file

Oregon
Theodore R. Kulongoski, Governor

Department of Environmental Quality
Northwest Region Portland Office
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5263
Fax: (503) 229-6945
TTY: (503) 229-5471

November 30, 2010

GLEN EBSEN
SPACE AGE FUELS
17895 SW MCEWAN RD
LAKE OSWEGO OR 97035

Re: Lake Oswego Space Age
UST Cleanup File No. 03-09-0178
UST Facility ID No. 7982

Dear Mr. Ebsen:

The Department of Environmental Quality (DEQ) has completed its review of the information submitted to date concerning the underground storage tank (UST) investigation and cleanup conducted at the Lake Oswego Space Age facility, located at 17895 SW McEwan Road in Lake Oswego, Oregon. DEQ has determined that the investigation appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-0205 through 340-122-0360. No further action is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them:

1. Petroleum-contaminated soil (PCS) was encountered at the site on February 25, 2009 during an upgrade of the site's dispensers, piping, and sumps. A total of 8.8 tons of PCS were ultimately excavated from the site and shipped to the Hillsboro Landfill for disposal.

2. On March 2-3, 2009, Construction & Environmental Services Company (CAESCO) collected 13 soil samples along piping runs at depths of 2-3 feet below ground surface (bgs). All 13 samples were analyzed for petroleum hydrocarbons by the NWTPH-HCID sampling method. No petroleum products were detected in 12 of the samples. However, a soil sample collected in the center of the "A" piping run on the west side of the side showed contamination consistent with diesel. The sample was further analyzed by the NWTPH-Dx sampling method, and diesel was detected at a concentration of 3,510 parts per million (ppm).

3. Two additional pipe run samples (FN-24 and FS-24) were collected along the pipeline connecting the northeast dispenser to the UST nest on March 6, 2009. The samples were analyzed for petroleum hydrocarbons by the NWTPH-HCID sampling method, and contamination consistent with diesel was detected in the north sample. The sample was further analyzed by the NWTPH-Dx sampling method, finding diesel at a concentration of 336 ppm.

4. Three miscellaneous soil samples were also collected on March 2 and analyzed for petroleum hydrocarbons by NWTPH-HCID. Diesel was detected in a sample from the excavated and stockpiled PCS, and further analysis by NWTPH-Dx showed the concentration of diesel to be 4,090 ppm. Diesel was also detected in a sample collected beneath "A" dispenser (located in the center of the "A" piping run) at a depth of 4½ feet bgs. Further analysis by NWTPH-Dx showed 14,200 ppm diesel. Finally, a sample from beneath the northeast dispenser at 30 inches bgs showed contamination consistent with both gasoline and diesel. The sample was further analyzed by the sampling methods NWTPH-Dx and NWTPH-Gx, finding diesel at a concentration of 3,690 ppm and gasoline at a concentration of 622 ppm.

5. The PCS beneath the northeast dispenser at 30 inches bgs was further excavated, and a confirmation soil sample was collected at 45 inches bgs on March 5, 2009. The sample was analyzed for gasoline and diesel using the NWTPH-Gx and NWTPH-Dx sampling methods, respectively. No gasoline was detected down to a detection limit of 20 ppm. Diesel was detected at a concentration of 293 ppm.

6. The PCS beneath the "A" dispenser at 4½ feet bgs was further excavated, and a confirmation soil sample was collected at 66 inches (5½ feet) bgs on March 5, 2009. The sample was analyzed for diesel using the NWTPH-Dx sampling method. Diesel was detected at a concentration of 1,810 ppm.

7. Diesel remains beneath the northeast dispenser at a reported concentration of 293 ppm, and beneath the pipeline connecting the dispenser to the UST nest at a reported concentration of 336 ppm. The concentrations meet DEQ's Level II Soil Matrix cleanup standard, which requires no residual diesel contamination above 500 ppm and no impacts to groundwater.

8. Diesel remains beneath the "A" dispenser at a reported concentration of 1,810 ppm, and cannot be removed because it extends under a canopy footing. Although this contamination exceeds the Level II Soil Matrix cleanup standard, it meets the most stringent of DEQ's Risk-Based Concentrations (RBCs) for diesel (3,200 ppm for diesel leaching to groundwater).

9. The sample with 1,810 ppm diesel was further analyzed for PAHs (polynuclear aromatic hydrocarbons) and for benzene, toluene, ethylbenzene, and xylenes (BTEX). None of these volatile and semi-volatile diesel constituents were observed, down to detection limits averaging 0.1 ppm.

10. All of the soil samples were submitted to Wy'East Environmental Sciences, Inc. for analysis. During an inspection in early September 2010, DEQ found that Wy'East varied the procedures specified by DEQ and Environmental Protection Agency (EPA) analytical

methods. As a consequence, the contaminant concentrations reported by Wy'East may be less than the actual concentrations at the site.

11. After reviewing the results, however, DEQ has determined that the residual contamination at the Lake Oswego Space Age site at a minimum meets DEQ's risk-based cleanup criteria, and in places likely meets DEQ's Level II Soil Matrix cleanup standard. The potential low bias of the sample results is not substantial enough for a reported result of 1,810 ppm diesel to actually exceed 3,200 ppm diesel. In addition, the diesel appears to be highly degraded, with little to no volatile or semi-volatile constituents, and according to the U.S. Geological Survey (USGS) groundwater at the site is about 61 feet bgs.

Contamination remains at this site. DEQ approves leaving the contamination in place because it does not pose an unacceptable risk to human health or the environment based on the current site conditions. Should the pocket of contamination become accessible in the future, however, it will have to be managed and/or disposed of in accordance with DEQ rules and regulations.

DEQ's determination that no further action is currently necessary at this site will not be applicable if new or undisclosed facts show that the investigation did not comply with the referenced rules. DEQ's determination also does not apply to any conditions at the site other than the release of petroleum products specifically addressed in this letter.

Please note that pursuant to OAR 340-122-360(2), a copy of your "Piping and Dispenser Sub-surface Investigation" report from CAESCO must be retained until ten years after you sell your property. We recommend that the report be kept with your permanent records.

Your efforts to comply with the regulations to ensure that your property has been adequately cleaned up have been appreciated. If you have any questions, please contact Kevin Dana at (503) 229-5369.

Sincerely,

Bruce Gilles
UST Cleanup Manager

cc: Kay Thompson
CAESCO Inc
PO Box 430
Fairview OR 97024

DANA Kevin

From: HUNTER Laurie
Sent: Monday, November 29, 2010 2:11 PM
To: ISMERIO Dawn
Cc: KORTENHOF Mike; KENT Lynne; CLARK Liz; DANA Kevin
Subject: NFA - projects closed

FYI....

I am closing the following business office files and CRIS accounts. All payments have been received and the files will be closed with a $0.00 balance.

Lake Oswego Space Age (03-09-0178) T37456
Hobart Oil Company (03-09-0918) T37460
Bitar & Associates (03-89-0298) T60104

Laurie

file

Oregon
Theodore R. Kulongoski, Governor

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Northwest Region Portland Office
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October 18, 2010

GLEN EBSEN
SPACE AGE FUELS
17895 SW MCEWAN RD
LAKE OSWEGO OR 97035

Re: Lake Oswego Space Age
UST Cleanup File No. 03-09-0178
UST Facility ID No. 7982

Dear Mr. Ebsen:

The Department of Environmental Quality (DEQ) has received and reviewed the March 2009 "Piping & Dispenser Sub-surface Investigation" report prepared by Construction & Environmental Services Company (CAESCO). Based on this report and other file information, it appears that your property located at 17895 SW McEwan Road in Lake Oswego has met the appropriate cleanup requirements for a No Further Action (NFA) letter.

You should see a final invoice for this project in approximately 45 days. Once the final invoice is paid, DEQ will send you the NFA letter.

If you have any questions, please feel free to contact me at (503) 229-5369.

Sincerely,

Kevin Dana

Kevin Dana
UST Cleanup Specialist

cc: Kay Thompson
CAESCO Inc
PO Box 430
Fairview OR 97024

Jim Pliska
Pliska Investments LLC
PO Box 1429
Clackamas OR 97015

(kpd:KPD)

DANA Kevin

From: GILLES Bruce A
Sent: Wednesday, September 29, 2010 11:30 AM
To: DANA Kevin
Cc: COOK Laurey
Subject: RE: LUST Sites with Wy'East Data

Kevin,
I have office hours at NWR Portland tomorrow and will be in Friday for a late AM meeting, and time sheet processing. Let's get together and discuss these sites with the goal of determining whether to proceed with closure or request for additional sampling. Send me an Outlook invite with time/location and I'll respond.
Thanks

Bruce A. Gilles, Manager
Cleanup and Emergency Response
Department of Environmental Quality
NWR - Eastside Office
1550 NW Eastman Parkway, Suite 290
Gresham, OR 97030

Phone: (503)667-8414 Extension 55009
Fax: (503) 674-5148
Cell: (971) 246-2300

From: DANA Kevin
Sent: Wednesday, September 29, 2010 10:27 AM
To: GILLES Bruce A
Cc: DANA Kevin; COOK Laurey
Subject: LUST Sites with Wy'East Data

Bruce,

Following up on our conversation yesterday, Mike Kortenhof handed off to me five project files that were on his desk. All five files had been routed to Mike for NFA approval, but all five sites were also relying on Wy'East sampling data. Four of them are my projects and one is Laurey's (Suburbia Studios).

Shall I route the files to you in Gresham (they'll all fit in the mail pouch), or wait for you to pick them up here, or proceed some other way?

Thanks! Kevin

DANA Kevin

From: GILLES Bruce A
Sent: Tuesday, September 28, 2010 12:12 PM
To: DANA Kevin
Subject: FW: Starks - Wy'East wording

FYI Language to adapt for pending NFA's involving Wy East.

From: COOK Laurey
Sent: Friday, September 10, 2010 10:15 AM
To: GILLES Bruce A
Subject: Starks - Wy'East wording

Thanks for your quick review, sorry for my snappish attitude.

I drafted a paragraph to add to the NFA, see below:

Point Source Solutions submitted the soil samples obtained from the Stark's site to Wy'East Environmental Sciences, Inc. (Wy'East) for laboratory analysis. During a recent inspection, DEQ found that Wy'East analytical methods varied from the DEQ specified method for characterizing petroleum contamination and the EPA methods for constituent analysis. The variations were primarily in the diesel and polynuclear aromatic hydrocarbons analysis, with less serious problems noted for analysis of gasoline and volatile organic compounds.

File

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Northwest Region Portland Office
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May 12, 2010

JIM PLISKA
PLISKA INVESTMENTS LLC
PO BOX 607
GRESHAM OR 97030-0153

Re: Lake Oswego Space Age
UST Cleanup File No. 03-09-0178
UST Facility ID No. 7982

Dear Mr. Pliska:

The purpose of this letter is to inform you that I have been assigned as project manager for your underground storage tank (UST) decommissioning and cleanup project located at 17895 SW McEwan Road in Lake Oswego, Oregon.

As a reminder, the Department of Environmental Quality (DEQ) is required by law to recover its costs in reviewing and overseeing work on UST cleanup projects, as described in the enclosed Cost Recovery Agreement. Please sign and return the Agreement to the address on this letterhead.

If you have any questions regarding DEQ's work on or involvement with your project, please call me at (503) 229-5369. Your efforts in investigating and cleaning up the release from your underground storage tank are appreciated.

Sincerely,

Kevin Dana

Kevin Dana
UST Cleanup Specialist

cc: Glen Ebsen
Space Age Fuels
17895 SW McEwan Rd
Lake Oswego OR 97035

Kay Thompson
CAESCO Inc
PO Box 430
Fairview OR 97024

Enclosure: Cost Recovery Agreement

(kpd:KPD)

DANA Kevin

From: TORAN Greg
Sent: Thursday, April 02, 2009 4:49 PM
To: DANA Kevin; PAIKO Steven J
Cc: 'Glen Ebsen'
Subject: RE: Form to reopen Lake Oswego 7982

Perfect and thanks. Back in tomorrow.....

Greg Toran

From: DANA Kevin
Sent: Thursday, April 02, 2009 1:36 PM
To: PAIKO Steven J
Cc: TORAN Greg
Subject: RE: Form to reopen Lake Oswego 7982

The fax was received and has been refaxed. (Note: they only sent 3 pages of the 4 page form. Page 2 was missing. Not knowing what's on Page 2, I don't know if that's a problem or not).

I placed a copy of the fax in Greg's mailbox and will route the original to Steve.

Kevin

From: TORAN Greg
Sent: Thursday, April 02, 2009 12:04 PM
To: DANA Kevin
Cc: PAIKO Steven J; 'Glen Ebsen'
Subject: FW: Form to reopen Lake Oswego 7982

Kevin,

Could you watch for an application to return to service for space age by FAX, and if you see it, FAX it over to HQ 8th floor Steve Paiko. Thx

Greg Toran

From: Glen Ebsen [mailto:glen@spaceagefuel.com]
Sent: Thursday, April 02, 2009 12:08 PM
To: TORAN Greg
Cc: LEMESSER@aol.com; TORAN Greg
Subject: Re: Form to reopen Lake Oswego 7982

Greg,
I'm faxing them to you as I write this.

Glen

---- Original Message -----
From: TORAN Greg
To: Glen Ebsen
Cc: LEMESSER@aol.com ; TORAN Greg

Sent: Wednesday, April 01, 2009 1:04 PM
Subject: Form to reopen Lake Oswego 798

Glen,

http://www.deq.state.or.us/lq/pubs/forms/tanks/USTReturnShare.pdf

One form to close and one to open. Please send this in asap, you are open and our HQ office will not budge until they have this form. Usually we like to do this before opening up.

Gregory Toran
Environmental Specialist
DEQ Northwest Region Office
2020 SW 4th Avenue Suite 400
Portland, Oregon 97201
Ph 503-229-5496
Fax 503-229-6945

Piping & Dispenser Sub-surface Investigation

Prepared For:
Space Age Fuels
PO Box 607
Gresham, OR 97030

Addressing Site Location:
Space Age Fuels

17895 S.W. Mcewan Rd.
Lake Oswego, Oregon 97035
DEQ File # 03-09-0178
Facility ID# 7982

Prepared By:
Construction & Environmental Services Co., Inc.
(CAESCO)

March, 2009

C.A.E.S.CO., Inc. Construction & Environmental Services Company, Inc.
P.O. Box 430, Fairview, OR 97024 Phone: (503) 492-0977 Fax: (503) 665-0348 CCB# 119045 Licensed * Bonded * Insured * WBE/DBE

Contents

C.A.E.S.CO., Inc. Construction & Environmental Services Company, Inc.
P.O. Box 430, Fairview, OR 97024 Phone: (503) 492-0977 Fax: (503) 665-0348 CCB# 119045 Licensed * Bonded * Insured * WBE/DBE

Piping & Dispenser Sub-surface Investigation
Space Age Fuels
17895 S.W. Mcewan Rd.
Lake Oswego, Oregon 97035
DEQ File # 03-09-0178
Facility ID# 7982

Summary

The Site is a fueling facility currently out of operation. The system consists of (1) 12,000 gallon gas, (1) 10,000 gallon gas, (1) 4,000 gallon gas and (1) 4,000 gallon diesel Underground Storage Tanks (USTs) located at the east end of the Site property.

During the latter part of February, 2009, Petroleum Constructors, Inc. (PCI) while under contract with Space Age Fuels, began to dismantle the six existing multiple product dispensers (MPDs) and existing fiberglass reinforced plastic (FRP) piping at the site in order to upgrade all piping, dispensers and sumps. As the work proceeded it was noted that discolored and odorous soils were visible beneath the west and northeast diesel dispenser. PCI endeavored to remove some of the discolored soils from beneath the west diesel dispenser to a depth of 4'6" where rock was encountered. Additionally some of the affected soils from beneath the northeast diesel dispenser were also removed to a depth of 30". Affected soils were placed on plastic and covered. PCI discussed the situation with the owners and on March 2, 2009 Construction & Environmental Services Company, Inc. (CAESCO) was on site in order to collect soil samples.

Soil samples were collected as per DEQ rules and regulations; for piping runs between 5 and 20 feet, a minimum of two soil samples must be collected from the native soils directly beneath the areas where contamination is most likely to be found. For piping runs of more than 20 feet in length, beginning at the dispensers, at least one additional soil sample must be collected at each 20' foot interval. For dispensers, at least one soil sample must be collected from the native soils directly beneath each dispenser however, when the dispensers have containment, a sample from under the containment is not necessary. The west and northeast diesel dispensers were the only two without containment sumps.

A total of sixteen soil samples were collected on 3-2-09 from beneath piping runs, beneath the two diesel dispensers that did not have containment and one from the spoils pile. Soil samples were not collected from beneath the northeast diesel dispenser piping as it was not yet exposed. Soils sampled from beneath piping runs "A-E" were collected at various depths from 24" to 33" to account for variance in burial depth. (reference attachment B and C)

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All samples were initially analyzed via Total Petroleum Hydrocarbons, Hydrocarbon Identification (HCID). All results were non-detect with the exception of the ones collected beneath the northeast and west diesel dispensers, the west diesel dispenser pipe trench area and the spoils pile; these were all detect for diesel but curiously, the northeast diesel dispenser sample also revealed a detect for gas.

The samples were quantified accordingly via Total Petroleum Hydrocarbons, Gas & Diesel-extended (TPH-Gx & TPH-Dx). The northeast diesel dispenser soil sample revealed gas at 622 parts per million (ppm) and 3690 ppm diesel at a depth of approximately 30". The west diesel dispenser soil sample revealed 14,200 ppm diesel at 4' 6" and the pipe trench nearest the west diesel dispenser was at 3510 ppm diesel at a 24" depth. The spoils pile revealed 4090 ppm diesel.

The owners elected to remove additional soils from the two dispenser areas in hopes of closing under "Soil Matrix" guidelines.

On March 5, 2009, CAESCO returned to the site in order to oversee the removal of additional soils from the two diesel dispenser areas and collect confirmatory soil samples. PCI crew members attempted to shovel out as much of the discolored soils as was possible from around the west diesel pipe trench area and canopy footing which were within the same excavation area. Large rocks and cobbles embedded within the silty soils were consistently encountered. A small pocket of discolored and odorous soils was observed at a depth of 66" up against the north base of the concrete canopy footing. It was impossible to remove additional soils near the footing. A soil sample was collected here at a depth of 66". It did appear discolored and odorous. No other discolored soils were visible within this 4' by 4' area. No groundwater was encountered at any time during sub-surface activities at the site.

The northeast diesel dispenser area was similar and also rocky. Again, PCI crew members attempted to shovel out discolored soils. The soils were noted to be discolored at the east side of the 4' by 4' area. They were able to remove a small quantity of soils from this area to a depth of 45". A soil sample was collected here and did appear to be discolored and with an odor. Two soil samples were also collected from the now exposed pipe trench extending approximately thirteen feet in length at the north and south ends of the trench at a depth of 24". Neither soil sample appeared discolored but the north soil sample did have an odor. The soil samples collected within this pipe trench area ("F") were analyzed via HCID and did detect diesel from the north end of the pipe trench nearest the dispenser. Quantification via TPH-Dx revealed 336 ppm.

C.A.E.S.CO., Inc. Construction & Environmental Services Company, Inc.
P.O. Box 430, Fairview, OR 97024 Phone: (503) 492-0977 Fax: (503) 665-0348 CCB# 119045 Licensed * Bonded * Insured * WBE/DBE

The sample collected beneath the northeast diesel dispenser was analyzed via TPH-Gx and TPH-Dx. The analysis revealed a non-detect for gas this time and 293 ppm diesel at a depth of 45". This area of the Site may be able to close according to "Soil Matrix" guidelines.

The soil sample collected beneath the west diesel dispenser after over excavation was analyzed via TPH-Dx and revealed 1810ppm diesel. It is not possible to remove any additional soils at this area beneath the canopy footing. As this sample at 1810 ppm is the highest diesel concentration remaining on site at this time, the sample was finally analyzed for Benzene, Ethylbenzene, Toluene and Xylene (BTEX) and Polyaromatic Hydrocarbons (PAH) in order to identify additional possible constituents of concern in order to close the site area under Risk Based Management Guidelines in the future. This portion of the site will need to be further delineated in order to close under Risk Based Management Guidelines.

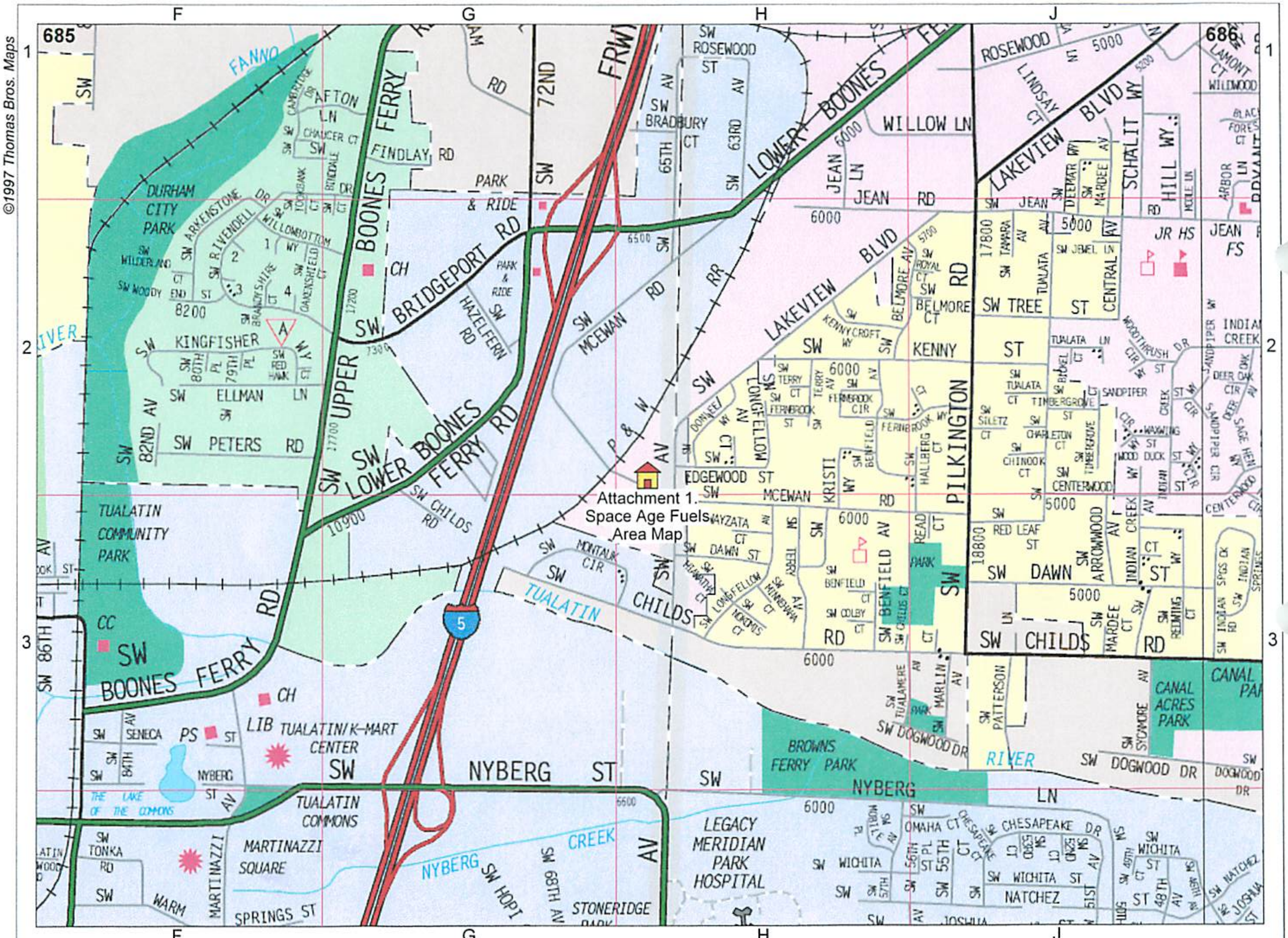
The locations of all samples are shown on the site/soil sampling map. A new pair of latex gloves was used for each sample. Samples were collected into pre-cleaned glass jars with Teflon lined lids. Sample jars were filled as full as possible to limit head space. Soil samples were transported on ice to Wy'East Environmental Sciences, Portland, Oregon for analytical testing.

Approximately 8.8 tons of petroleum contaminated soil (PCS) was removed from beneath the two diesel dispensers for off-site disposal to Hillsboro Landfill. All of the piping was replaced with double wall FRP piping thereby providing secondary containment. Dispenser sumps were installed beneath the two diesel dispensers where previously there had been none. Turbine sumps were installed at all four of the USTs and all of the dispensers were upgraded to newer models. The entire surface area over the system was backfilled with imported fill material.

Respectfully Submitted,

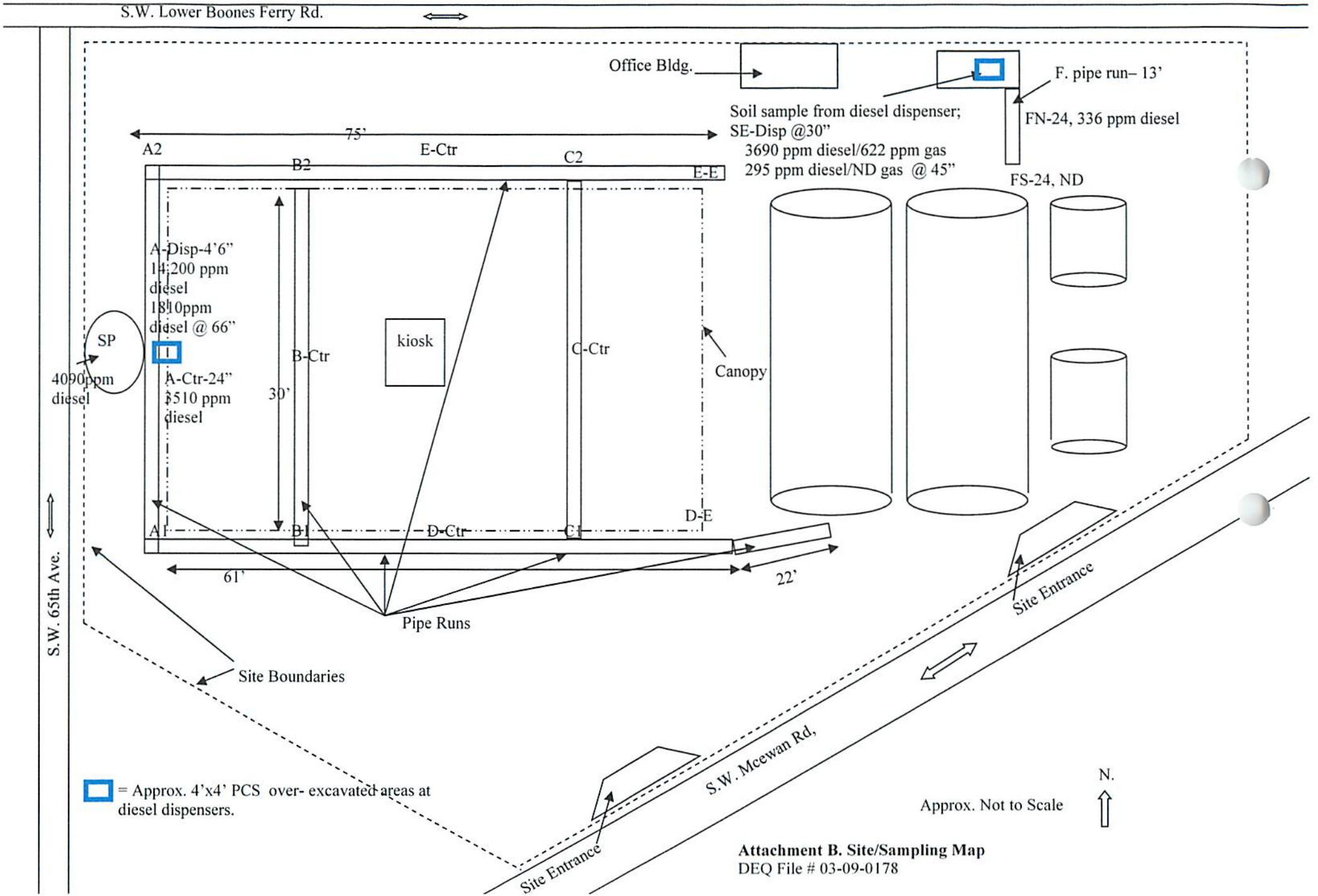
Kay Thompson

Kay Thompson
CAESCO Inc.



Attachment A. Space Age Fuels Area Map: 17895 SW Mcewan Rd, Lake Oswego, 97035, Page & Grid 685 H2

Space Age Fuels
17895 S.W. Mcewan Rd.
Lake Oswego, OR
Facility ID # 7982



Attachment B. Site/Sampling Map
DEQ File # 03-09-0178

Soil Sampling Key: Lab Report # 72458 **Attachment C.**
Space Age Fuels
17895 S.W. McEwan Rd.
Lake Oswego, OR

						Quantification	
Lab ID	**Field ID**	**Analysis**	**Gas**	**Diesel**	**Oil**	**Gas**	**Diesel**
Z1810	A-1-24"	HCID	ND	ND	ND		
Z1811	A-2-24"	HCID	ND	ND	ND		
Z1812	B-1-25"	HCID	ND	ND	ND		
Z1813	B-2-25"	HCID	ND	ND	ND		
Z1814	C-1-28"	HCID	ND	ND	ND		
Z1815	C-2-28"	HCID	ND	ND	ND		
Z1816	D-Ctr-32"	HCID	ND	ND	ND		
Z1817	E-Ctr-33"	HCID	ND	ND	ND		
Z1818	A-Disp-4'6"	HCID	ND	Detect	ND		14,200
Z1819	NE-Disp-30"	HCID	Detect	Detect	ND	622	3,690
Z1820	SP	HCID	ND	Detect	ND		4,090
Z1865	A-Ctr-24"	HCID	ND	Detect	ND		3,510
Z1866	B-Ctr-25"	HCID	ND	ND	ND		
Z1867	C-Ctr-28"	HCID	ND	ND	ND		
Z1868	D-E-32"	HCID	ND	ND	ND		
Z1869	E-E-32"	HCID	ND	ND	ND		
Z2014	FN-24"	HCID	ND	Detect	ND		336
Z2015	FS-24"	HDIC	ND				

The following results were obtained after additional soil removal from the north middle diesel dispenser and the south-east diesel dispenser.

Z1982	NE Disp-45"	TPH-Gx	ND		
Z1982	NE Disp-45"	TPH-Dx		293	ND
Z1983	A-Disp-66"	TPH-Dx		1810	ND
Z1983	A-Disp-66"	BTEX	All constituents ND		
Z1983	A-Disp-66"	PAH	All constituents ND		

Results in (mg/Kg)

ATTACHMENT D.
CHAIN OF CUSTODIES/LAB ANALYSIS

Wy'East
Environmental Sciences, Inc.
2415 SE 11th Ave. Portland Oregon 97214

CHAIN OF CUSTODY

Report Number 72458

Phone(503) 231-9320 FAX(503) 231-9344

Company: CAESCO INC	Phone: 503-492-0977
Project #: 902	FAX: 503-665-0348
Project Name: SPACE AGE	Purchase Order #
Site: 17895 SW McEWAN RD.	Report Attention: KAY / Collected By: KAY T.
Samples: Temperature 9 On Ice? (Yes) / No	Turnaround Time: ☒ Regular ☐ 3-5 Business Days

LAB ID	Field ID	Sampling Date	Sampling Time	Matrix	Container	Volume	NW-TPH-Dx	NW-TPH-GX	NW-TPH-HCID	EPA 8021B (BTEX)	EPA 8270 SIM (PAH)	EPA 8260B	Comments / Analysis Requested
21810	A-1-24	9/2/09	10:00	SOIL	JAR	4oz			X				
1811	A-2-24		10:05						X				
1812	B-1-25		10:12						X				
1813	B-2-25		10:19						X				
1814	C-1-28		10:25						X				
1815	C-2-28		10:30						X				
1816	D-CTR-32		10:37						X				
1817	F-CTR-32		10:42						X				
1818	A-Disp-4'6"		10:48						X				BTEX DX
1819	NE-Disp-30		10:39						X				BTEX GX DX
1820	SP		10:45						X				DX

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Kay Thompson	CAESCO	9/2/09	1:15	Lydia	WyEast	9/2/09	2:15 pm
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time

Laboratory Report

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

Report Number: 72458
Report Date: 3/3/09

Project Name: 902
Project Location: Space Age
Project Number: 17895 SW McEwan
Date Sampled: 3/2/09
Date received: 3/2/09

NWTPH-HCID

Analyte: Petroleum Hydrocarbon Identification in soil

Field ID	Lab ID	Gasoline	Diesel	Oil	% Surr Recovery	QC
A-1-24	Z1810	ND	ND	ND	62%	H090302-1
A-2-24	Z1811	ND	ND	ND	63%	H090302-1
B-1-25	Z1812	ND	ND	ND	60%	H090302-1
B-2-25	Z1813	ND	ND	ND	61%	H090302-1
C-1-28	Z1814	ND	ND	ND	63%	H090302-1
C-2-28	Z1815	ND	ND	ND	63%	H090302-1
D-CTR-32	Z1816	ND	ND	ND	66%	H090302-1
F-CTR-33	Z1817	ND	ND	ND	61%	H090302-1
A-Disp-4'6"	Z1818	ND	Detected	ND	115%	H090302-1
NE-Disp-30	Z1819	Detected	Detected	ND	*	H090302-1
SP	Z1820	ND	Detected	ND	87%	H090302-1
Reporting Limit (mg/Kg)	--	20	50	100	--	

* Surrogate not discernable from analyte

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

SITE NAME: Space Age
SITE LOCATION: 17895 SW McEwan
PROJECT NUMBER: 902

REPORT NUMBER: 72458
REPORT DATE: 3/4/09

NW-TPHDx
Analytes: Total Diesel and Heavy Oil range petroleum in Soil

Field ID	LAB ID	Diesel (mg/Kg)	Heavy Oil (mg/Kg)	Surrogate Recovery (%)	AB	PB	Sampling Date
A-Disp-4'6"	Z1818	14200	ND	*	68FFL90303-1	D090303-1	3/2/2009
N.E-Disp-30	Z1819	3690	ND	*	68FFL90303-1	D090303-1	3/2/2009
SP	Z1820	4090	ND	*	68FFL90303-1	D090303-1	3/2/2009
Reporting Limit:	--	25	100				

Surrogate is 1-ChloroOctadecane
*Surrogate Peak Obscured by Matrix Interference

Results relate only to samples

Chemist Initials: C.Y Chan

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

PROJECT NAME:	Space Age	**REPORT NUMBER:**	72458
SITE LOCATION:	17895 SW McEwan	**REPORT DATE:**	3/4/2009
PROJECT NUMBER:	902	**PAGE:**	1 of 1

NW-TPHGx
Analytes: Gasoline in Soil

Field ID	LAB ID	Gasoline (mg/Kg)	Surrogate Recovery (%)	Analytical Batch	Sampling Date	Preparation Batch
SE-Disp-30	Z1819	622	122%	58PI090303-1	3/2/2009	G090303-1
Reporting Limit:	—	20				

Surrogate is p-Bromofluorobenzene

Chemist Initials: C.Y Chan

Wy'East Environmental Sciences, Inc.

NW-TPH-HCID Quality Control Report

Batch ID: H090302-1
Batch Date: 03/02/09

Blank Quality Control

	Sample ID	Result Detected/ND	Acceptable Result
Reagent	LRB	ND	ND
Matrix Blank	Blank	ND	ND

Surrogate Spike Control

	Sample ID	Spike Recovery %	Acceptable Spike Recovery%
	LRB	84%	50%-150%
	BLANK	86%	50%-150%

Continuing Calibration Quality Control

Sample ID	GAS	DIESEL	OIL	Acceptable Range
CCV	Detected	Detected	Detected	Detected

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Wy'East
Environmental Sciences, Inc.
2415 SE 11th Ave. Portland Oregon 97214

CHAIN OF CUSTODY

Report Number 72478

Phone(503) 231-9320 FAX(503) 231-9344

Company: AESCO	Phone: 503-492-0977
Project #: 902	FAX: 503-684-0348
Project Name: SPACE AGE	Purchase Order #
Site: 17895 SW McEWAN RD.	Report Attention: KAY / Collected By: Kay T
Samples: Temperature 6.5 On Ice? Yes / No	Turnaround Time: ☒ Regular ☐ 3-5 Business Days

LAB ID	Field ID	Sampling Date	Sampling Time	Matrix	Container	Volume	NW-TPH-Dx	NW-TPH-GX	NW-TPH-HCID	EPA 8021B (BTEX)	EPA 8270 SIM (PAH)	EPA 8260B	Comments / Analysis Requested
71865	A-CTR-24	3/2/09	10:05	SOIL	JAR	4oz			X				
71866	B-CTR-25		10:15						X				
71867	C-CTR-28		10:23						X				
71868	D-E-32		10:35						X				
71869	E-E-32		10:45						X				

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Kay Thompson	AESCO	3/3/09		UPS		3/3/09	2:10p
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time

Laboratory Report

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

Report Number: 72478
Report Date: 3/4/09

Project Name: 902
Project Location: Space Age
Project Number: 17895 SW McEwan Rd.
Date Sampled: 3/3/09
Date received: 3/3/09

NWTPH-HCID

Analyte: Petroleum Hydrocarbon Identification in soil

Field ID	Lab ID	Gasoline	Diesel	Oil	% Surr Recovery	QC
A-CTR-24	Z1865	ND	Detected	ND	75%	H090303-1
B-CTR-25	Z1866	ND	ND	ND	58%	H090303-1
C-CTR-28	Z1867	ND	ND	ND	65%	H090303-1
D-E-32	Z1868	ND	ND	ND	66%	H090303-1
E-E-32	Z1869	ND	ND	ND	64%	H090303-1
Reporting Limit (mg/Kg)	--	20	50	100	--	

Results relate only to samples

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

SITE NAME: Space Age
SITE LOCATION: 17895 SW McEwan Rd.
PROJECT NUMBER: 902

REPORT NUMBER: 72478
REPORT DATE: 3/5/09

NW-TPHDx
Analytes: Total Diesel and Heavy Oil range petroleum in Soil

Field ID	LAB ID	Diesel (mg/Kg)	Heavy Oil (mg/Kg)	Surrogate Recovery (%)	AB	PB	Sampling Date
A-CTR-24	Z1865	3510	ND	52%	68FFL90304-1	D090304-1	3/2/2009
Reporting Limit:	—	25	100				

Surrogate is 1-ChloroOctadecane

Results relate only to samples

Chemist Initials:

NW-TPH-HCID Quality Control Report

Batch ID: H090303-1
Batch Date: 03/03/09

Blank Quality Control

	Sample ID	Result Detected/ND	Acceptable Result
Reagent	LRB	ND	ND
Matrix Blank	Blank	ND	ND

Surrogate Spike Control

	Sample ID	Spike Recovery %	Acceptable Spike Recovery%
	LRB	85%	50%-150%
	BLANK	88%	50%-150%

Continuing Calibration Quality Control

Sample ID	GAS	DIESEL	OIL	Acceptable Range
CCV	Detected	Detected	Detected	Detected

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Wy'East

Environmental Sciences, Inc.
2415 SE 11th Ave. Portland Oregon 97214

CHAIN OF CUSTODY

Report Number 72506

Phone(503) 231-9320 FAX(503) 231-9344

Company: CAESCO	Phone: 503-492-0977
Project #: 902	FAX: 503-665-0348
Project Name: SPACE AGE	Purchase Order #
Site: 17895 SW McEwan Rd.	Report Attention: Kay / Collected By: Kay T
Samples: Temperature 24° On Ice? Yes / No	Turnaround Time: ☒ Regular ☐ 3-5 Business Days

LAB ID	Field ID	Sampling Date	Sampling Time	Matrix	Container	Volume	NW-TPH-Dx	NW-TPH-GX	NW-TPH-HCID	EPA 8021B (BTEX)	EPA 8270 SIM (PAH)	EPA 8260B	Comments / Analysis Requested
Z1982	NE DISP - 45	3/5/09	1:00	Soil	JAR	4oz	X	X					
Z1983	A-DISP - 66	3/5/09	1:45	Soil	JAR	4oz	X						

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Kay Thompson	CAESCO	3/5/09	7:15	Rebecca Rovik	Wy'East	3/5/09	7:15
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

SITE NAME: Space Age
SITE LOCATION: 17895 SW McEwan Rd.
PROJECT NUMBER: 902

REPORT NUMBER: 72506
REPORT DATE: 3/6/09

NW-TPHDx
Analytes: Total Diesel and Heavy Oil range petroleum in Soil

Field ID	LAB ID	Diesel (mg/Kg)	Heavy Oil (mg/Kg)	Surrogate Recovery (%)	AB	PB	Sampling Date
NE Disp-45	Z1982	293	ND	104%	68FFL90305-1	D090305-1	3/5/2009
A-Disp-66	Z1983	1810	ND	130%	68FFL90305-1	D090305-1	3/5/2009
Reporting Limit:	--	25	100				

Surrogate is 1-ChloroOctadecane

Results relate only to samples
This report shall not be reproduced, except in full, without the written approval of WyEast Environmental Sciences, Inc.

Chemist Initials: [signature]

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

PROJECT NAME:	Space Age	**REPORT NUMBER:**	72506
SITE LOCATION:	17895 SW McEwan Rd.	**REPORT DATE:**	3/6/2009
PROJECT NUMBER:	902	**PAGE:**	1 of 1

NW-TPHGx
Analytes: Gasoline in Soil

Field ID	LAB ID	Gasoline (mg/Kg)	Surrogate Recovery (%)	Analytical Batch	Sampling Date	Preparation Batch
NE Disp-45	Z1982	**ND**	**108%**	58PI090305-1	3/5/2009	B090105-1
Reporting Limit:	--	**20**				

Surrogate is p-Bromofluorobenzene

Results relate onlyu to samples

Chemist Initials: C.Y Chan

Quality Control for Gasoline in Soil by NWTPH-Gx

Batch Date: 3/5/2009

Calibration Verification	Analytical Batch	Result (ug/L)	Theoretical Result (ug/L)	Percent Difference	Acceptable Range
CCVLCS	58PI090305-1	1930	2000	4%	±20%
CCV2	58PI090305-1	1930	2000	3%	±20%

Matrix Blank	Preparation Batch	Result (mg/Kg)	Acceptable Range	Surrogate Recovery	Surrogate Acceptable Range
BLANK	B090105-1	6.52	<20	108%	50%-150%

Matrix Spike	Preparation Batch	Result (mg/Kg)	Theoretical Result (ug/L)	Percent Recovery	Acceptable Range
LCS	B090105-1	92	100	91%	70%-130%

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Quality Control for NWTPH x

Batch Date: 3/5/2009

Wy'East

QC Blank Sample Number	PB	Diesel Result (mg/Kg)	Oil Result (mg/Kg)	Blank Control Limits Diesel (mg/Kg)	Blank Control Limits Oil (mg/Kg)	Surrogate Recovery	Blank Surrogate Control Limit (%)
BLANK-1	D090305-1	0	0	25	100	118%	50%-150%
BLANKWD	D090305-1	0	0	25	100	129%	50%-150%

QC LRB Sample Number	AB	Diesel Result (mg/Kg)	Oil Result (mg/Kg)	LRB Control Limit Diesel (mg/Kg)	LRB Control Limit Oil (mg/Kg)	Surrogate Recovery	LRB Surrogate Control Limit (%)
LRB	68FFL90305-1	0	0	25	100	120%	50%-150%

CCV Diesel Sample Number	Analytical Batch	Measured Concentration in extract (ug/mL)	Theoretical Concentration (ug/mL)	% Difference	CCV Control Limit (%)
DXCCV-1	68FFL90305-1	577.87	500	15.57%	±20%
DXCCV-2	68FFL90305-1	563.24	500	12.65%	±20%

CCV Oil Sample Number	Analytical Batch	Measured Concentration in Extract (ug/mL)	Theoretical Concentration in Extract (ug/mL)	% Difference	CCV Control Limit (%)
OILCCV-1	68FFL90305-1	354.18	400	-11.46%	±20%
OILCCV-2	68FFL90305-1	387.04	400	-3.24%	±20%

QC LCS Sample Number	PB	Diesel Result in Extract (ug/mL)	Theoretical Spike Concentration (ug/mL)	LCS Spike Recovery (%)	LCS Spike Control Limits (ug/mL)	Surrogate Recovery	LCS Surrogate Control Limits (%)
LCSD-1	D090305-1	468.63	416.67	112%	±30%	128%	50%-150%
LCSWD	D090305-1	239.85	322.58	74%	±30%	104%	50%-150%

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CHAIN OF CUSTODY

Report Number 72518

Phone(503) 231-9320 FAX(503) 231-9344

Company: CAESCO	Phone: 503-492-0977		
Project #: 902	FAX: 503-665-0348		
Project Name: SPACE AGE	Purchase Order #		
Site: 17895 SW McEWAN RD.	Report Attention: KAY	Collected By: Kay T	
Samples: Temperature 5.5 (On Ice? Yes / No)	Turnaround Time: [X] Regular [ ] 3-5 Business Days		

LAB ID	Field ID	Sampling Date	Sampling Time	Matrix	Container	Volume	NW-TPH-Dx	NW-TPH-GX	NW-TPH-HCID	EPA 8021B (BTEX)	EPA 8270 SIM (PAH)	EPA 8260B	Comments / Analysis Requested
FA7204	FN-24	3/6/09	10:30	Soil	JAR	4oz			X				
72015	FS-24	3/6/09	10:40	Soil	JAR	4oz			X				

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Kay Thompson	CAESCO	3/6/09				3/6/09	11:40
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time

Laboratory Report

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

Report Number: 72518
Report Date: 3/9/09

Project Name: 902
Project Location: Space Age
Project Number: 17895 SW McEwan Rd.
Date Sampled: 3/6/09
Date received: 3/6/09

NWTPH-HCID

Analyte: Petroleum Hydrocarbon Identification in soil

Field ID	Lab ID	Gasoline	Diesel	Oil	% Surr Recovery	QC
FN-24	Z2014	ND	Detected	ND	98%	H090306-1
FS-24	Z2015	ND	ND	ND	90%	H090306-1
Reporting Limit (mg/Kg)	--	20	50	100	--	

Results relate only to samples

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

SITE NAME:	Space Age	**REPORT NUMBER:**	72518
SITE LOCATION:	17895 SW McEwan Rd.	**REPORT DATE:**	3/10/09
PROJECT NUMBER:	902		

NW-TPHDx
Analytes: Total Diesel and Heavy Oil range petroleum in Soil

Field ID	LAB ID	Diesel (mg/Kg)	Heavy Oil (mg/Kg)	Surrogate Recovery (%)	AB	PB	Sampling Date
FN-24	Z2014	336	ND	117%	68FFL90309-1	D090309-1	3/6/2009
Reporting Limit:	—	25	100				

Surrogate is 1-ChloroOctadecane

Results relate only to samples

Chemist Initials:

NW-TPH-HCID Quality Control Report

Batch ID: H090306-1
Batch Date: 03/06/09

Blank Quality Control

	Sample ID	Result Detected/ND	Acceptable Result
Reagent	LRB	ND	ND
Matrix Blank	Blank	ND	ND

Surrogate Spike Control

	Sample ID	Spike Recovery %	Acceptable Spike Recovery%
	LRB	99%	50%-150%
	BLANK	92%	50%-150%

Continuing Calibration Quality Control

Sample ID	GAS	DIESEL	OIL	Acceptable Range
CCV	Detected	Detected	Detected	Detected

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Qurality Control for NWTPHDx

Batch Date: 3/9/2009

QC Blank Sample Number	PB	Diesel Result (mg/Kg)	Oil Result (mg/Kg)	Blank Control Limits Diesel (mg/Kg)	Blank Control Limits Oil (mg/Kg)	Surrogate Recovery	Blank Surrogate Control Limit (%)
BLANK-1	D090309-1	0	0	25	100	113%	50%-150%
SBLNK2	D090309-1	0	0	25	100	114%	50%-150%

QC LRB Sample Number	AB	Diesel Result (mg/Kg)	Oil Result (mg/Kg)	LRB Control Limit Diesel (mg/Kg)	LRB Control Limit Oil (mg/Kg)	Surrogate Recovery	LRB Surrogate Control Limit (%)
LRB	68FFL90309-1	0	0	25	100	114%	50%-150%

CCV Diesel Sample Number	Analytical Batch	Measured Concentration in extract (ug/mL)	Theoretical Concentration (ug/mL)	% Difference	CCV Control Limit (%)
DXCCV-1	68FFL90309-1	583.79	500	16.76%	±20%

CCV Oil Sample Number	Analytical Batch	Measured Concentration in Extract (ug/mL)	Theoretical Concentration in Extract (ug/mL)	% Difference	CCV Control Limit (%)
OILCCV-1	68FFL90309-1	341.91	400	-14.52%	±20%

QC LCS Sample Number	PB	Diesel Result in Extract (ug/mL)	Theoretical Spike Concentration (ug/mL)	LCS Spike Recovery (%)	LCS Spike Control Limits (ug/mL)	Surrogate Recovery	LCS Surrogate Control Limits (%)
LCSD-1	D090309-1	444.41	416.67	107%	±30%	125%	50%-150%
SLCS2	D090309-1	458.87	416.67	110%	±30%	135%	50%-150%

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

PROJECT NAME: Space Age
SITE LOCATION: 17895 SW McEwan Rd.
PROJECT NUMBER: 902

REPORT NUMBER: 72506
REPORT DATE: 3/17/09

EPA 8021B
Analytes: BTEX for soil (Benzene, Toluene, Ethylbenzene, Xylenes)

Field ID	LAB ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Surrogate Recovery (%)
A-Disp-66	Z1983	ND	ND	ND	ND	87%
Reporting Limit: --		0.03	0.1	0.2	0.4	

Surrogate is Bromofluorobenzene, Internal Standard is α,α,α-Trifluorotoluene

LAB ID	Analytical Batch	Preparation Batch	Sampling Date
Z1983	58PI090316-1	B090316-2	3/5/09

Chemist Initials: CY Chan

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Wy'East Environmental Sciences, Inc.

LABORATORY REPORT

CAESCO
4560 SE 282nd Ave.
Gresham, OR 97081

PROJECT NAME: Space Age
SITE LOCATION: 17895 SW McEwan Rd.
PROJECT NUMBER: 902

REPORT NUMBER: 72506
REPORT DATE: 3/18/09

FIELD ID: A-Disp-66

LAB ID: Z1983

Oregon PAH GC/MS-SIM
Analyte: Polynuclear Aromatic Hydrocarbon (PAH's) in Soil

Compound	Sample (mg/Kg)	Quant. Limit (mg/Kg)
Naphthalene	ND	0.05
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)Fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenzo(a,h)anthracene	ND	0.1
Benzo(ghi)perylene	ND	0.1

Surrogate:	Percent Recovery
2-fluoro-1-1'-biphenyl	90

Chemist Initials: Ayc

2415 SE 11th Ave., Portland, OR 97214
Phone (503) 231-9320 FAX (503) 231-9344

Attachment E.
Photos

North View of Site

South View of Site

East View of Site

West View of Site

Site Office Structure at NE Perimeter

East Diesel Dispenser Area

East Diesel Dispenser and Piping Trench Area

West Diesel Dispenser Area where PCS remains

PCE Remains at Base of Canopy Footing

Southeast UST Area

Attachment F.
Receipts

Generator's Nonhazardous Waste Profile Sheet

WASTE MANAGEMENT

Requested Disposal Facility: HILLSBORO LANDFILL Profile Number

☐ Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: SPACE AGE FUELS
2. Site Address: 17895 S.W. McEWAN RD.
3. City/ZIP: LAKE OSWEGO, OR 97035
4. State: OREGON
5. County: CLACKAMAS
6. Contact Name/Title: JIM PLISKA/OWNER
7. Email Address: staff@spaceagefuel.com
8. Phone: 503-635-5693 9. FAX: 503-635-1741
10. NAICS Code: _____
11. Generator USEPA ID #: _____
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: _____

1. Customer Name: CASCO INC
2. Billing Address: PO BOX 430
3. City, State and ZIP: FAIRVIEW OR 97024
4. Contact Name: KAY THOMPSON
5. Contact Email: CASCOINC@ACL.COM
6. Phone: 503-492-0977 FAX: 503-665-0348
7. Transporter Name: PCI
8. Transporter ID # (if appl.): _____
9. Transporter Address: PO B
10. City, State and ZIP: TROUTDALE OR

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: DIESEL & GAS CONTAMINATED SOIL
State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:

SOIL CONTAMINATED W/ GAS & PREDOMINATELY DIESEL DISCOVERED DURING DISPENSER & PIPING UPGRADE AT FUELING FACILITY

c. Typical Color(s): DK BRN

d. Strong Odor? ☒ Yes ☐ No Describe: FUEL

e. Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☐ Other: _____

f. Layers? ☐ Single layer ☐ Multi- layer ☒ NA

g. Water Reactive? ☐ Yes ☒ No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ ☒ NA(solid)

i. pH Range: ☐ ≤2 ☐ 2.1-12.4 ☐ ≥12.5 ☒ NA(solid) ☐ Actual: _____

j. Liquid Flash Point: ☐ < 140°F ☐ ≥ 140°F ☒ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☒ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ☐ (See Attached)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. SOIL CONTAMINATED W/DIESEL & GAS FUEL	0		100	
2.				
3.				
4.				
5.				
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☒ One Time Event ☐ Base ☐ Repeat Event

b. Estimated Annual Quantity: 3-4 ☐ Tons ☒ Cubic Yards ☐ Drums ☐ Gallons ☐ Other (specify): _____

c. Shipping Frequency: _____ Units per ☐ Month ☐ Quarter ☐ Year ☒ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☒ No

e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): _____

Generator's Nonhazardous Waste Profile Sheet

WASTE MANAGEMENT

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☐ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☑ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: Lily Envt. ID# Z1818, Z1819, Z1820, Z1865 # Pages: 3
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☐ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: _____
   - ☑ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☐ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: Kay Thompson **Title:** Pres

Company Name: CAESCO INC. **Name (Print):** Kay Thompson

Date: 3-6-09

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation ☐ Non-hazardous solidification ☐ Other: _____

Approval Decision: ☐ Approved ☐ Not Approved

Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

_____

_____

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ **Date:** _____

State Authorization (if Required): _____ **Date:** _____

WASTE MANAGEMENT, INC . ..NON HAZARDOUS WASTE DISPOSAL SOLUTIONS FOR THE PACIFIC NORTHWEST

Hillsboro Landfill, Inc.

3205 SE MINTER BRIDGE ROAD HILLSBORO, OR 97123

PERMIT # 103136OR

Tracking Number 12702

PERMIT TO DISPOSE OF NON-HAZARDOUS MATERIALS

This permit authorizes disposal of Customer's waste materials in accordance with the Industrial Waste & Disposal Services Agreement dated *9/03*.

EXPIRES: 6/9/09

GENERATOR: SPACE AGE FUELS

DESCRIPTION: *PCS - DIESEL AND GASOLINE*	TONS: *10*
☐SPECIAL WASTE ☒CS ☐C&D ☐CLEAN-UP	
LOCATION: *LAKE OSWEGO, OREGON 17895 SW MCEWAN ROAD*	COUNTY: *Clackamas*
CONTACT: *KAY THOMPSON*	PHONE: *503-492-0977*
	FAX: *503-665-0348*

BILLING: *Landfill account CAESCO*	PO#: *N/A*	JOB#: *N/A*

We accept business checks, cash, VISA / Mastercard or charge(with prior approval)

SPECIAL HANDLING : *NONE:*

MK TyT

APPROVED: KC *KRISTIN CASINER* DATE: *03/09/09 1:26:18 PM*

A COPY OF THIS PERMIT MUST BE SHOWN BY EACH DRIVER

THERE IS A MINIMUM CHARGE OF $50-$60 FOR EACH LOAD OF SPECIAL WASTE

WASTE MANAGEMENT

HAZARDOUS WASTE IS STRICTLY PROHIBITED

Organization ID	Customer Name (Site)	Ticket In (Date/Time)	Ticket No	Profile Nm (Master)	Profile Nm (Site)	Material Nm - Ticket	Tons	Rate UOM - Material
S03305	CONSTANDENVS	3/16/2009 11:56	1200836	OR-103136OR	103136OR	Cont Soil Pet-RGC-To	8.8	Tons

Space Age - PCS to Hillsboro

DANA Kevin

From: DANA Kevin
Sent: Monday, March 16, 2009 9:37 AM
To: 'caescoinc@aol.com'
Cc: TORAN Greg; DANA Kevin
Subject: RE: Space Age Fuels (03-09-0178)

Kay,

Not being the Project Manager for this site (nor being all that familiar with it) I can't give you definitive answers, but in general:

Yes, you can try closing out the east dispenser contamination under the Soil Matrix rules if you think the residual contamination meets the requirements. Normally we would want to see the entire site closed out under one set of rules (Soil Matrix, RBCs, etc) rather than picking and choosing, but since the east and west contaminant plumes here look to be clearly separate and distinct, then using different standards for the different plumes seems appropriate.

For the west dispenser, I'm certainly not going to discourage you from running constituent analyses! But if you need to keep an eye on your spending, then the samples with the highest levels of contamination should be run for BTEX and PAHs. If your upcoming additional delineation will just be looking for the edges of the contamination, then you should run the BTEX and PAHs with the current sample. But if you anticipate getting higher concentrations (above 1810 diesel) later on, then you might be better off waiting.

Sorry for being a little vague and non-committal, but that's the best I can do at the moment!

Kevin

-----Original Message-----
From: TORAN Greg
Sent: Monday, March 16, 2009 8:10 AM
To: DANA Kevin
Subject: FW: Space Age Fuels

Kevin,

This is for the lust file, could you get back to Kay on her question? If people are used to closing a site under risk and the new standards don't allow for it, it makes me wonder if cleanup will be asking people to dig more, or making allowance somehow.

I guess we have something lust related that is new and different enough that I am curious.

Greg Toran

-----Original Message-----
From: caescoinc@aol.com [mailto:caescoinc@aol.com]
Sent: Friday, March 13, 2009 1:40 PM
To: TORAN Greg
Subject: Space Age Fuels

Greg,

Attached is the site sampling map final lab results. After some additional soils removal at the east diesel dispenser I got an ND for gas and 293ppm for diesel. Can I close that part out via Soil Matrix?

I'm wondering if I should go ahead a run BTEX and PAH on Lab ID Z1983 (highlighted in blue) at this time or wait until we go back out to delineate the area for Risk Based Closure. What do you advise? Note- At this area (west diesel dispenser area) the first soil sample collected at a depth of 4'6" revealed 14,200ppm diesel. I was very surprised that after a small amount of additional soils removed the sample at 66" came back so much lower. I collected it from what appeared to be the most discolored and odorous area there.

Please advise as to running additional analysis at this time or wait for delineation endeavors via drill rig.

Regards,

Kay Thompson

CAESCO

I will begin putting together a summary of events report and sampling plan for Risk Based Closure on the west side of the site.

DANA Kevin

From: TORAN Greg
Sent: Monday, March 16, 2009 8:10 AM
To: DANA Kevin
Subject: FW: Space Age Fuels
Attachments: Space Age Site Sampling Map.doc

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Regards,

Kay Thompson

CAESCO

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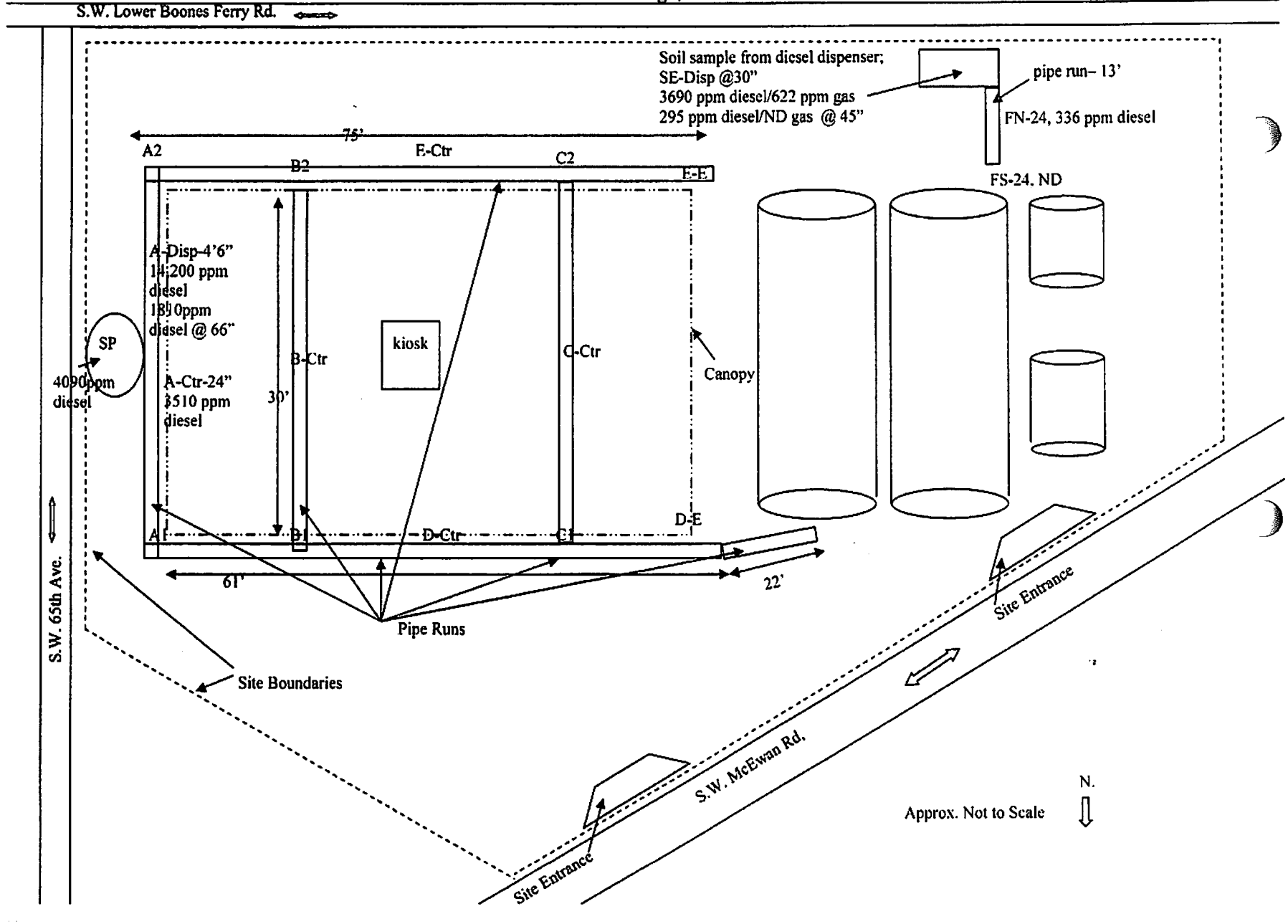
Site/Sampling Map
Space Age Fuels
17895 S.W. McEwan Rd.
Lake Oswego, OR



Soil Sampling Key: Lab Report # 72458
Space Age Fuels
17895 S.W. McEwan Rd.
Lake Oswego, OR

Lab ID	Field ID	Analysis	Gas	Diesel	Oil	Quantification Gas	Quantification Diesel
Z1810	A-1-24	HCID	ND	ND	ND		
Z1811	A-2-24	HCID	ND	ND	ND		
Z1812	B-1-25	HCID	ND	ND	ND		
Z1813	B-2-25	HCID	ND	ND	ND		
Z1814	C-1-28	HCID	ND	ND	ND		
Z1815	C-2-28	HCID	ND	ND	ND		
Z1816	D-Ctr-32	HCID	ND	ND	ND		
Z1817	E-Ctr-33	HCID	ND	ND	ND		
Z1818	A-Disp-4'6"	HCID	ND	Detect	ND		14,200
Z1819	SE-Disp-30	HCID	Detect	Detect	ND	622	3,690
Z1820	SP	HCID	ND	Detect	ND		4,090
Z1865	A-Ctr-24	HCID	ND	Detect	ND		3,510
Z1866	B-Ctr-25	HCID	ND	ND	ND		
Z1867	C-Ctr-28	HCID	ND	ND	ND		
Z1868	D-E-32	HCID	ND	ND	ND		
Z1869	E-E-32	HCID	ND	ND	ND		
Z2014	FN-24	HCID	ND	Detect	ND		336
Z2015	FS-24	HDIC	ND				

The following results were obtained after additional soil removal from the north middle diesel dispenser and the south-east diesel dispenser.

Z1982	SE Disp-45"	TPH-Gx	ND		
		TPH-Dx		293	ND
Z1983	A-Disp-66"	TPH-Dx		1810	ND

Results in (mg/Kg)

caescoinc
march 5,2009

PortlandMaps

17895 BOONES FERRY RD - TUALATIN

Aerial Photo

2007 / '06 / '05 / '04 / '03 / '02 / '01 6" / **2'** / 4' / 10' / 20' Streets: On / **Off** Lots: On / **Off** Dot: **On** / Off

0 100 FT

City of Portland, Corporate GIS 3/12/2009

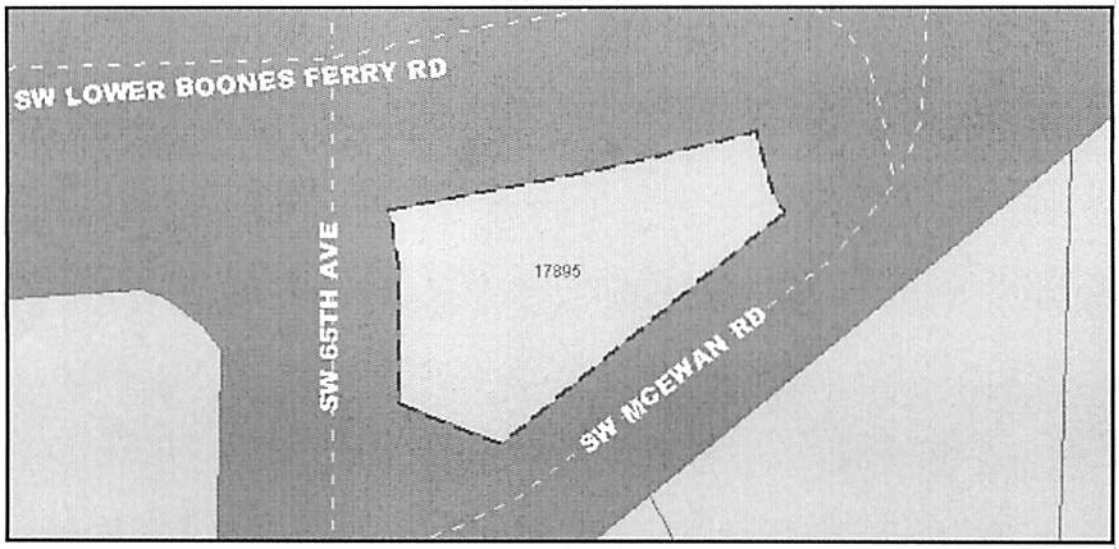
PortlandMaps

17895 BOONES FERRY RD - TUALATIN

17895 SW MCEWAN RD

Description
Size 0 square feet
Number of Bedrooms
Bathrooms

Property Map



Property Value (2008)

Market Value	$509,691.00
Assessed Value	$0.00

Taxes ()

Property Taxes	$0.00
Total Taxes	$0.00

Misc Info

Year Built 0
Foundation Type
Interior Finish
Roof Style
Roof Cover Type
Flooring Type
Heating/AC Type

City of Portland, Corporate GIS

Assessor Data Updated 3/9/2009

file

Oregon
Theodore R. Kulongoski, Governor

Department of Environmental Quality
Northwest Region Portland Office
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5263
Fax: (503) 229-6945
TTY: (503) 229-5471

March 9, 2009

JIM PLISKA
PLISKA INVESTMENTS LLC
PO BOX 607
GRESHAM OR 97030-0153

RE: Lake Oswego Space Age
File No.: 03-09-0178

The Department of Environmental Quality (DEQ) received a report of an oil spill on March 5, 2009 from an underground storage tank (UST) system at your facility located at 17895 SW Boones Ferry Road in Lake Oswego, Oregon. As the responsible party for the facility, Oregon law requires you to clean up the spill (see OAR 340-122-0201 through 340-122-0360). These rules require you to clean up the soil, groundwater, surface water and anything else contaminated by petroleum. The cleanup must meet the appropriate standards or demonstrate that the contamination does not pose a risk to human health or the environment.

You must complete the enclosed Initial Report Form for UST Cleanup Projects and send it to this office within twenty (20) days from the date the release was reported. I have also enclosed an outline of additional reporting requirements that includes due dates for submittals. You can request a copy of the UST Cleanup regulations or an application for a letter of authorization for soil treatment. As the responsible party, you should be aware of the requirements for cleanup, even if you have hired a qualified contractor or consultant to assist you.

Please reference the DEQ File Number listed above in all future correspondence and reports.

Oregon law requires DEQ to recover project oversight costs. DEQ oversight begins with the initial site characterization and continues through cleanup approval and site closure. Oversight includes the time spent on activities such as reviewing reports, preparing correspondence, answering technical questions, site inspections, and enforcement actions. **DEQ will send you an invoice each month for all oversight activities performed to date.**

DEQ considers sites that pose the greatest hazard to human health, safety and the environment the highest priority for oversight. As a result, DEQ will not review in detail many lower environmental priority sites or issue a final "No Further Action" or "closure" letter until the higher priority sites are addressed. However, all projects, simple or complex, require at least some oversight. At a minimum, DEQ reviews each site to determine the environmental priority of the cleanup project. Until DEQ closes this project this property will remain on a DEQ list of contaminated properties.

If you want DEQ oversight and approval regardless of environmental priority, you must sign a Responsible Party Priority Site Program agreement requesting priority review and confirming your agreement to pay DEQ oversight costs in a timely manner.

If you do not sign this agreement, you are still responsible for investigation and/or cleanup of the contamination, and for paying DEQ oversight costs. Please be aware that there may be a waiting list for assignment to the next available project manager, and that these projects are assigned on a first come, first served basis.

Please read the attached information on the cost recovery and invoice process. We also are enclosing information about the Responsible Party Priority Site Program and an agreement, if you are interested in expediting review of your project. Contact the DEQ Land Quality Division at (503) 229-6635 if you have questions about cost recovery.

Thank you for your cooperation and continued efforts to comply with the regulations. **If you have any questions about the regulations and/or your cleanup project, please call (503) 229-5263 and ask to speak to the Underground Storage Tank Duty Officer.**

Sincerely,

Michael H. Kortenhof, Manager
UST Cleanup and Compliance Section

Enclosures

DANA Kevin

From: TORAN Greg
Sent: Friday, March 06, 2009 10:07 AM
To: 'LEMESSER@aol.com'
Cc: DANA Kevin; 'Glen Ebsen'
Subject: RE: Space Age LO

Actually William reported it as a confirmed release by visual when I was at the site. The preliminary lab data from Kathleen I would call frosting.

Greg Toran

From: LEMESSER@aol.com [mailto:LEMESSER@aol.com]
Sent: Friday, March 06, 2009 9:24 AM
To: TORAN Greg
Subject: Space Age LO

Hey Greg!!

Just checking in. I am assuming that Kathleen with Caesco has let you know about the "suspected release" out at the Space Age site. If she hasn't yet, please let me know so that I can remind her as she is the one doing all the sampling.

Let me know. Ü

Thanks,
Laurie

DANA Kevin

From: TORAN Greg
Sent: Thursday, March 05, 2009 4:56 PM
To: 'caescoinc@aol.com'
Cc: DANA Kevin
Subject: RE: Space Age fuel preliminary results

Thanks Kay, I thought it was well done. I think that other diesel line was the last. I made sure this was reported by PCI based on visual and the lab data fills in the rest. There isn't a lust number yet and this work is part of the upgrade I am reviewing, so you can send the final lab on the sampling directly to me and I will see that it gets logged in as part of the initial cleanup assessment.

Greg Toran

-----Original Message-----
From: caescoinc@aol.com [mailto:caescoinc@aol.com]
Sent: Thursday, March 05, 2009 4:36 PM
To: TORAN Greg
Subject: Re: Space Age fuel preliminary results

There was no piping exposed at the time. I will go back and collect two tomorrow.

Thank you!

Kay

-----Original Message-----

From: TORAN Greg <TORAN.Greg@deq.state.or.us>

To: caescoinc@aol.com

Sent: Thu, 5 Mar 2009 4:20 pm

Subject: RE: Space Age fuel preliminary results

Kay,

How about the piping connected to the diesel suction dispenser adjacent to the building?

Greg Toran

-----Original Message-----

From: caescoinc@aol.com [mailto:caescoinc@aol.com]

Sent: Thursday, March 05, 2009 10:54 AM

To: TORAN Greg

Subject: Space Age fuel preliminary results

Greg,

Attached is a preliminary site/sampling map and analysis results to date for your review. The owners want to remove additional soils at the two

diesel dispenser areas where soils are affected. I will be going out there this afternoon. Does it appear that I have collected enough soils samples for the piping runs? Please let me know if you require additional soil sampling.

DANA Kevin

From: TORAN Greg
Sent: Thursday, March 05, 2009 4:41 PM
To: DANA Kevin
Subject: FW: Space Age fuel preliminary results
Attachments: Space Age Preliminary Site Sampling Map.doc

fyi

Greg Toran

-----Original Message-----
From: caescoinc@aol.com [mailto:caescoinc@aol.com]
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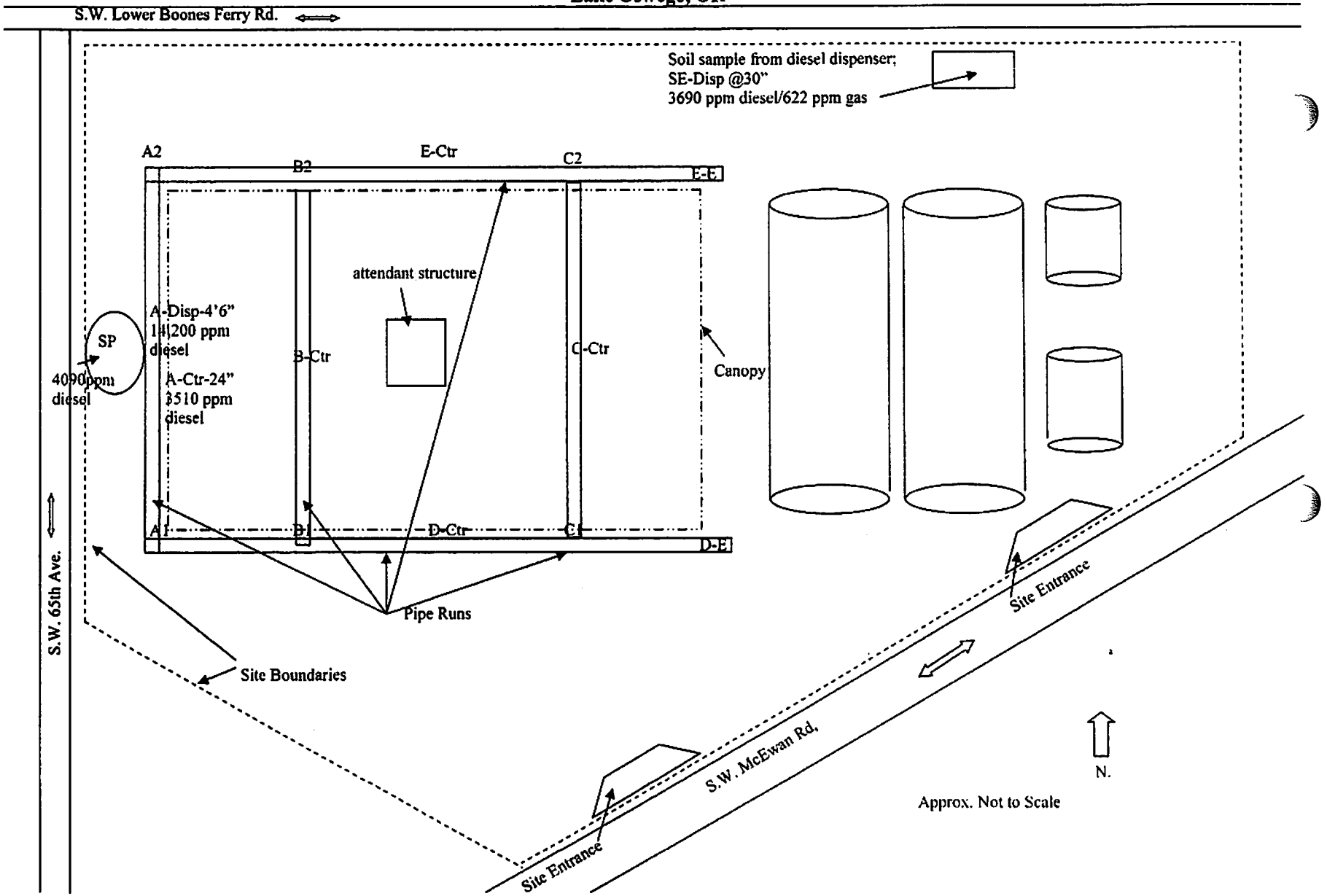
Respectfully,

Kay Thompson

CAESCO Inc.

Preliminary Site/Sampling Map
Space Age Fuels
17895 S.W. McEwan Rd.
Lake Oswego, OR



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Results in (mg/Kg)

caescoinc
march 5,2009

DANA Kevin

From: TORAN Greg
Sent: Thursday, March 05, 2009 4:37 PM
To: 'Glen Ebsen'
Cc: DANA Kevin; KORTENHOF Mike
Subject: FW: Sampling when piping and dispensers are replaced & 7982 Lake O Space Age

Glen,

I received the preliminary lab data from Kay today for the pump islands, piping trenches and soil pile(s). I know I was out there and visually saw the contamination, but Space Age has to make sure that releases get reported within 24 hours.

I know we can say that your UST Service Provider reported it to me at the site and that's within 72 hours of discovery, all the same you should be careful and have a procedure in place to always report directly to the DEQ within 24. I wouldn't want someone at DEQ to think this hadn't been reported or in the future that this might be overlooked.

By the way, the site is closed down, please submit this application.

http://www.deq.state.or.us/lq/pubs/forms/tanks/USTTempClosure30DayNotice.pdf

Greg Toran

From: TORAN Greg
Sent: Wednesday, February 25, 2009 3:56 PM
To: 'Glen Ebsen'
Cc: 'lemesser@aol.com'; CLOUGH Eric ; ENGLAND Tracy; GRECO, Susan; KORTENHOF, Mike; MCCOY Bob; PARR, Jim; PETT Teresa; REITER Rich; SCHEEL, Mitch; TORAN Greg
Subject: Sampling when piping and dispensers are replaced & 7982 Lake O Space Age

Hi Glen,

Be sure and report a release to Kevin Dana with my office based on visual confirmation.

Please submit this application for temporary closure. I thought this had been done. There is no fee.

http://www.deq.state.or.us/lq/pubs/forms/tanks/USTTempClosure30DayNotice.pdf

I am still looking at the design and the rule on the sensor count question.

Sampling is required at the Lake O Space Age where dispensers and piping runs are being replaced, starting at the dispensers.

Also of course, collect samples wherever contamination is found, please collect samples from stained areas before removing the contaminated materials as well as after. This morning, William and I discussed having Kay do this.

Please submit the lab data and everything required as part of this sampling event to me for my review as part of this upgrade. I will see that this then goes to the cleanup file.

340-150-0180

Site Assessment Requirements for Permanent Closure or Change-In-Service

(1) An owner and permittee must complete a site assessment to measure for the presence of a release where contamination is most likely to be present at the UST facility and submit results of the assessment to the department when the following events occur:

(a) Change-in-service (OAR 340-150-0166);

(b) Permanent Closure (OAR 340-150-0168);

(c) Request for Extension of Temporary Closure Certificate (OAR 340-150-0167(2)(c)(A)

(d) Underground piping is replaced, decommissioned by removal or abandoned; and

(e) Fuel dispensers are moved, replaced, decommissioned or abandoned.

(e) For underground piping:

(A) For piping runs between 5 and 20 feet, a minimum of two soil samples must be collected from the native soils directly beneath the areas where contamination is most likely to be found, unless otherwise approved by the department; and

(B) For piping runs of more than 20 feet in length, beginning at the dispensers, at least one additional soil sample must be collected at each 20-foot interval;

(f) For dispensers, at least one soil sample must be collected from the native soils directly beneath each dispenser;

Gregory Toran
Environmental Specialist
DEQ Northwest Region Office
2020 SW 4th Avenue Suite 400
Portland, Oregon 97201
Ph 503-229-5496
Fax 503-229-6945

DANA Kevin

From: TORAN Greg
Sent: Wednesday, February 25, 2009 4:00 PM
To: DANA Kevin
Cc: TORAN Greg
Subject: FW: Sampling when piping and dispensers are replaced & 7982 Lake O Space Age

Kevin,

Diesel release at one of the dispensers at the very least, PCS is stockpiled initial samples collected. I didn't see a former or current cleanup for this site.

Greg Toran

From: TORAN Greg
Sent: Wednesday, February 25, 2009 3:56 PM
To: 'Glen Ebsen'
Cc: 'lemesser@aol.com'; CLOUGH Eric ; ENGLAND Tracy; GRECO, Susan; KORTENHOF, Mike; MCCOY Bob; PARR, Jim; PETT Teresa; REITER Rich; SCHEEL, Mitch; TORAN Greg
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Gregory Toran
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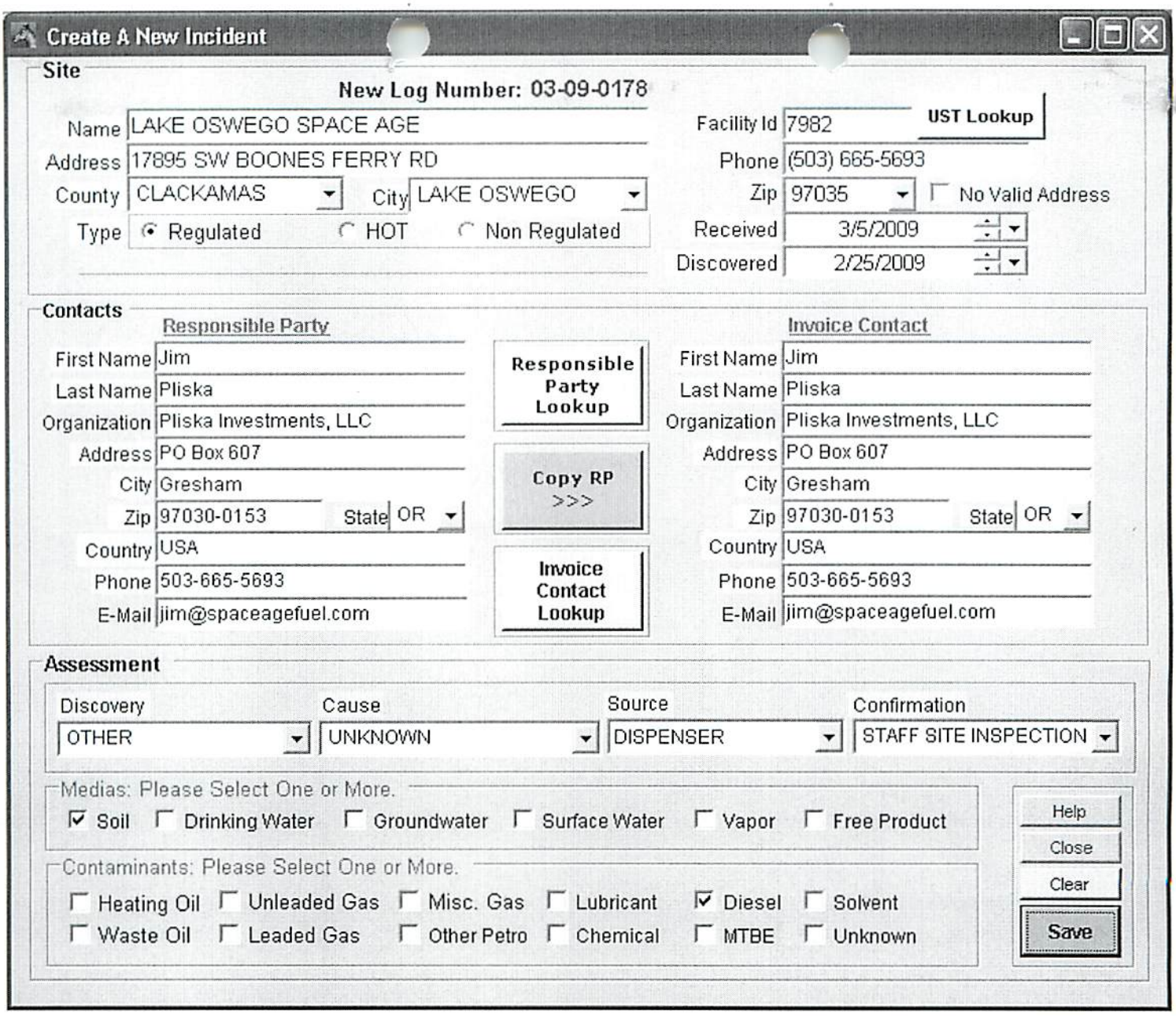
Fax 503-229-6945



Q-Time #41001
NFA 12/2/10 uc