NEIL GOLDSCHMIDT
GOVERNOR

Department of Environmental Quality

811 SW SIXTH AVENUE, PORTLAND, OREGON 97204-1390 PHONE (503) 229-5696

March 6, 1990

Mr. Roy Varney
Utilities Maintenance Supervisor
12451 SE Fuller Road
Milwaukie, Oregon 97222-1290

Re: UST-Clackamas County
N. Clackamas School District 12
Trans Center

Dear Mr. Varney:

We have completed our review of Hahn and Associates' report, dated January 25, 1990, concerning the underground storage tank decommissioning and contaminated soil cleanup conducted at the N. Clackamas School Districts Transportation Center. Since this information indicates that the decommissioning and cleanup met our current criteria, no further action is required at this time.

This decision is a result of our evaluation and judgement based on the regulations and facts as we now understand them, including:

1: Two underground storage tanks were removed from the site and disposed of in a manner approved of by the Department.

2: Approximately 330 cubic yards of gasoline and diesel contaminated soil were removed from the site and taken to Hillsboro Landfill for disposal. The diesel contamination apparently resulted from spillage from an above ground tank removed approximately 15 years ago.

3: Confirmation soil sample analyses did not detect any contamination remaining at the site above the most stringent cleanup level for soils of 40 parts per million total petroleum hydrocarbons.

4: No groundwater was encountered in the excavation.

Information concerning the tank and contaminated soil removals should be maintained with the permanent facility records. We remind you that the current investigation applies only to the leaking underground storage tank systems and in no way transfers any liability to the State of Oregon.

Although we agree that the current conditions at the site do not appear to pose an environmental threat, the responsibility for environmental evaluation, reporting, and cleanup rests with the landowners.

If you have any questions regarding this matter, please contact me at 229-6923.

Sincerely,

Andree Pollock

Andree Pollock
UST Cleanup Specialist
Northwest Region

cc: Environmental Cleanup Division, UST Cleanup Section
Hahn and Associates
434 NW 6th Avenue, Suite 203
Portland, Oregon 97209
Attn: David Samples

NORTH CLACKAMAS SCHOOL DISTRICT 12
PHYSICAL PLANT DEPARTMENT

12451 S.E. Fuller Road, Milwaukie, Oregon 97222-1290 (503) 653-3645

DIRECTOR
David F. Church

OPERATIONS SUPERVISOR
Garry M. Kryszak

February 27, 1990

Oregon Department of Environmental Quality
ATTN: Mr. Garner
811 Southwest Sixth Avenue
Portlnad, OR 97204

Dear Mr. Garner:

Enclosed is a copy of the report detailing a project involving the removal two oil tanks and 230 yards of soil, soil sampling, and the re-installation of a single fuel tank. Hahn and Associate's report should explain the project and answer any questions; however, if you have any comments or concerns, please give me a call.

Sincerely,

Roy T. Varney
Utilities Maintenance Supervisor

dlp
enc.

FAX TRANSMITTAL FORM

DATE: November 16, 1989 No. of Pages (incl. FAX form): 2

TO: Mr. [redacted] NWR FROM: Hahn and Associates, Inc.

COMPANY: Department of Environmental Quality PROJECT #: 1258.NCDIRT

Portland, OR

FAX #: 229-5284

These documents have been transmitted from:

HAHN AND ASSOCIATES, INC. (503)223-4178 FAX
Portland, Oregon, USA (503)796-0717 OFFICE

If you experience problems in receiving any pages, please call the office number.

TIME SENT: 4:55 pm PST

TIME RECEIVED:

(6/89)

HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL MANAGEMENT

November 15, 1988

Mr. Charles Gray
Northwest Region
Department of Environmental Quality
811 SW 6th Avenue
Portland, Oregon 97204

HAI Project # 1258

SUBJECT: Disposal of Diesel Contaminated Soil from North Clackamas School District Transportation Yard

Dear Mr. Gray:

This letter and laboratory results are submitted for your review in order to gain permission to dispose of approximately 10 cubic yards of diesel-contaminated soil at the Hillsboro Solid Waste Facility. The contaminated soil was discovered during an underground storage tank (UST) decommissioning project at the North Clackamas School District Transportation Yard. As a point of interest, the total petroleum hydrocarbon (TPH) reading was 950 ppm from a sample taken from the worst apparently contaminated area. The TPH "fingerprint" indicated that the petroleum product was diesel fuel at a concentration of 1,650 ppm.

Your speedy response via FAX (222-4178) to this request would be appreciated. If there are any questions or concerns, please contact the undersigned. Thank you for your assistance in this matter.

Sincerely,

David L. Snyder
Geologist

434 NW SIXTH AVENUE, SUITE 205 • PORTLAND, OREGON 97209-3600
503/796-0717 OFFICE • 503/222-4178 FAX

pacific environmental laboratory inc

8401 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

TELEPHONE USE REPORT

CALL FROM/TO: Roy Varney

COMPANY/TITLE: N. Clackamas School Dist.

PHONE NO.: 653-3645

CITY: _____ COUNTY: _____

N. C. S. D. #12 - Trans Center

DATE: _____

TIME: _____

(Circle for filing)

AQ	Asbestos
WQ	OSS
SW	HW
General	Spill

SUMMARY OF CALL:

2-9-90 3:11 Cleanup not done
Just got repat from Hahn + Ass.
in Review. Probably send next week.

ANP
Signature

RB3972 (2/86)

89-223
030690

Sent NWR 3/27

NOTICE OF UNDERGROUND STORAGE TANK PERMANENT DECOMMISSIONING

Facility

Name N. Clackamas School Dist 12
Address 12451 S.E. Fuller Road
Milwaukie, Oregon 97222-1250

Phone 503·653·3617
Facility ID Number 5545

Tank Owner

Name SAME
Address

Phone

Permanent Decommissioning Performed By:

Company Konell Construction Phone 668·3516
Scheduled Date for Permanent Decommissioning 4·20·89
Method to be used: Removal ✓ In-Place Fill Material

Tanks to be Decommissioned

Tank ID#	Tank Age	Tank Size	Last Product Stored
3	UNKNOWN	10,000	GASOLINE/ DIESEL

Are the decommissioned tanks to be replaced by new underground storage tanks? Yes ☐ No ☒
If yes, please submit a new permit application containing information on the new tanks.

Where and how will the old tanks be disposed?

Scrap	Name SCHNITZER STEEL	Location	PORTLAND, OR
Landfill	Name	Location	
Stored	Name	Location	
Other	Comment		

Signature Gary Alderman Date 3·24·89
KONELL CONST./ESTIMATOR

Return Completed Form To:

Department of Environmental Quality
UST Program - Decommissioning Notice
811 SW Sixth Ave.
Portland, Oregon 97204

For Information: (503) 229-5559 or Toll Free in Oregon 1-800-452-4011

Department of Environmental Quality
RECEIVED
MAR 27 1989
Environmental Cleanup Division

LUST FORM

INCIDENT INFORMATION

LUST Incident Nbr: _____ LUST Log Nbr: 03-89-223 UST Facility ID: 5545

Date Received: 10/12/89 Received By: L G Garner Emergency Resp Taken: Y N

Tank Identification: File Name: N. Clackamas School Dist #12 - Transportation Center.

Street: 13801 SE Webster Rd

City: Milwaukie Zip: 97267

County: Clack Phone: _____

Incident Comments: _____

CONTACT & MAIL TYPES

Reported By:	LUST Contact:	Responsible Party:
Name: Roy Varney	Name:	Name:
Company: N Clack School Dist	Company:	Company: N Clack School Dist
Street:	Street:	Street: 12451 SE Fuller Rd
City: Zip:	City: Zip:	City: Milwaukie Zip: 97222
State: Phone: 653-3645	State: Phone:	State: Phone:

SITE ASSESSMENT

LUST Incident Nbr: (XXXXXXXXXXXXX)

Date Investigated: 10/12/89 Investigated By: L G Garner

Release Exists: (Y) N (Circle) Confirmation Method: A)Staff B)Lab:DEQ (C)Lab:RP D)Lab:Other E)RP F)Other (Circle)

Cleanup Necessary: Y N (Circle) Regulated Tank: (Y) N (Circle) From older above Ground Tanks Exposure Assessment: Y N (Circle)

Off-Site Migration: Y N ? (Circle) Estimated Gallons Released: _____ Priority: _____

Discovery Date: 10/4/89

How Discovered: (Circle)
A)Routine Monitoring B)Inventory Control C)Decommissioning D)Site Assessment
E)Complaint F)Tank Test (G)Other – Pipe trenching

Material Released: (Circle)
A)Unleaded Gasoline B)Leaded Gasoline C)Misc. Gasoline
(D)Diesel E)Fuel Oil F)Waste Oil
G)Lubricant H)Solvent I)Bunker Fuel
J)Other Pet. Dist. K)Chemical L)Unknown

Source of Release: (Circle)
A)Tank Leak B)Pipe Leak C)Overfill (D)Surface Spill – from old tanks
E)Pump/Valve Leak F)Other G)Unknown

Impacts: (Circle)					
Soil	(Y)	N	%	?
Groundwater	Y	(N)	%	?
Surface Water	Y	(N)	%	?
Drinking Water	Y	(N)	%	?
Facility (Vapor)	Y	(N)	%	?
Facility (Free Product)	Y	(N)	%	?

Site Assessment Comments: _____

SITE MANAGEMENT

LUST Incident Nbr: (XXXXXXXXXXXXX)

Date Released Stopped: 10/12/89

Cleanup Activity: Start Date: 10/12/89 Under Control Date: 10/12/89

End Date: 12/29/90 Contractor Name: Hahn + Assoc / Tom New Cons L.

Cleanup Guideline: (Matrix) C.A.P. (Circle) Cleanup Lead: (RP) SLW/TF SLW/oTF (Circle)

Free Product Disposal:		Soil Disposal:	
Est. Gallons:	N/A	Est. Cu/Yds:	330
Resp. Party:		Resp. Party:	Hahn + Assoc.
Disposal Location:		Disposal Location:	Hillsboro Landf. II
Removal Date:		Removal Date:	12/29/89

Enforcement Action: Y N (Circle)

Cost Recovery Initiated: Y N (Circle) Source of Cost Recovery: Pct. R.P.: _____ Pct. SLW/TF: _____ Pct. SLW/oTF: _____

Estimations: Cost of Cleanup: _____ Staff Time On Project: _____

Site Management Comments: _____

[Version 102]

03-89-223
1-25-90

PETROLEUM-CONTAMINATED SOIL REMOVAL

AND

VERIFICATION SAMPLING

North Clackamas School District Transportation Yard
Milwaukie, Oregon

January 25, 1990

Prepared for:

North Clackamas School District
Milwaukie, Oregon

Prepared by:

Hahn and Associates, Inc.
Portland, Oregon

PETROLEUM-CONTAMINATED SOIL REMOVAL

AND

VERIFICATION SAMPLING

North Clackamas School District Transportation Yard
Milwaukie, Oregon

January 25, 1990

Prepared for:

North Clackamas School District
Milwaukie, Oregon

Prepared by:

Hahn and Associates, Inc.
Portland, Oregon

TABLE OF CONTENTS

INTRODUCTION

The objective of the soil excavation underaken at the North Clackamas School District Transportation Yard in November and December 1989 was the removal of diesel-contaminated soil that was discovered during the decommissioning of two underground storage tanks (USTs) and the installation of one new UST. The diesel fuel apparently resulted from the use of an above ground storage tank that had been removed at least 15 years before.

Laboratory analytical results from investigatory soil sampling by Hahn and Associates, Inc. (HAI) indicated levels of contamination that exceeded the Oregon Department of Environmental Quality (DEQ) Level 2 petroleum-contaminated soil cleanup standard applicable to the site.

Initial excavation activity at the subject site was conducted on November 21 and 22, 1989. Contaminated soil was removed and transported for disposal at the Hillsboro Landfill, Hillsboro, Oregon. Soil sampling conducted on November 22, 1989 indicated the presence of additional soil contamination. An additional contaminated soil was removed on December 29, 1989 and was followed by verification sampling. The analytical result from the verification sampling indicated that further excavation activity did not appear to be necessary.

SOIL SAMPLING AND CLEANUP ACTIVITIES

On October 16, 1989, Ms. Randi Wexler of Hahn and Associates, Inc. (HAI) obtained one investigatory soil sample from the southeast corner of the underground storage tank (UST) excavation area (Figure 1). The sample was sent to Pacific Environmental Laboratory (PEL) of Beaverton, Oregon for analyses for total petroleum hydrocarbons (TPH) and for a hydrocarbon identification scan (HCID). The analytical result for the sample was 950 parts per million (ppm) for TPH and the HCID test indicated the contamination to be diesel fuel (Table 1) (Appendix A).

A DEQ Soil Cleanup Matrix Worksheet was completed for the project site (Appendix B) and the site was found to fall within a Level 2 clean up standard. This standard indicates that that any contamination above 500 ppm for TPH (diesel) needed to be removed. Removal of the contaminated soil from the tank pit area was undertaken under the supervision of HAI as directed by Mr. Roy Varney of the North Clackamas School District. The Tom New Construction Company (TNC) performed excavatory and transportation activities for the District.

On November 21, 1989 excavation of the contaminated soil adjacent to the fuel pump shed was undertaken. Mr. David Samples was the site manager for HAI. The fuel pump had been removed and the shed was demolished during excavation. It was evident from visual indicators such as soil discoloration and the strong odor of fuel, that the area of diesel contamination was more extensive than originally estimated and would require substantial soil removal. Readings from a hand held gas detector (Gastech Model 1314) of 500 ppm of hydrocarbon vapors was noted during the excavation. This value diminished quickly after the soil from the pump shed area was removed, but occasional readings of 100 to 300 ppm were encountered at various locations during the excavation.

Excavation work was conducted on all sides of the tank pit and beneath the concrete tank anchor slab at the bottom of the pit. A total of 220 cubic yards of contaminated soil was removed from the site on November 21, 1989 and was taken to the Hillsboro Landfill, Hillsboro, Oregon. A permit for the disposal was obtained through the DEQ (Appendix C). Groundwater was not encountered during the excavation activities at the subject site.

Three additional investigatory soil samples (#1, #2, and #3) were taken in the excavation pit on November 21, 1989 (Figure 1). Sample #1 was from the north wall, sample #2 was from the floor of the pit, and sample #3 was from the south wall. These samples were taken to PEL and analyzed for TPH (Appendix A). Analytical results were reported to be "non-detected" for samples #1 and #3, and 30 ppm for #2 (Table 2).

Excavation work continued on November 22, 1989 at the site in the continued effort to remove soil that appeared to be contaminated as indicated by soil discoloration, a persistent hydrocarbon odor and hand held gas detector readings of up to 100 ppm. Soil

was removed predominantly in the northwest and southeast corners and along the excavation bottom to an average depth of 20 feet.

During these excavation activities, a fuel pipeline was uncovered along the east wall of the pit that was surrounded by sand and gravel that had the odor of gasoline. The pipe was noted to have fuel in it . The pipe was bent back and taped off to prevent leakage of the fuel to the surrounding soils.

After approximately an additional 110 cubic yards of soil had been removed and it was noted that soil discoloration had diminished substantially, excavation activity was halted until additional soil test results were available.

VERIFICATION SAMPLING AND ANALYSES

Three verification soil samples were taken on November 22, 1989 from the excavation area and taken to PEL for analyses for TPH. Sample #4 was from the face of the north wall, #5 was taken from the southeast corner, and #6 was from the sand and gravel surrounding the fuel line that was detected in the east wall (Figure 1). Analytical results indicated 16 ppm of TPH for sample #4, 12 ppm for #5 and 3,500 ppm for #6. Due to the high TPH value for sample #6, a HCID scan was run on it to determine the type of petroleum contamination. The results indicated that the contamination was a petroleum product with a carbon range of C8 to C14, indicating that the contaminant was diesel fuel.

The soil around the fuel pipe was excavated on December 29, 1989 and a verification sample taken (verification sample #1) and analyzed for TPH. The analytical result was reported to be "non-detected". The results for this verification sample, and for samples#4 and #5 indicated that the soil contamination remaining at the project site was below the DEQ Level 2 cleanup standard of 500 ppm. The excavation pit was subsequently filled in with imported soil, compacted and graded over.

SUMMARY

Following the decommissioning by removal of two 10,000 gallon USTs at the North Clackamas School District Transportation Yard in August, 1989, it was apparent that petroleum contamination of the soil was present in the area. Soil sampling and analyses for total petroleum hydrocarbons (TPH) indicated that the contamination level exceeded the Oregon Department of Environmental Quality Level 2 Cleanup Standard maximum of 500 ppm. Excavation of contaminated soils was conducted on November 21 and 22, 1989. A approximate total of 330 cubic yards of contaminated soil was excavated and disposed of at the Hillsboro Landfill, Hillsboro, Oregon.

Additional sampling and analyses indicated that further excavation at the facility appeared to be necessary due to the presence of diesel contaminated gravel and sand that surrounded a fuel pipeline. This excavation work was done on December 29, 1989. Verification sampling, which followed, indicated that residual contamination at the site was below the Level 2 standard. The excavation was then backfilled with clean imported soil and the site paved.

DISCLAIMER

The data presented in this report was collected, analyzed and interpreted following the standards of care, skill and diligence ordinarily provided by a professional in the performance of similar services as of the time the services were performed. This report is based solely upon an inspection of the property and its surroundings, upon physical sampling and analytical activities, upon available historical records and governmental agency files and upon interviews of parties knowledgeable of the property and its history.

TABLE 1

Investigatory and Verification Soil Analytical Results

Petroleum-Contaminated Soil Removal

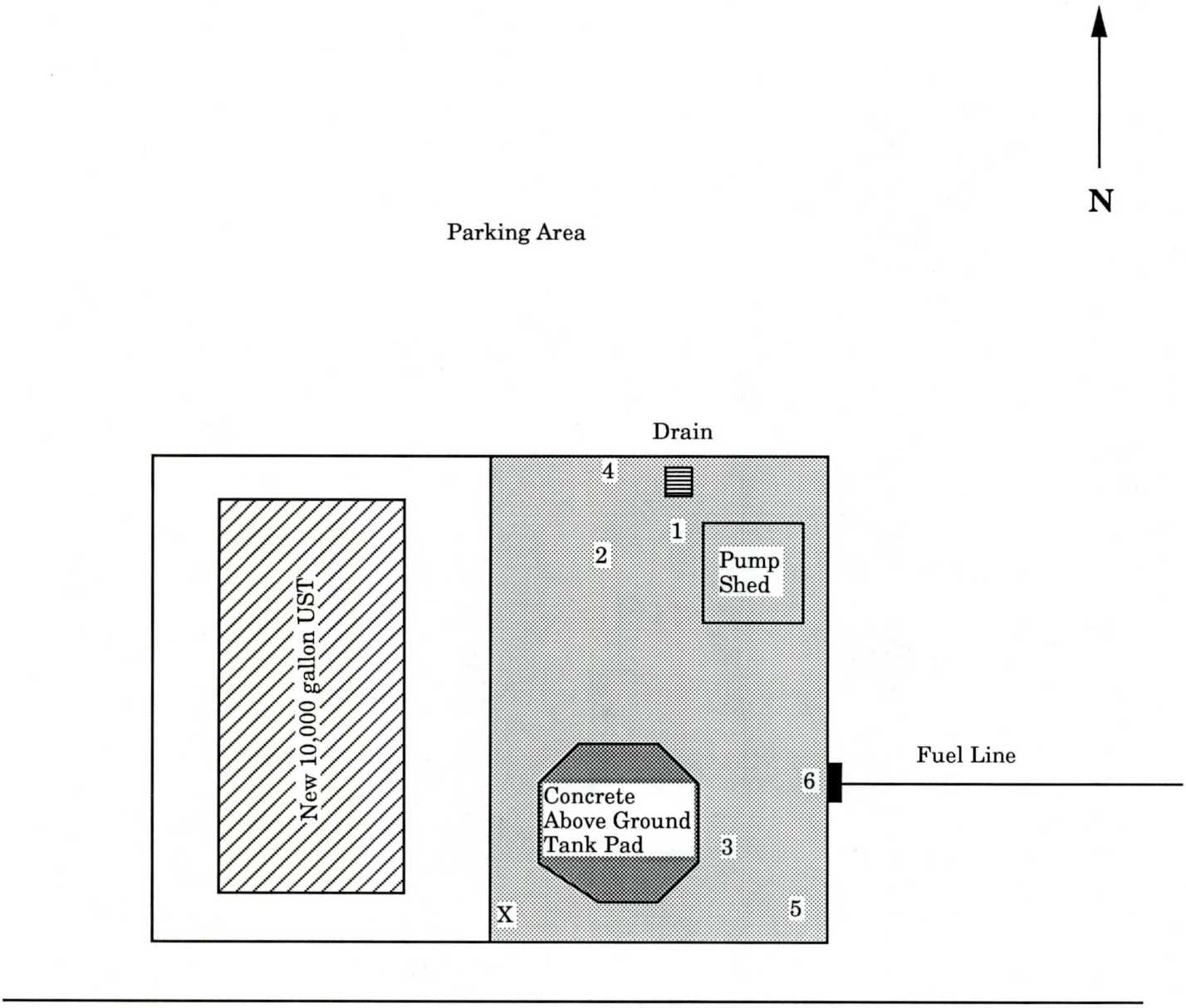
North Clackamas School District Transportation Yard
Milwaukie, Oregon

(1/22/90)

Sample #	TPH
South Soil # 1	950
# 1	ND
# 2	30
# 3	ND
# 4	16
# 5	12
# 6	3,500
Verification Sample #1	ND

Sample #	HCID
# 6	1,500 *

Notes:
TPH = total petroleum hydrocarbons
HCID = hydrocarbon identification scan
* C8-C14 hydrocarbon chain, likely diesel
all results reported in parts per million (ppm)
ND = not detected
detection limit = 5 ppm TPH



Area of visible contamination

1,2,3 - Soil samples 11/21/89
4,5,6 - Soil samples 11/22/89
X - Soil sample 10/16/89

Figure 1
Site Map
Above Ground Storage Tank Contaminated Soil Excavation area
N. Clackamas School District Transportation Yard
Milwaukie, Oregon
November 1989

Not to Scale
(HAI 1/90)

Photograph # 1: View to the east of project site prior to excavation. Note fuel pump shed.

Photograph # 2: Contaminated soil in northeast corner of pit adjacent to pump shed.

Photograph # 3: Contaminated soil beneath drainage grill.

Photograph # 4: View to the east of excavation pit. Note fuel line to the right.

Photograph # 5: Southeastern corner of excavation area.

Photograph # 6: Fuel line being sealed by Mr. Norm Davis.

APPENDIX A

DEQ Soil Cleanup Level Decision Matrix Worksheet

APPENDIX A

DEQ SOIL CLEANUP LEVEL DECISION MATRIX WORKSHEET

North Clackamas School District
Milwaukie, Oregon
(10/89)

INTRODUCTION: This worksheet is intended to be used to determine the soil cleanup standard for the remediation of motor fuel and heating oil releases from underground storage tanks. Circle the appropriate depth and corresponding point value below it:

EVALUATION PARAMETERS:

1. DEPTH TO GROUNDWATER: Vertical distance (to nearest foot) from the surface of the ground to the highest seasonal elevation of the saturated zone.

Depth:	>100'	51-100'	**25-50'**	<25'	POINTS: **7**
Points:	1	4	**7**	10	

Source: Field observation.

2. MEAN ANNUAL PRECIPITATION: From nearest appropriate weather station.

Inches:	<20"	**20-40"**	>40"	POINTS: **5**
Points:	1	**5**	10	

Source: Portland International Airport Weather Station

3.NATIVE SOIL TYPE:

Permeability:	**Low**	Moderate	High	POINTS: **1**
Points:	**1**	5	10	

Source: Field Observations.

4. SENSITIVITY TO THE UPPERMOST AQUIFER:

Sensitivity:	Unusable	**Potable not used**	Potable	Sole Source
Points:	1	**4**	7	10

Source: POINTS: **4**

5. POTENTIAL RECEPTORS: Distance to nearest well that draws water from aquifer of concern and the number of people at risk including all people within 3 mile radius of site who regularly enter the area.

Nearest Well:	<1/2 mile	**1/2 - 3 miles**	>3 mile
Description:	Near	**Medium**	Far

Number of People:	**>3,000**	100-3,000	<100	POINTS: **10**
Description:	**Many**	Medium	Few	

TOTAL POINTS: 27

Level 2 Cleanup Standard:
Diesel TPH (Total Petroleum Hydrocarbons) < 500 ppm

DEQ NUMERIC SOIL CLEANUP STANDARDS

North Clackamas School District
Milwaukie, Oregon

(10/89)

	Level 1	Level 2	Level 3
TPH (Gasoline)	40 ppm	80 ppm	130 ppm
TPH (Diesel)	100 ppm	**500 ppm**	1,000 ppm

If the Matrix Score evaluated is:

A) Greater than 40, the site must be cleaned up to at least the Level 1 standard

B) From 25 to 40, inclusive, the site must be cleaned up to at least Level 2 standards

C) Less than 25, the site must be cleaned up to at least the Level 3 standard

PACIFIC environmental LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

October 17, 1989

Hahn & Associates
434 NW 6th Ave., Suite 203
Portland, OR 97209

Attn: Randi Wexler

Re: PEL #89-1276

Enclosed is the lab report for your job #1235 NCSUST which was received in our lab on October 16, 1989.

I. Sample Description

One Soil Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Kim Chiusolo
Chemist

PACIFIC environmental laboratory inc.

PEL REPORT NUMBER: 89-1278
CLIENT: Hahn & Associates
JOB REFERENCE: 1235 NCSUST
DATE: October 17, 1989
ITEM: One Soil Sample

METHOD: TPH per EPA 418.1
Results in mg/kg (ppm)

Sample ID	TPH
South Soil #1	950
Lab Blank	ND
Detection Limit	5

METHOD: Hydrocarbon I.D. by GC/FID
Results in mg/kg (ppm)

Sample ID	Carbon Range	Hydrocarbon	Detection Limit
South Soil #1	C_{12}-C_{22}	1000*	20

*Similar to #2 Diesel

PEL# 07-1616

PACIFIC ANALYTICAL LABORATORY inc

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0650

HAHN AND ASSOCIATES, INC.
434 NW 6TH AVENUE - SUITE 203
PORTLAND, OREGON 97209-3600
(503) 796-0717

CHAIN OF CUSTODY RECORD

RUSH YES [X] NO [ ]

Proj No.	Project Name
1235	NCSUST
P.O. Number	Sampler: Randi Wexler

Sta. No.	Date	Time	Comp.	Grab	Station Location	No. of Containers	BTEX 602/8020	BTEX, VPH 3810 Modified	Gasoline 8015 Modified	TPH (IR) 418.1	Oil & Grease 413.1	EP TOX Cd,Cr,Pb only	EP TOX Metals (8)	PCB's 608/8080	Chlor. Solv. 601/8010	Flashpoint 1010	HCID			
	10-16	10:30	S		South Soil #1	1				X							X			

ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIPT

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
Randi Wexler	10/16/89 10:30	[signature]			
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
	10/16/89 1330	[signature]			

PACIFIC environmental LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

November 27, 1989

Hahn & Associates
434 NW 6th Ave. Suite 203
Portland, OR 97209

Attn: David Samples

Re: PEL #89-1599

Enclosed is the lab report for your job #1258 which was received in our lab on November 21, 1989.

I. Sample Description

Three Soil Samples

The samples were received under a chain of custody.

The samples were not received in containers consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis.

Compounds not detected are listed under results as ND.

Sincerely,

Philip Nerenberg
President

Linnet O'Hanlon
Chemist

PACIFIC environmental laboratory inc.

PEL REPORT NUMBER: 89-1599
CLIENT: Hahn & Associates
JOB REFERENCE: 1258
DATE: November 27, 1989
ITEMS: Three Soil Samples

METHOD: TPH per EPA 418.1
Results in mg/kg (ppm)

Sample I.D.	TPH
#1	ND
#2	30
#3	ND
Lab Blank	ND
Detection Limit	5

PACIFIC environmental LABORATORY INC.

Hahn

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660

CHAIN OF CUSTODY RECORD

RUSH YES ☑ NO ☐

Proj No.	Project Name
1254	NC Dirt
P.O. Number	Sampler: David Samples

Sta. No.	Date	Time	Comp.	Grab	Station Location	No. of Containers	BTEX 602/8020	BTEX, VPH 3810 Modified	Gasoline 8015	TPH (IR) 418.1	Oil & Grease 413.1	EP TOX Cd,Cr,Pb only	EP TOX Metals (8)	PCB's 608/8080	Chlor. Solv. 601/8010	Flashpoint 1010				
1	11/21				(1) NE - under Jump															
2	11/21				2 - NW - Floor															
3	11/71				3 - South Floor															

ND / 30 / ND

ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIPT

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
D. J. Samples	11/21/89 5:30pm				
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received for Laboratory by: (Signature)	Remarks		
	11/21/89 3:30pm	Marietta Henderson	PEL #89-1599		

PACIFIC environmental LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

December 1, 1989

Hahn & Associates
434 N.W. 6th Ave.
Suite 203
Portland, OR 97209

Attn: David Samples

Re: PEL #89-1610

Enclosed is the lab report for your job #1258 which was received in our lab on November 22, 1989.

I. Sample Description

Three Soil Samples

The samples were received under a chain of custody.

The samples were not received in containers consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Linnet O'Hanlon
Chemist

PEL REPORT NUMBER: 89-1610
CLIENT: Hahn & Associates
JOB REFERENCE: 1258
DATE: December 1, 1989
ITEMS: Three Soil Samples

METHOD: TPH per EPA 418.1
Results in mg/kg (ppm)

Sample I.D.	TPH
4	16
5	12
6	3,500 pp
Lab Blank	ND
Detection Limit	5

ANALYTICAL LABORATORY inc
9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0650

434 NW 6TH AVENUE - SUITE 203
PORTLAND, OREGON 97209-3600
(503) 796-0717

RUSH

CHAIN OF CUSTODY RECORD

YES ☐ NO ☑

Proj No.	Project Name
1258	NC Dirt
P.O. Number	Sampler: David Samples

Sta. No.	Date	Time	Comp.	Grab	Station Location	No. of Containers	BTEX 602/8020	BTEX, VOA 8010 Modified	Gasoline 8015 Modified	TPH (IR) 418.1	Oil & Grease 413.1	EP TOX Cd, Cr, Pb only	EP TOX Metals (8)	PCB's 608/8080	Chlor. Solv. 601/8010	Flashpoint 1010			
4	11/22/89			✓	4 - North Face Wall	1				✓									
5	11/22/89			✓	5 - South Face & East Side	1				✓									
6	11/22/89			✓	6 - Sand Around Fuel Line	1				✓									

ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIPT

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
D. I. P. Samples	11/22/89				
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time 11/22/89	Received for Laboratory by: Antoinette Lundland	Remarks: PEL # 89-1610		

pacific environmental laboratory inc.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

December 5, 1989

Hahn & Associates
434 NW 6th Ave., Suite 203
Portland, OR 97209

Attn: David Samples

Re: PEL #89-1674

Enclosed is the lab report for your job #1258 (NC-DIRC) which was requested by you on December 4, 1989.

I. Sample Description

One Soil Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis.

Compounds not detected are listed under results as ND.

Sincerely,

Philip Nerenberg
Philip Nerenberg
President

Kim Chiusolo
Kim Chiusolo
Chemist

pacific environmental laboratory inc.

PEL REPORT NUMBER: 89-1674
CLIENT: Hahn & Associates
DATE: December 5, 1989
ITEM: One Soil Sample

METHOD: Hydrocarbon I.D. by GC/FID
Results in mg/kg (ppm)
Carbon Range: C_6-C_{24}

Sample I.D.	Hydrocarbon	Carbon Range	Detection Limit
6	1500	C_8-C_{14}	400

PACIFIC environmental LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

January 9, 1990

Hahn & Associates
434 NW 6th Ave., Suite 203
Portland, OR 97209

Attn: David Samples

Re: PEL #90-0000

Enclosed is the lab report for your job #1258 which was received in our lab on January 2, 1990.

I. Sample Description

One Soil Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis, i.e, no correction is made for moisture content unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Linnet O'Hanlon
Chemist

pacific environmental laboratory inc.

PEL REPORT NUMBER: 90-0000
CLIENT: Hahn & Associates
DATE: January 9, 1990
JOB REFERENCE: 1258
ITEM: One Soil Sample

METHOD: TPH per EPA 418.1
Results in mg/kg (ppm)

Sample I.D.	TPH
Verification Sample - 0000	ND
Lab Blank	ND
Detection Limit	5

pacific environmental laboratory inc.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660

CHAIN OF CUSTODY RECORD

RUSH YES ☐ NO ☐

Proj No. 1258	Project Name NC Dirt
P.O. Number	Sampler David Samples

Sta. No.	Date	Time	Comp.	Grab	Station Location	No. of Containers	BTEX 602/8020	BTEX, VPH 3810 Modified	Gasoline 8015	TPH (IR) 418.1	Oil & Grease 413.1	EP TOX Cd,Cr,Pb only	EP TOX Metals (8)	PCB's 608/8080	Chlor. Solv. 601/8010	Flashpoint 1010
	12/29/89				VERIFICATION SAMPLE	1										

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
D. J. Samples	12/29/89				
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received for Laboratory by: (Signature)	Remarks		
	1/2/90 1428	Kim Chisolo			

NEIL GOLDSCHMIDT
GOVERNOR

Department of Environmental Quality

811 SW SIXTH AVENUE, PORTLAND, OREGON 97204-1390 PHONE (503) 229-5696

November 20, 1989

Gary D. Clapshaw
Hillsboro Landfill
3205 SE Minter Bridge Rd.
Hillboro, OR 97123

Re: SW - Washington County
Hillsboro Landfill
SW Permit No. 112

Dear Mr. Clapshaw:

This letter will authorize disposal of petroleum contaminated soils from North Clackamas School District Transportation Yard. The contaminant is diesel fuel discovered while removing an underground storage tank. The amount of contaminated soil is approximately 1,000 cubic yards according to the environmental clean-up contractor, Hahn and Associates, Inc.

Permission is hereby granted to receive this contaminated soil at your landfill. The soil should be incorporated with the final soil cap wherever possible.

If you should have any questions, please feel free to call me at 229-5288.

Sincerely,

Charles H. Gray

Charles H. Gray
Regional Supervisor
Northwest Region

cc: Solid Waste Section, DEQ
Hahn and Associates, Inc., Attn: David L. Samples