co side entr
2417 Williams Harry C ⊙
2424 Mitchoff Mathias F ⊙
2425 Wymetalek John
2434 Carter Roy J ⊙
2437 Christensen Emil ⊙
Stewart Norman M
2440 Conrath Bert R ⊙
2445 Linklater Celia A Mrs ⊙
2450 Gunderson Tarjei
2455 Rubenstein Geo M ⊙
2456 Pauley Orville A
2462 Howard Clara C ⊙
2465 **Raleigh Apartments**
Apartments:
A Ryan Arth W
100 Thompson Lee L
101 McKaig Robt M
102 Peterson Howard E
103 Kessler Harry F
104 Luehrs Robt
105 Ohls Geo A
106 James Lee
107 Welch Ione O Mrs
200 Frank Lloyd J
201 Metcalf Tracy M
202 Lillie Frank C
203 Morrison Robt
204 Webber Chas H
205 James Ted E
206 Schumacher Henry
207 Pearce Frank C
Street continued
2470 Vanderwall Jay C
2480 Friedman Jerome ⊙
2486 Hoffman Jos L
2489 Vacant
NW 25th av intersects
2503 **Queen Anne Apartments**
Apartments:
101 Emerick Chas J
102 Glasgow Jas W
103 Briggs Earl H
104 Austin Jean
201 Walden Claire Mrs
202 Walden Melvin L
203 LaFrance Emma M Mrs
204 Grant J Otis
205 Gordon Edw G
206 Francis Walter R
301 Gorlinski Francis L A
302 Johnson Aug J
303 Marett Chas J jr
304 McAllis Thos H
305 Shugart Geo Z
306 Backen Millie
Street continued
2525 Morgan Arth H ⊙
2535 Knerr Christian ⊙
2543 Landry Jos J
Landry Emma W Mrs music tchr
2555 Esser Minnie Mrs
2565 Holman Jas M
2567 Sharpe Thos
NW 26th av intersects
2621 **Chapman Courts**
Apartments:
10 Ferguson Frank S
12 Corcoran Frank T
14 Hoppe T L Mrs music tchr
16 Hamilton Arth
18 Rush Leo C
20 Wolf Julius
21 Potts Geo E
22 Ray Alice
23 Allen Homer E
24 Vacant
25 Avery Mary M Mrs
26 Bimpson Eleanor
27 McCoy Russell L
28 Schultz Leone Mrs
29 Scottheim Olaf H
30 Wisshack Gustavus
31 Bouron R J
32 Kingsley Errol F
33 Mauphet A H
34 Dean Monroe H
35 Stevens Jas R
36 Edge John M
37 Gross Caleb A
38 Ekstrom Lillian Mrs
39 Warrens Chas E
Street continued
2653 Gray Otto D
2657 Praggastis John D
2665 Scott Blake F
2667 Colbert Paul
2673 Gray Howard
2675 McDonald Victor H
2683 Conklin C W
Wolfstead H C
2687 Hartshorn Jack
NW 27th av intersects
2700 Kalmbach Anna Mrs
2703 Vacant
2715 West Andrew ⊙
2725 Olcott Mary J Mrs
2727 Armstrong Edw P
2735 Augur Herbert B
2737 Leland Wayne R
2745 Ham Ethel V Mrs
2747 Zingsheim Wm E ⊙
2757 Lundeen Martin ⊙
2764 Dietz J B Phil ⊙
2765 Fox Geo P
Polk Milton D
2775 Parr Saml F
NW 28th av intersects
2808 Rubin Myer C ⊙
2815 Tichborne Chauncey K ⊙
2825 Huntley Clyde G ⊙
2833 McHenry Richd P ⊙ landscape gdnr
2844 Wheeler Collister M
2854 Cohn Abr S
2855 Kerr John T ⊙
2864 Hagemann Marie H ⊙
2873 Fuhrer Everham ⊙
2874 Goldsmith Isadore
2885 Knight Clarence A ⊙
NW 29th av intersects
2911 Parker John J ⊙
2925 Hunt Robt A
VanAckere Albert J
2926 Vacant
2939 Ramsey Chas A ⊙
2951 Perry Gerald J ⊙
2954 Sanford Harold E ⊙
2967 Dyer Henry C ⊙
2972 Johnson Gust J ⊙

RALPH ROAD, SW (Council Crest)

RALSTON DRIVE, SW—Bet SW Terwilliger and SW Barbur blvd

RAMONA, SE—Fr the river e, intersecting SE Milwaukie av at 5801
1346 Tate W Bryan
1414 Cox Allan R
1415 Rohse Bruno A ⊙
1425 Kane Irving
1435 Cobb Jos B ⊙
SE 15th av intersects
1505 Hawksley Marvin M ⊙
1506 Taylor Geo E ⊙
1515 Jenne Herman ⊙
1524 Meierhans Chas ⊙
1525 Miller Carl S ⊙
1534 Vacant
SE Milwaukie av intersects
Unopened to SE 39th av
3914 Lethaby John W
SE 40th av intersects
4005 Hammond Ethel Mrs
4014 Jenkins Fred A
4015 Peters Earl S
4021 Behnke Golda I
SE 41st av intersects
4116 Bryant Chas
4120 Thorpe Arth R
4128 Smith Mary F Mrs ⊙
McGillivray Eliz A Mrs
Mooney Gertrude V Mrs
Prell John
SE 42d av intersects
4205 Patterson Sylvester
4206 Guerrettaz Calvin V
4219 Donart C F ⊙ wood sawyer
4230 Saxton Chas A ⊙ pntr
SE 43d av intersects
4305 Vacant
4306 Davidson Alex ⊙
4312 Ragnar Emil
4319 MacKay Thos C ⊙
SE 44th av intersects
4404 Windnagle Adnah J ⊙
4427 Barnett Alonzo
4428 Williams May Mrs ⊙
SE 45th av intersects
4507 Liljeholm Arth E
4511 Lewis Delmar D ⊙
SE 46th av, SE 47th av and SE 48th av intersect
4803 Crocker A Lee ⊙
4805 Vacant
SE 49th av intersects
4911 Anderson Eric jr ⊙
SE 50th av intersects
5013 Hyland Virgil L ⊙
5037 Farrier Clarence E
5053 Whallon Jonas C
SE 51st av intersects
5104 Ballard Lynn W ⊙
5112 Draper Loy J
5124 Wells Ward W ⊙
SE 52d av intersects
5306 Schillereff Fred
SE 54th av intersects
5404 Vacant
5410 Kirigin Nicholas ⊙
5417 Wedel Wm F ⊙
5422 Vacant
5503 Orazio Geo I
5509 Giardina Sam
5515 White Delorma E ⊙
5522 Shaffer Francis E ⊙
5528 Stipanov Robt C ⊙
5529 Vacant

Block 24 - Former Hoyt Street Railyard

NW 12th Avenue and NW Quimby Street

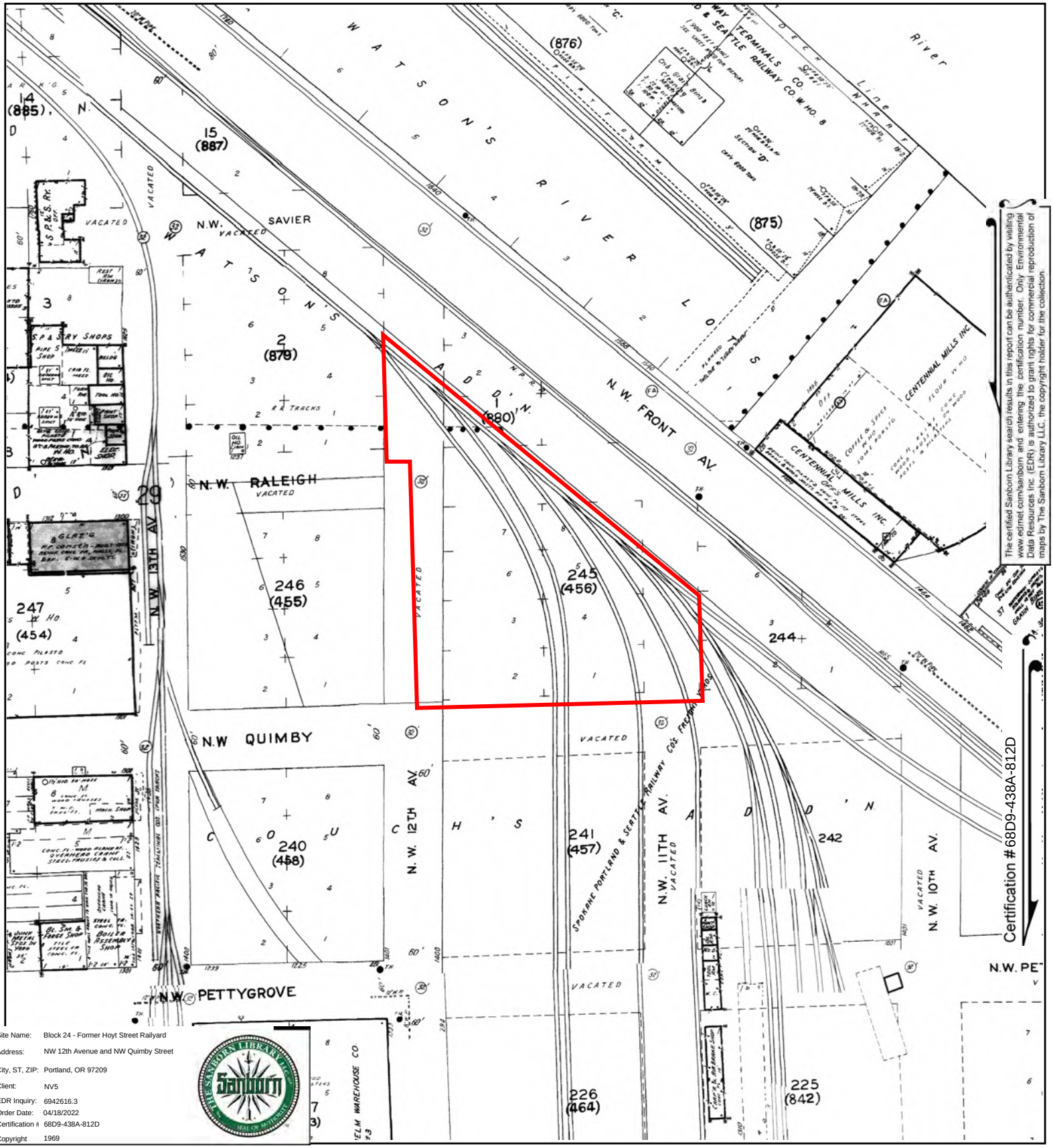
Portland, OR 97209

Inquiry Number: 6942616.3

April 18, 2022

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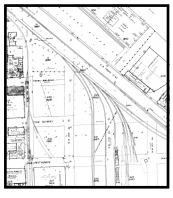
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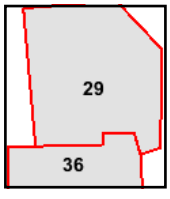
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City, ST, ZIP:	Portland, OR 97209
Client:	NV5
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Order Date:	04/18/2022
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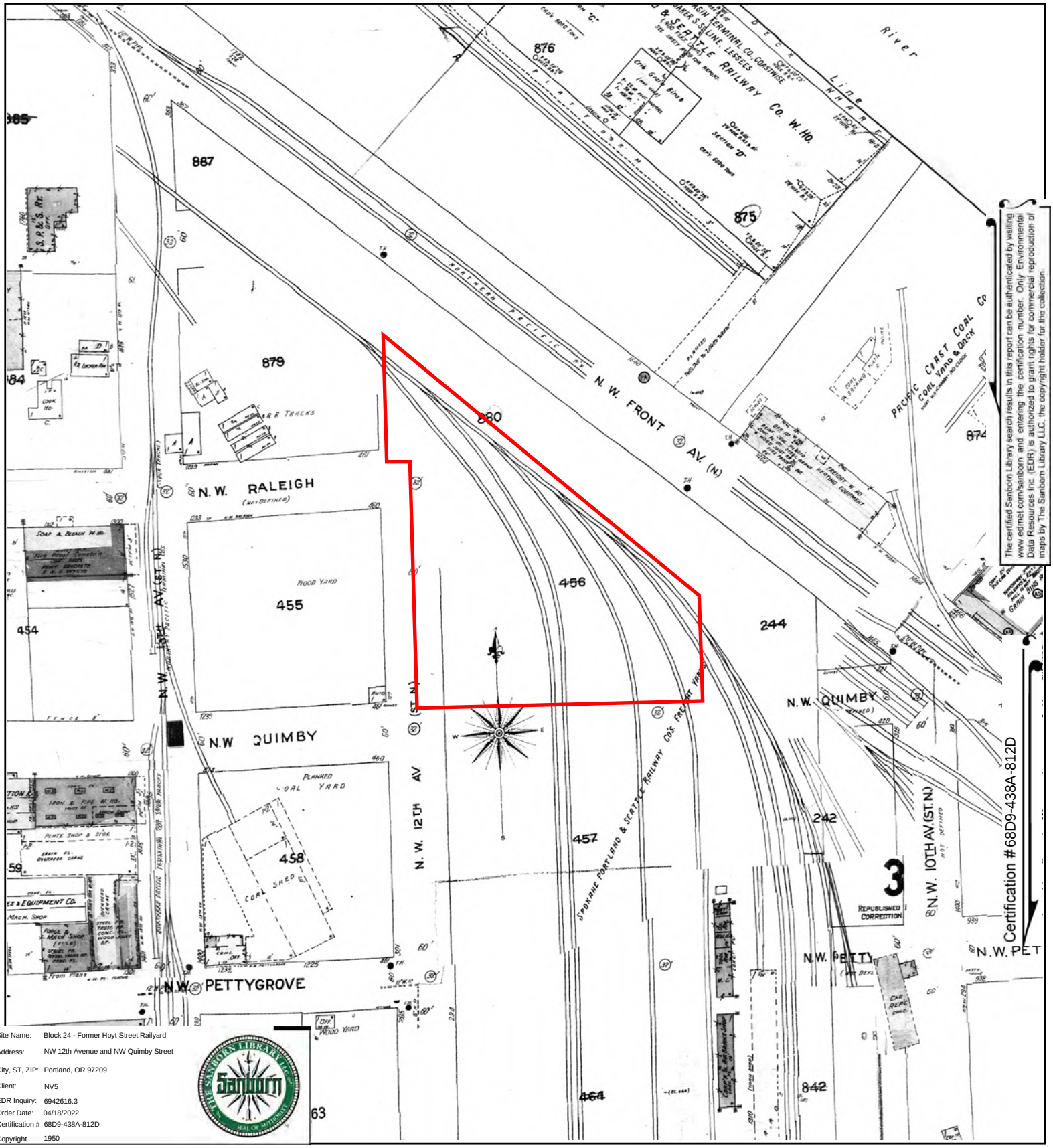
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Volume 1, Sheet 29

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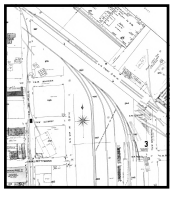
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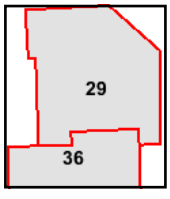
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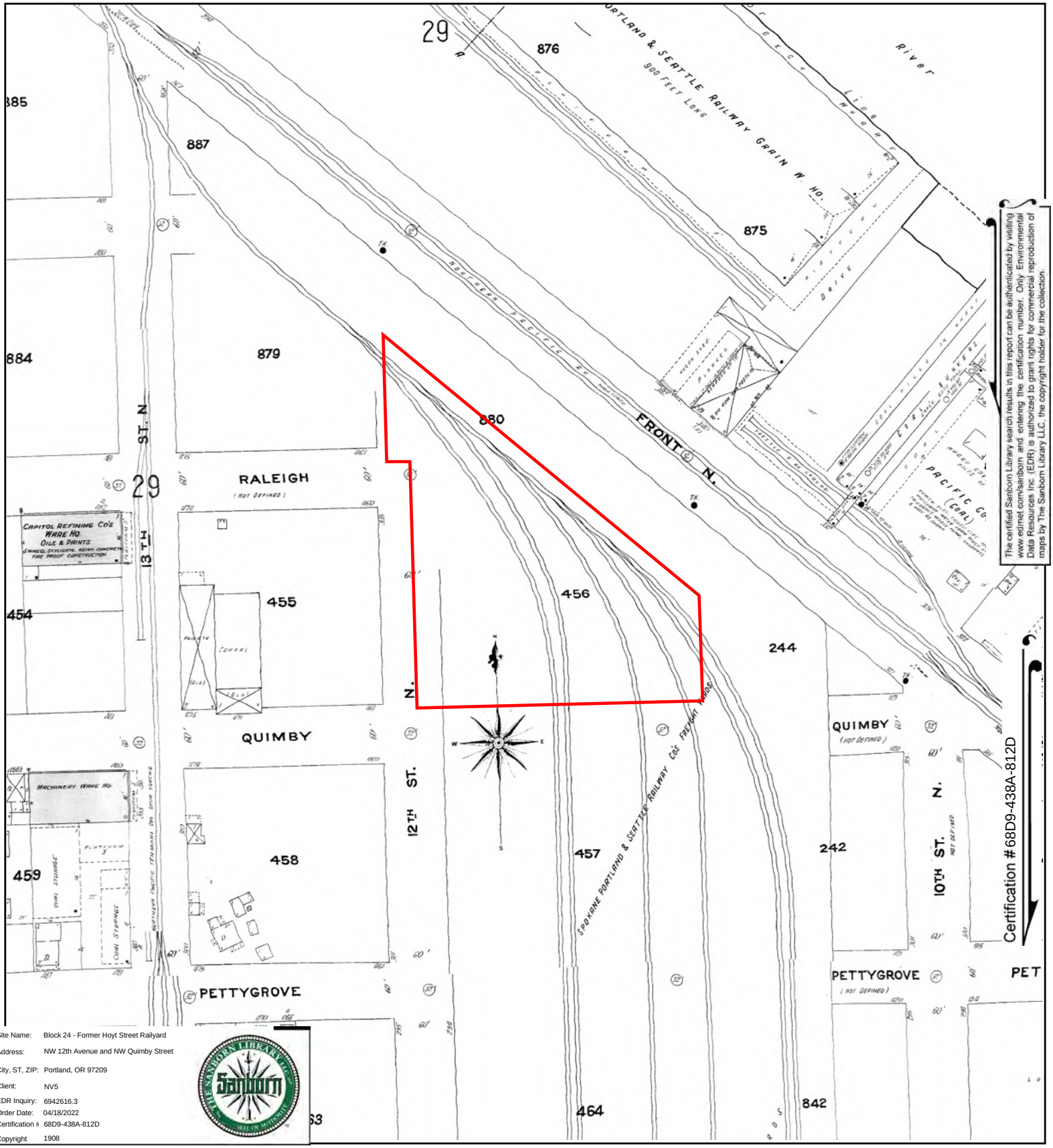
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Volume 1, Sheet 29

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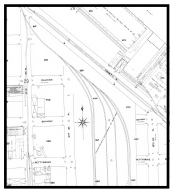


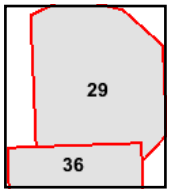
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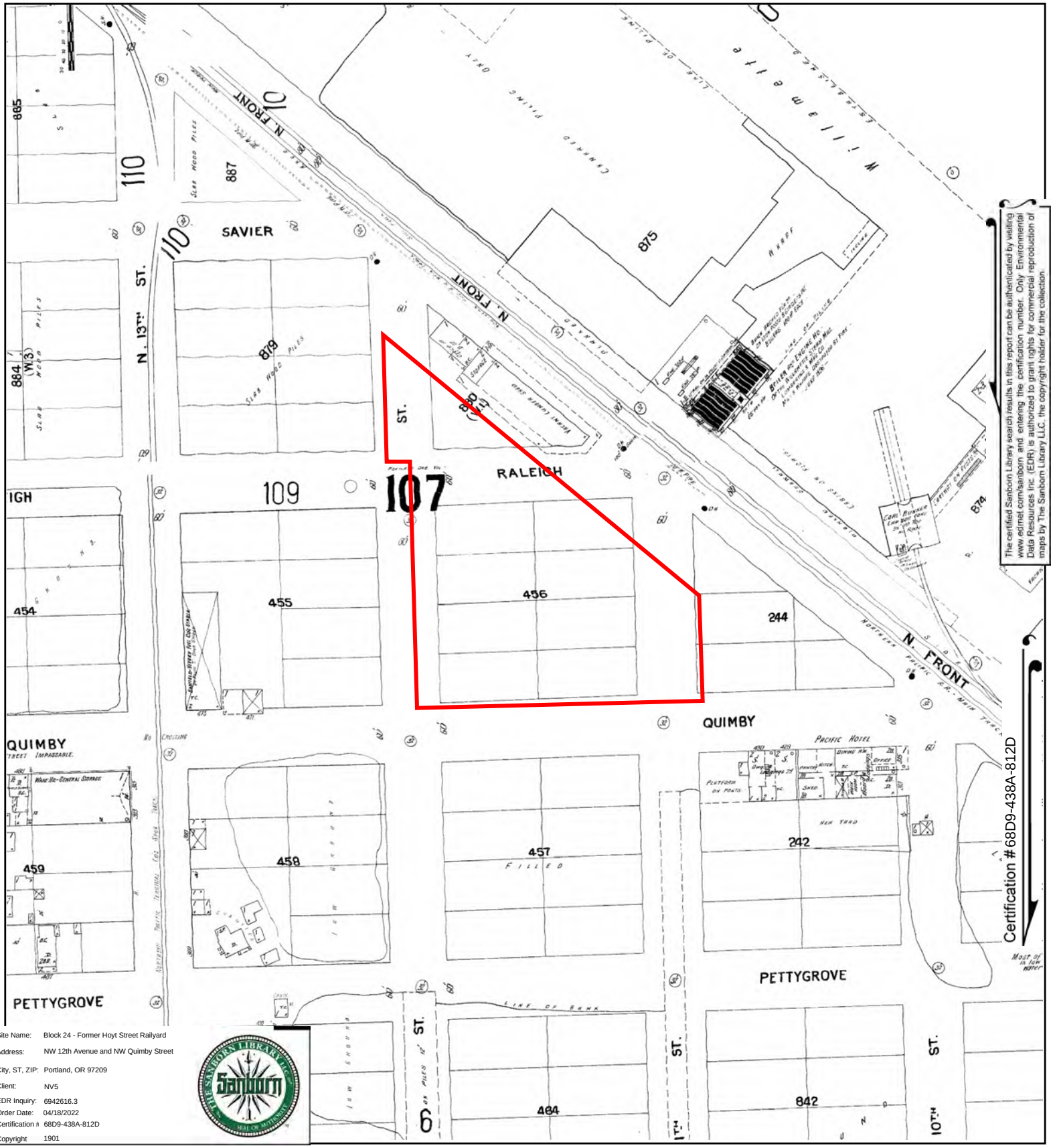
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Volume 1, Sheet 29

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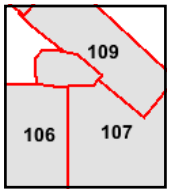


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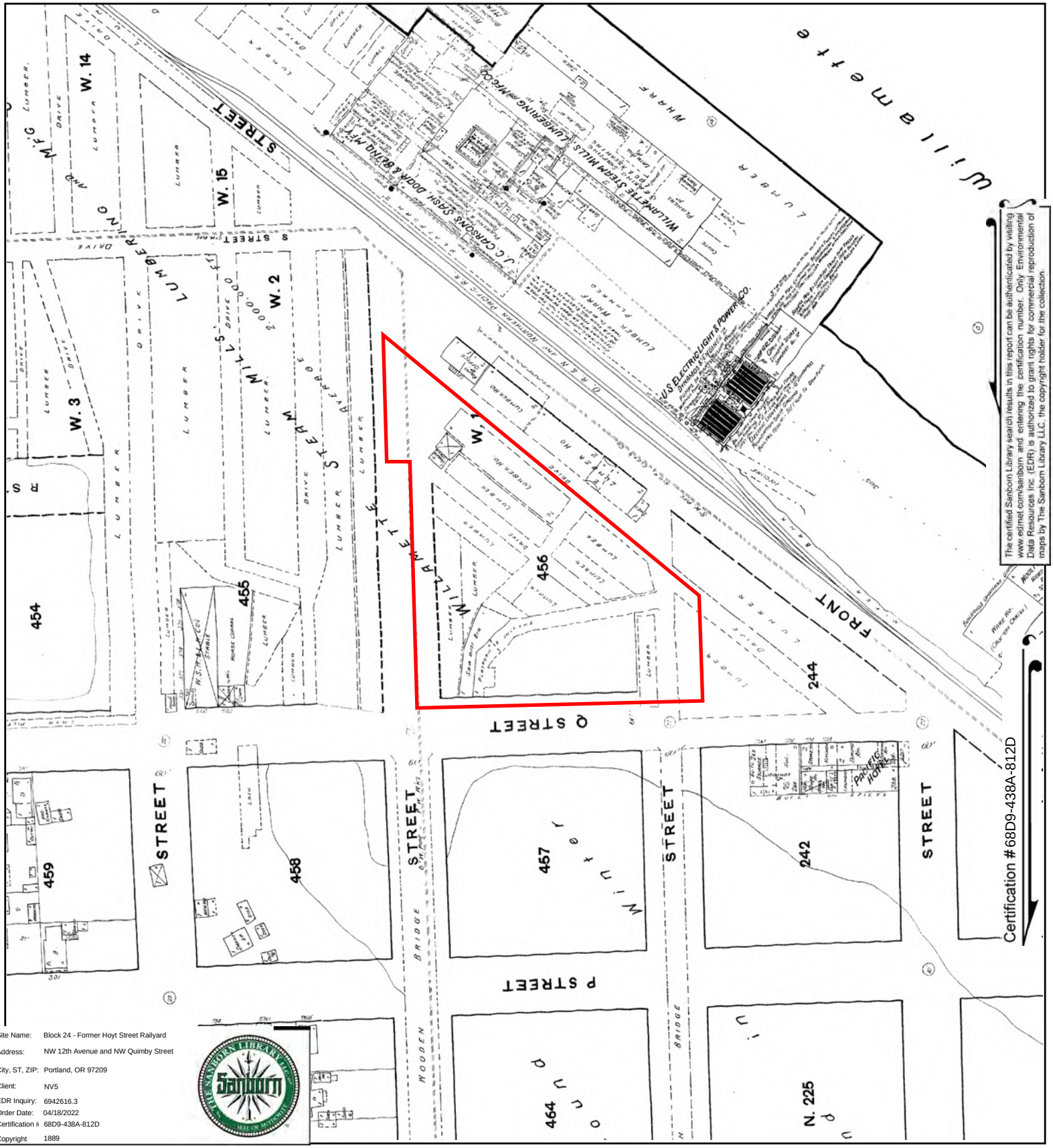




Volume 1, Sheet 109
Volume 1, Sheet 107
Volume 1, Sheet 106

0 Feet 150 300 600

N

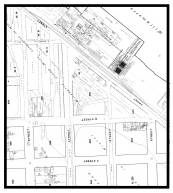


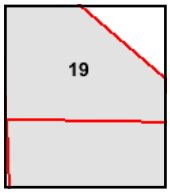
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Site Name: Block 24 - Former Hoyt Street Railyard
Address: NW 12th Avenue and NW Quimby Street
City, ST, ZIP: Portland, OR 97209
Client: NV5
EDR Inquiry: 6942616.3
Order Date: 04/18/2022
Certification #: 68D9-438A-812D
Copyright 1889

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

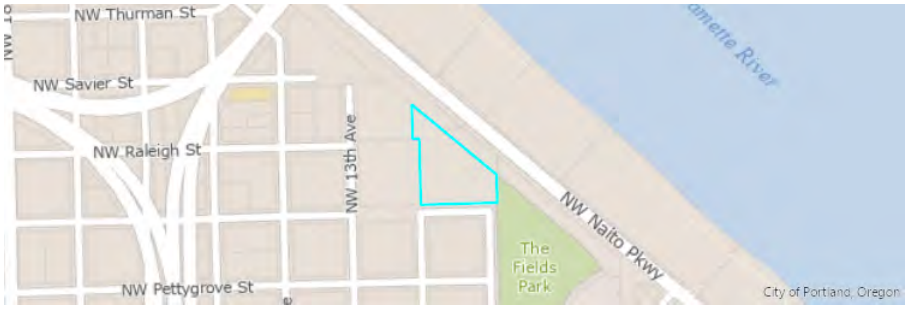
0 Feet 150 300 600





Volume 1, Sheet 19
Volume 1, Sheet 19

N



NW QUIMBY ST

PORTLAND, OR 97209

PROPERTY

Year Built	
Neighborhood	PEARL DISTRICT
Jurisdiction	Portland / Multnomah
Zoning	EX - Central Employment
Elevation	31 ft (approximate)
Owner	HOYT STREET PROPERTIES L L C
Owner Address	1111 NW PETTYGROVE ST PORTLAND, OR 97209-2483
Split Property Parent	R141027
Split Property Children	

For more information about data updates or discrepancies, please contact Multnomah County Assessment, Recording & Taxation at (503) 988-3326 or dartcs@multco.us.

Assessor

Last Sale

Price	$0.00
Date	01/01/1900

Property Values (2020)

Market Value	$21,000,000.00
Assessed Value	$7,045,660.00

Taxes (2020)

Property Taxes	$179,820.01
Total Taxes	$179,820.01

Permits & Zoning

Bureau of Development Services
Phone: 503-823-7300
Zoning Hotline: 503-823-7526
Email: bds@portlandoregon.gov
1900 SW 4th Ave, Suite 5000, Portland, OR 97201
www.portlandoregon.gov/bds/

Parks

Nearby

Tanner Springs Park	**1532ft**
0.92 acres	
Jamison Square	**0.50mi**
0.94 acres	
North Park Blocks	**0.76mi**
3.11 acres	
Couch Park	**0.86mi**
2.40 acres	
Lillis-Albina Park	**1.07mi**
3.93 acres	

Schools

Attendance Area

District	PORTLAND SD
Elementary School	Chapman Elementary School
Middle School	West Sylvan Middle School
High School	Lincoln High School

For more information about school attendance areas go to the Schools Map

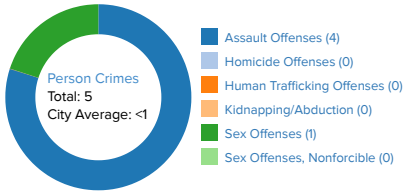
Nearby Schools

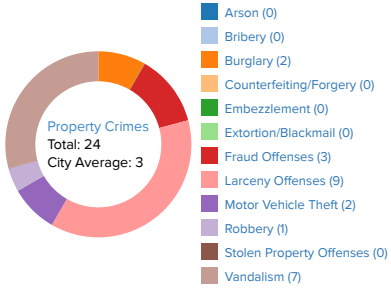
Early Learners Academy at the Ramona	**446ft**
Public P	
Scuola Italiana	**563ft**
Public P	
Metro Montessori at Childpeace	**945ft**
Private 7-8	
Childpeace Montessori School	**1404ft**
Private P-8	
Children's Garden - Field Office Campus	**0.38mi**
Private P-K	

Public Safety

Crime Statistics

To display crime data on the map click the crime category (person, property, or society) within the circle below







Data Range: 03/22/2021 - 03/21/2022

Reported crime counts are aggregated across hexagonal 1/8 mile grid sections of the city, and do not represent the number of reported crimes on a specific tax lot. Points on the map are generalized to the midblock point and may represent the location of multiple reported crimes. The locations of certain crimes are not shown on the map due to privacy concerns, but are included in counts and averages.

The records depicted give a general picture of crime events in the surrounding area and are not official crime statistics. Some information displayed is currently under review and may change subject to record finalization. For greater detail about each record, visit Portland Police Bureau's Open Data Portal and download offense data directly from the Crime Statistics Dashboard.

Police Jurisdiction

Portland Police Bureau - Central Precinct
1111 SW 2nd Ave, Portland, OR 97204
(503) 823-0000
http://www.portlandpolice.com

Nearest Fire Station

Station Number 3
1715 NW JOHNSON ST
PORTLAND FIRE & RESCUE

Fire Management Area

Area Number	03

Hazard

FEMA Special Flood Hazard Area (SFHA)	No
FEMA Reduced Flood Risk Due to Levee	No
1996 Flood Inundation Area	Yes
Elevation Certificate(s)	No
Steep Slope Area (20%)	Yes
Mapped Landslide Inventory Area	No
Title 33 Potential Landslide Hazard Area	No
Wildfire Hazard Area	No
Liquefaction Hazard Zone(s)	Very High
Cascadia Subduction Zone M 9.0 Earthquake Damage Potential	Moderate/Heavy
Portland Hills Fault M 6.8 Earthquake Damage Potential	Heavy

Basic Earthquake Emergency Communication Node (BEECN)

Location	NW Overton Street and NW 11th Avenue
Site	The Fields
Owner	PP&R

Transportation

Portland Bureau of Transportation (PBOT)
1120 SW 5th Ave, Portland, OR 97204
www.portlandoregon.gov/transportation/

Traffic Safety

Vision Zero is a citywide effort to make Portland's transportation system the safest possible and to move towards zero traffic-related fatalities and serious injuries in the next 10 years
View the Vision Zero Traffic Injuries and Fatalities Map

Report a Traffic Safety Concern
Call the Transportation Safety and Neighborhood Livability Line (503-823-SAFE) or email safe@portlandoregon.gov

Traffic Counts

Learn more about traffic counts
View Portland traffic counts map

TSP Classifications

View the Transportation System Plan (TSP) street classification map

Snow & Ice Priority Routes

Learn about the City's snow and ice response plan

Parking

Learn more about Portland's parking policy and programs

For more information contact 503-823-2777 or email parking@portlandoregon.gov

Report a Maintenance Issue

Please call our 24 hour/7 days a week hotline (503-823-1700) for maintenance and repair issues or email BOMDispatch@portlandoregon.gov

Smart Trips

Learn about active transportation options for yourself, your family or your business

Transit

To plan a trip, use TriMet's Trip Planner

Survey Benchmarks

Leaf Day

District	n/a
Sweep Date 1	n/a
Sweep Date 2	n/a

Learn more about Portland's Leaf Day Program

Utilities

Garbage & Recycling

Residential Customers
Arrow Sanitary
(503) 257-3993
http://www.wasteconnectionspdx.com

Collection Day	Wednesday
Westside Terrain Area?	No
Commercial Customers	Unfranchised
Dropbox Services	Unfranchised

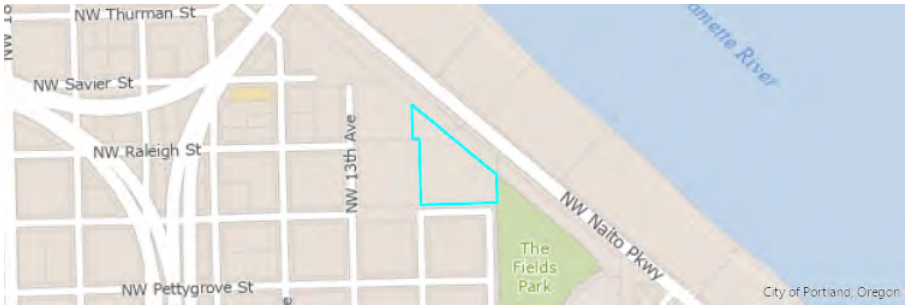
Bureau of Planning & Sustainability
Curbside Hotline: 503-823-7202
Email: wasteinfo@portlandoregon.gov
1900 SW 4th Ave, Suite 7100, Portland, OR 97201
www.portlandoregon.gov/bps/

Sewer & Environmental

Bureau of Environmental Services
Phone: 503-823-7740
1120 SW 5th Ave. #613, Portland, OR 97204
www.portlandoregon.gov/bes/

Water

Portland Water Bureau
Phone: 503-823-7770
1120 SW 5th Ave. #405, Portland, OR 97204
www.portlandoregon.gov/water/



NW QUIMBY ST

PORTLAND, OR 97209

ASSESSOR

Address	NW QUIMBY ST
Address2	PORTLAND, OR 97209
City	PORTLAND
Property ID	R657531
Tax Roll	COUCHS ADD, BLOCK 245&260 TL 709
Use	VACANT LAND
Block	245&260 TL 709
County	M
State ID	1N1E28DD 709
New State ID	1N1E28DD -00709
Alt Account Number	R180222160
Map Number	2828
Total Land Area	1.61 acres
Building Area	0 sq ft
Split Property Parent	R141027
Split Property Children	
Assessor Update Date	04/18/2022 4:20AM

Improvements

Land

Type	Area
COM - COMMERCIAL LAND	1.21 acres
COM - COMMERCIAL LAND	0.41 acres (17,798 sq ft)

Assessment History

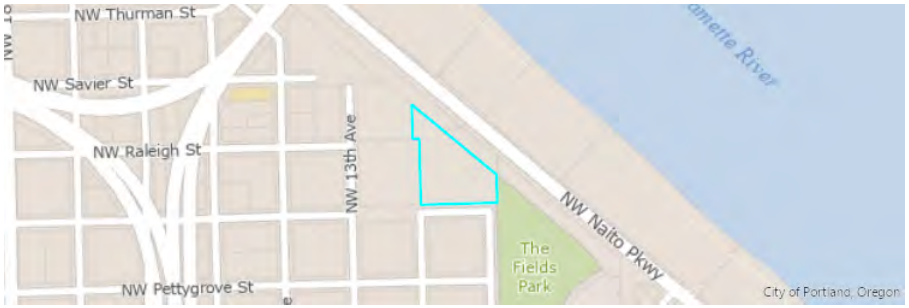
Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2020	$0.00	$21,000,000.00	$0.00	$21,000,000.00	$0.00	$7,045,660.00
2019	$0.00	$21,000,000.00	$0.00	$21,000,000.00	$0.00	$6,840,450.00
2018	$0.00	$15,303,750.00	$0.00	$15,303,750.00	$0.00	$6,641,220.00
2017	$0.00	$14,437,500.00	$0.00	$14,437,500.00	$0.00	$6,447,790.00
2016	$0.00	$10,500,000.00	$0.00	$10,500,000.00	$0.00	$1,087,470.00
2015	$0.00	$19,903,260.00	$0.00	$19,903,260.00	$0.00	$1,980,890.00
2014	$0.00	$14,743,160.00	$0.00	$14,743,160.00	$0.00	$1,923,200.00
2013	$0.00	$13,047,040.00	$0.00	$13,047,040.00	$0.00	$1,930,160.00

Tax History

Year	Property Tax	Total Tax
2020	$179,820.01	$179,820.01
2019	$173,205.64	$173,205.64
2018	$168,110.55	$168,110.55
2017	$161,118.01	$161,118.01
2016	$25,612.63	$25,612.63
2015	$46,793.01	$46,793.01
2014	$46,087.17	$46,087.17
2013	$46,533.11	$46,533.11

Tax Maps

Quarter Section	Size
1n1e28dd (Current Property)	528.5 KB
1n1e28a	473.1 KB
1n1e28b	604.8 KB
1n1e28bc	429.0 KB
1n1e28bd	81.2 KB
1n1e28c	5,891.8 KB
1n1e28ca	401.7 KB
1n1e28cb	284.3 KB
1n1e28cc	523.3 KB
1n1e28ccd1	33.1 KB
1n1e28ccd2	28.7 KB
1n1e28cd	387.6 KB
1n1e28d	504.2 KB
1n1e28db	124.8 KB
1n1e28dc	502.0 KB
1n1e28ddd	23.7 KB
1n1e28ddet	30.9 KB



NW QUIMBY ST

PORTLAND, OR 97209

PERMITS

Application Number	Address	Type	Status	Updated
2016-245834-000-00-IQ	NW	Density/FAR Transfer Inquiry	Current	12/2/19
2016-134889-000-00-LU	NW	Type 3 procedure Land Use Review DZM - Design Review w/ Modifications	Recorded	8/16/16
2016-167618-000-00-PR	NW QUIMBY ST	Site Without Buildings Public Registry Lot Confirmation	Completed	5/26/16

Related Permits

Application Number	Address	Type	Status	Updated
2016-186273-000-00-ET	1650 NW 13TH AVE	Commercial/Multifamily Electrical Permit Addition/Alteration/Replacement	VOID	7/31/17
2016-186263-000-00-SG	1650 NW 13TH AVE	Projecting Sign Sign Permit New Sign/Awning	Issued	7/19/16
2016-186241-000-00-SG	1650 NW 13TH AVE	Wall/Fascia Sign Sign Permit New Sign/Awning	Issued	7/19/16
2016-186220-000-00-SG	1650 NW 13TH AVE	Sign on Existing Awning Sign Permit New Sign/Awning	Issued	7/19/16
2015-220781-000-00-FS	1650 NW 13TH AVE	Fire Alarms Fire Systems Permit New	Final	5/4/16
2015-208946-000-00-MT	1650 NW 13TH AVE	Commercial/Multifamily Mechanical Permit Addition/Alteration/Replace (MT)	Final	5/6/16
2015-144578-000-00-PT	1650 NW 13TH AVE	Commercial/Multifamily Plumbing Permit New Construction	VOID	7/31/17

Application Number	Address	Type	Status	Updated
2015-144575-000-00-UC	1650 NW 13TH AVE	Commercial BES - Sewer Connection Plumbing Permit New Connection	Final	5/8/17
2015-144446-000-00-UC	1650 NW 13TH AVE	Commercial BES - Sewer Connection Plumbing Permit New Connection	Final	5/8/17
2015-144328-000-00-UC	1650 NW 13TH AVE	Commercial BES - Sewer Connection Plumbing Permit New Connection	Final	5/8/17
2015-134222-000-00-FS	1650 NW 13TH AVE	Fire Alarms Fire Systems Permit New	Final	6/15/16
2014-254709-000-00-PT	1650 NW 13TH AVE	Commercial/Multifamily Plumbing Permit New Construction	Final	4/27/16
2014-235494-000-00-ET	1650 NW 13TH AVE	Commercial/Multifamily Electrical Permit New Construction	Final	5/24/16
2014-169697-000-00-TR	1650 NW 13TH AVE	Encroachment Transportation Review	Issued	7/28/14
2014-138582-000-00-CO	1350 NW SAVIER ST	Apartments/Condos (3 or more units) Commercial Building Permit New Construction	Final	3/29/17
2014-137049-000-00-MT	1650 NW 13TH AVE	Commercial/Multifamily Mechanical Permit New Construction	Final	5/23/16
2014-137048-000-00-CO	1650 NW 13TH AVE	Apartments/Condos (3 or more units) Commercial Building Permit New Construction	Final	7/8/16
2013-228646-000-00-WE	NW 13TH AVE	BES (Separate) Public Works, Environmental Services Both Sanitary & Storm	Close-Out - WE	8/9/16
2013-181035-000-00-PW	NW 13TH AVE	PW Appeals Administrative Public Works Appeal	Denied - PW Appeals	8/1/13
2013-161967-000-00-WI	NW 13TH AVE	Basic guidance meeting Public Works Inquiry	Completed	6/18/13
2012-218235-000-00-EA	NW 13TH AVE	DA - Design Advice Request Early Assistance Other	Completed	4/3/13
2011-186201-000-00-TR	1350 NW SAVIER ST	Encroachment Transportation Review	Issued	1/24/14
2011-177487-000-00-CO	1350 NW SAVIER ST	Assembly Commercial Building Permit New Construction	Final	11/15/11



NW QUIMBY ST

PORTLAND, OR 97209

ZONING & DISTRICTS

Zoning

Base	EX - Central Employment
Overlay	d - Design
Base Overlay Combination	EXd
Comp Plan	EX - Central Employment
Comp Plan Overlay	n/a
Historic District	n/a
Conservation District	n/a
Plan District	CC - Central City Pearl
Natural Resource Management District	n/a
Quarter Section(s)	2828 2829 2928 2929
Major Public Trail Designation	No

View Detailed Zoning Map

Historic Resource

n/a

Urban Renewal Area

Property Eligible	Yes
District	River District

Business District(s)

Name	Pearl District
Address	PO Box 6767 Portland, OR 97228
Website	http://explorethepearl.com/

Development Areas

Combined Opportunity Map Score	5
Enterprise and E-Commerce Zone	No
East Portland Enterprise Zone	No
HOLTE Eligibity Areas for 2 Bedroom	Yes
Wellhead Protection Area	No
Low-Moderate Income Neighborhood	Yes
Main Street Area	No
Neighborhood Stabilization Program 1 Target Area	Yes
Neighborhood Stabilization Program 3 Target Area	No
Neighborhood Prosperity Initiative Investment Area	No
N/NE Neighborhood Housing Plan Area	No

Land Use Review Cases

ID	Permit	Number	Name	Year	Category	Created
85640	3896256	245834	IQ 16-245834 FAR	16	IQ	2016-10-26 09:09:18.0
74324	3816908	167618	PR 16-167618 LC	16	PR	2016-05-06 12:56:08.0
72735	3783665	134889	LU 16-134889 DZM	16	LU	2016-04-08 13:30:38.0
53351	3299373	139762	LU 13-139762 DZM AD	13	LU	2013-07-01 10:04:19.0
53284	3328074	168152	PR 13-168152 LC	13	PR	2013-06-19 17:00:06.0
52640	2970084	154919	PR 10-154919 LS	10	PR	2013-02-08 11:40:55.0
53810	2970079	154914	PR 10-154914 PLA	10	PR	2013-02-05 10:21:48.0
52616	3146734	108914	PR 12-108914 LS	12	PR	2013-01-18 11:06:57.0
52477	3257133	218235	EA 12-218235 DAR	12	EA	2012-12-26 15:25:03.0
51596	3218971	180268	EA 12-180268	12	EA	2012-10-12 14:41:46.0
49596		194919	PR 10-194919 LS	10	PR	2010-08-13 12:00:06.0
50379	2959214	144127	EA 10-144127 APPT	10	EA	2010-06-09 13:17:40.0
44310	2542277	103275	LU 06-103275	6	LU	2009-03-31 11:54:31.0
3843		173572	PC 05-173572	5	PC	2009-03-31 11:54:31.0
1264		00798	LUR 92-00798	92	LUR	2009-03-31 11:54:31.0
396			ZC 4684		ZC	2009-03-31 11:54:31.0
1435			ZC 7948		ZC	2009-03-31 11:54:31.0
43811	2537005	181234	LU 05-181234	5	LU	2009-03-31 11:54:31.0
2569		00542	FP 99-542	99		2009-03-31 11:54:31.0

ID	Permit	Number	Name	Year	Category	Created
1146		00542	LUR 99-00542	99	LUR	2009-03-31 11:54:31.0
1400		00819	LUR 93-00819	93	LUR	2009-03-31 11:54:31.0
1450		00541	LUR 99-00541	99	LUR	2009-03-31 11:54:31.0
1184			DZ 91-89	89	DZ	2009-03-31 11:54:31.0

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY

S.E.1/4 S.E.1/4 SEC.28 T.1N. R.1E. W.M.
MULTNOMAH COUNTY
1" = 100'

1N 1E 28DD
PORTLAND

CANCELLED NO.

NOT USED

1/16 COR.

1/16 COR.

G.L.O. MEANDER LINE

EIL WILLIAM BLACKISTONE D.L.C. 53

N.W. FRONT AVE.

S.L. TERMINAL BLK. BEING A PART OF WATSON'S ADD.

SEE MAP 1N 1E 28D

CONCRETE SEAWALL S42°41'05"E 232.58'

S43°09'39"E 64.46'

S44°30'32"E 30.96'

U.S.E. HARBOR LINE MAY 1906

PUBLIC TRAIL EASE 2017-034313

N41°00'29"E 343.7'

S41°09'58"W 253.58'

PARCEL UNDER BRIDGE

SEE ORIG. 1-A-16-22 EASE: E-1-66 BK. 682 PG. 923

IN ST. 8-10-65 BK. 1508, PG. 489

S41°09'58"W 253.58'

N41°00'29"E 343.7'

S44°30'32"E 30.96'

S41°42'43"E 111.15'

S14°42'43"E 21.92'

S65°45'01"E 36.12'

S24°41'51"E 25.54'

473.60' M.L.

S48°30'29"E 394.17'

S46°58'15"E 172.70'

U.S.E. HARBOR LINE MAY 1906

LEFT BANK

WILLAMETTE RIVER

P.P.

2019-028

401

402

N.W. 17TH AVE.

(60')

N00°03'56"E 336.62'

R=1165.00' L=222.62'

29 30 31

50' 50'

3500

SEE DETAIL NO.1

VAC. 7-14-22 ORD. 41380

N89°56'04"E 100'

N89°56'04"W

2400 ASSESSED BY D.O.R.

2400

2300 ASSESSED BY D.O.R.

2300

54.12'

N.W. UPSHUR ST.

2200 ASSESSED BY D.O.R.

2100 SEE DETAIL MAP

2000 SEE DETAIL MAP

STA. 36+83.5

R=1165.00'

R=1353.50'

L=163.54'

128.24'

R=318.62'

L=281.44'

R=576.50'

L=71.41'

R=1165.00'

L=222.62'

N89°56'04"W BY DEED

19.17'

77.93'

38.10'

N.W. (T) THURMAN ST.

19

18

17

16

ELY/L 1992-2522-655

VAC. 7-14-22 ORD. 41380

VAC. 4-16-70

EASE: 4-16-70 BK. 757 PG. 1

EASE: 4-16-70 BK. 4686 PG. 1

EASE: 4-16-70 BK. 4686 PG. 1

2600

2500

500

713

14

53

15

259

260

709

712

246

245

244

708

2019-028

401

2700

12

2800

1900

1800

13

S/L WILLIAM BLACKISTONE – D.L.C. 53

N/L JOHN H. COUCH D.L.C. 52

1700

N.W. (S) SAVIER ST.

(N.W. SAVIER ST.)

ORD. 41380 VAC. 7-14-22

IN ST. 2014-044371

S88°32'49"W 106.81'

90000

ABIGAIL CONDOMINIUM

S88°32'49"W 205.16'

PUBLIC WALKWAY EASEMENT 2020-145873

S88°32'49"W 17.44'

(N.W. RALEIGH ST.)

VAC. ORD. 41380

VAC. ORD. 15470

N89°56'04"W 260.00'

N.W. 16TH AVE.

N.W. 15TH AVE. (14TH)

N.W. 14TH AVE. (13TH)

N.W. 13TH AVE. (12TH)

N.W. 12TH AVE. (11TH)

N.W. 11TH AVE. (10TH)

(N.W. 13TH AVE.)

(N.W. 12TH AVE.)

PARKWAY

(S.W. FRONT AVE.)

NAITO

N.W.

ST.

ADD

WATSONS

COUCHS

3600

1600

1500

4

1400

1300

257

3000

2900

5

256

800

700

3

711

258

700

3400

3300

249

3200

3100

1200

1100

248

900

247

246

245

244

1/16 COR.

N.W. (R) RALEIGH ST.

N.W. (Q) QUIMBY ST.

SEE MAP 1N 1E 28DC

U.S. HWY I-30

U.S. HWY I-405

WEST FREMONT EXCHANGE

SEE 1N1E 34BB 2500

3/26/2021

1N 1E 28DD
PORTLAND

NV5

Delivering Solutions
Improving Lives