



King County
Transit Division

Department of Transportation
821 Second Avenue, MS-118
Seattle, WA 98104-1598

Transit Design & Construction Section
Phone: (206) 684-1300; Fax: (206) 684-1803

Metro South Base Annex
SIT 3.6.7

June 20, 1997

91657
E20

✓ Maura S. O'Brien
Metro Projects Manager, Toxics Cleanup Program
State of Washington Department of Ecology
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, Washington 98008-5452

Re: Facilities Maintenance South UST Project @ *South Base Annex*

Dear Maura:

Attached for your information is the final closure report on the tank removal project at Facilities Maintenance South. The work consisted of removal of three tanks and installation of one new gasoline tank. We believe that this report documents the satisfactory completion of this project and request DOE to acknowledge that no further action on this site is required regarding this UST installation which now meets all current regulation.

Should you have any questions, please call me at 684-1301.

Very truly yours,

Bob Isler
Manager, Base Facilities Program
King County Transit Division

BI:ae

Attachment

June 18, 1997

14,309.308

Ms. Christy Sanders-Meena
King County Water Pollution Control Division
Design and Construction Services
821 2nd Avenue, M/S 107
Seattle, Washington 98104-1598

Dear Ms. Sanders-Meena:

**Underground Storage Tank Closure Assessment Report
Facilities Maintenance South UST Project
Work Order C76051
Environmental Engineering Service Contract C
Contract No. CS/M66-94**

This letter report documents site assessment actions performed by AGI Technologies (AGI) on April 23 and 28, 1997 during removal of three underground storage tanks (USTs) at the King County Transit Division ~~South Operating Base Facility Annex at 11911 East Marginal Way South~~ in Tukwila, Washington. Figure 1 shows the site location. Our services were performed in accordance with our October 4, 1996 proposal. The following sections describe the site and its history; project activities including water sampling, UST removal, soil sampling, and analytical testing and results; and our conclusions and recommendations for this project.

SITE DESCRIPTION AND HISTORY

The relatively flat site is located in a commercial setting. Figure 2 shows the site layout. The three removed USTs consisted of one 550-gallon engine oil tank, one 10,000-gallon unleaded gasoline tank, and one 10,000-gallon diesel tank near the southwest corner of the Facilities Maintenance building. We understand that the three fiberglass tanks were installed in 1986.

Woodward-Clyde Consultants conducted an investigation at the site in October and December 1994 that included drilling seven soil borings in the area of the USTs. Two of the borings were completed as groundwater monitoring wells. Woodward-Clyde's activities are documented in a January 19, 1995 report titled *Preconstruction Site Assessment Report, South Operating Base Annex*. The soil borings ranged in depth from 9 to 19 feet below ground surface (bgs). Soils encountered during drilling consisted of silt, silty sand, or sand. Borings drilled near the USTs encountered sandy gravel backfill. Groundwater was encountered between 7 and 11 feet bgs during drilling. Four 6-inch-diameter dewatering wells were installed in the UST excavation in 1986. The wells extend to depth of 11 feet; their locations are shown on Figure 2.

PROJECT ACTIVITIES

Water Sampling

A water sample was collected by an AGI representative from dewatering well DW-4 on April 23, 1997 in an effort to evaluate water quality prior to contractor dewatering activities. DW-4 was in direct hydraulic communication with the pea gravel backfill surrounding the USTs to be removed. Groundwater was present in the well at approximately 5 feet bgs. The sample was collected using a disposable bailer, placed in laboratory-supplied containers, labeled, and placed in a cooler chilled with Blue Ice. The sample contained a hydrocarbon-like odor and sheen. The sample was delivered under chain-of-custody protocol to OnSite Environmental Inc. (OnSite) for testing of gasoline and diesel range total petroleum hydrocarbons (TPH) using Washington State Department of Ecology (Ecology) Method WTPH-G and WTPH-D and for benzene, ethylbenzene, toluene, and total xylenes by U.S. Environmental Protection Agency (EPA) Method 8020.

UST Removal and Soil Sampling

The 550-gallon engine oil UST and the 10,000-gallon gasoline UST were removed from the site before AGI's arrival on April 23, 1997. The 10,000-gallon diesel UST was removed in AGI's presence on April 23, 1997. The tank was in good condition with no visible holes. Global Diving & Salvage Inc. of Seattle, Washington provided UST removal services. Soil surrounding the tanks consisted of pea gravel. Eight discrete soil samples (designated S1 through S8) were collected on April 29, 1997. The soil samples consisted of pea gravel or a mixture of pea gravel and silty sand. Figure 3 shows the location of the soil samples. Soil samples were collected using a clean stainless steel spoon, placed in laboratory-supplied containers, labeled, and placed in a cooler chilled with Blue Ice.

Two additional discrete soil samples (S9 and S10) were collected on April 28, 1997 by a Herrera Environmental Consultants representative (a subconsultant to AGI for Contract C) in the same manner described above. The two samples were collected after a trench box had been placed in the removed UST excavation and the interior pea gravel was removed down to native silty sand. The sample locations are shown on Figure 3. No soil stockpile was generated while excavating inside the trench box.

The soil samples were delivered under chain-of-custody protocol to OnSite for testing of TPH using Ecology Method WTPH-G and WTPH-D and for benzene, ethylbenzene, toluene, and total xylenes by EPA Method 8020. The WTPH-D method was modified to also quantify motor oil-range TPH. One of the bottom samples (S2) was not analyzed because it consisted of saturated pea gravel fill.

Analytical Testing and Results

The water samples from dewatering well DW-4 contained 9.5 micrograms per liter (ug/L) benzene and 2.3 ug/L toluene. No petroleum hydrocarbons were detected in soil at or above the laboratory detection limits with the exception of sample S4, which was collected at the west end of the former diesel UST. This sample contained 0.15 milligrams per kilogram (mg/kg) toluene and 0.71 mg/kg

Ms. Christy Sanders-Meena
King County Water Pollution Control Division
June 18, 1997
Page 3



~~total xylenes~~ The analytical laboratory results for water and soil are summarized in Tables 1 and 2, respectively. Copies of AGI's quality assurance review and analytical laboratory reports are attached.

CONCLUSIONS AND RECOMMENDATIONS

The water sample from DW-4 serves as a worst case indicator of dissolved petroleum hydrocarbons around the removed USTs. The sample contained a benzene concentration only slightly above the state Method A cleanup level¹ of 5 ug/L. Only trace toluene and total xylenes were detected in one of nine soil samples analyzed. Based on this information, AGI believes that no release above a de minimis amount occurred from the three removed USTs and, therefore, that no further action is necessary in the area of the removed USTs.

LIMITATIONS

The information, conclusions, and recommendations in this letter are based on conditions encountered at the time of our field investigation, information provided by King County, and our experience and professional judgment. AGI can not be responsible for interpretation by others of the data contained in this report. Our work has been performed in a manner consistent with that level of care and skill exercised by members of profession currently practicing under similar conditions in the area. No other warranty, express or implied, is made.

Sincerely,

AGI Technologies

A handwritten signature in dark ink, appearing to read "Lance E. Peterson".

Lance E. Peterson, P.G.
Senior Hydrogeologist

A handwritten signature in dark ink, appearing to read "Gary Laakso".

Gary Laakso
Principal

LEP/GLL/tag

attachments

cc: Liz Gaskill; King County Water Pollution Control Division

¹ Method A cleanup levels for groundwater as promulgated by Washington Administrative Code (WAC) 173-340, Model Toxics Control Act Cleanup Regulation (MTCA).

Table 1
Summary of Groundwater Analytical Results
 Metro/Facilities Maintenance South
 Tukwila, Washington

Sample Location ^a	Sample I.D.	Date Sampled	Washington State Test Method		EPA Test Method			
			Total Petroleum Hydrocarbons					
			<u>WTPH-G</u>	<u>WTPH-D</u>	<u>BETX 5030/8020</u>			
			Gasoline	Diesel	Benzene	Ethylbenzene	Toluene	Total Xylenes
			mg/L		µg/L			
DW-4	TC-4/97	04/23/97	ND	ND	9.5	ND	2.3	ND
Method Reporting Limit			0.1	0.5	1	1	1	1
Cleanup Levels ^b			1	1	5	30	40	20

Notes:

Samples analyzed by OnSite Environmental Inc. of Redmond, Washington.

a) See Figure 3 for sample location.

b) Method A suggested cleanup level for residential groundwater promulgated under Washington Administrative Code Chapter 173-340, State of Washington Model Toxics Control Act Cleanup Regulation.

mg/L - Milligrams per liter.

µg/L - Micrograms per liter.

ND - Not detected.

— Not analyzed.

Table 2
Summary of Soil Analytical Results
 Metro/Facilities Maintenance South
 Tukwila, Washington

Sample Location ^a	Sample I.D.	Approx. Sample Depth (ft bgs)	Date Sampled	Washington State Test Method			EPA Test Method			
				<u>Total Petroleum Hydrocarbons</u>						
				<u>WTPH-G</u>	<u>TPH-D Extended</u>		<u>BETX 5030/8020</u>			
				Gasoline	Diesel	Motor Oil ^b	Benzene	Ethylbenzene	Toluene	Total Xylenes
				mg/kg			mg/kg			
<u>10,000-Gallon Tank Area</u>										
S1	SS-1-4/97	5	04/23/97	ND	ND	ND	ND	ND	ND	ND
S2	SS-2-4/97	11	04/23/97	—	—	—	—	—	—	—
S3	SS-3-4/97	6	04/23/97	ND	ND	ND	ND	ND	ND	ND
S4	SS-4-4/97	7	04/23/97	ND	ND	ND	ND	ND	0.15	0.71
S5	SS-5-4/97	4	04/23/97	ND	ND	ND	ND	ND	ND	ND
S6	SS-8-4/97	6	04/23/97	ND	ND	ND	ND	ND	ND	ND
S9	S-1	13	04/28/97	ND	ND	ND	ND	ND	ND	ND
S10	S-2	13	04/28/97	ND	ND	ND	ND	ND	ND	ND
<u>550-Gallon Engine Oil Tank Area</u>										
S5	SS-5-4/97	4	04/23/97	ND	ND	ND	ND	ND	ND	ND
S6	SS-6-4/97	3	04/23/97	ND	ND	ND	ND	ND	ND	ND
S7	SS-7-4/97	7	04/23/97	ND	ND	ND	ND	ND	ND	ND
Method Reporting Limit				5	25	50	0.05	0.05	0.05	0.05
Cleanup Levels ^c				100	200	200	0.5	20	40	20

Notes:

Samples analyzed by OnSite Environmental Inc. of Redmond, Washington.

a) See Figure 3 for sample locations.

b) Quantified using 30-weight motor oil as a standard.

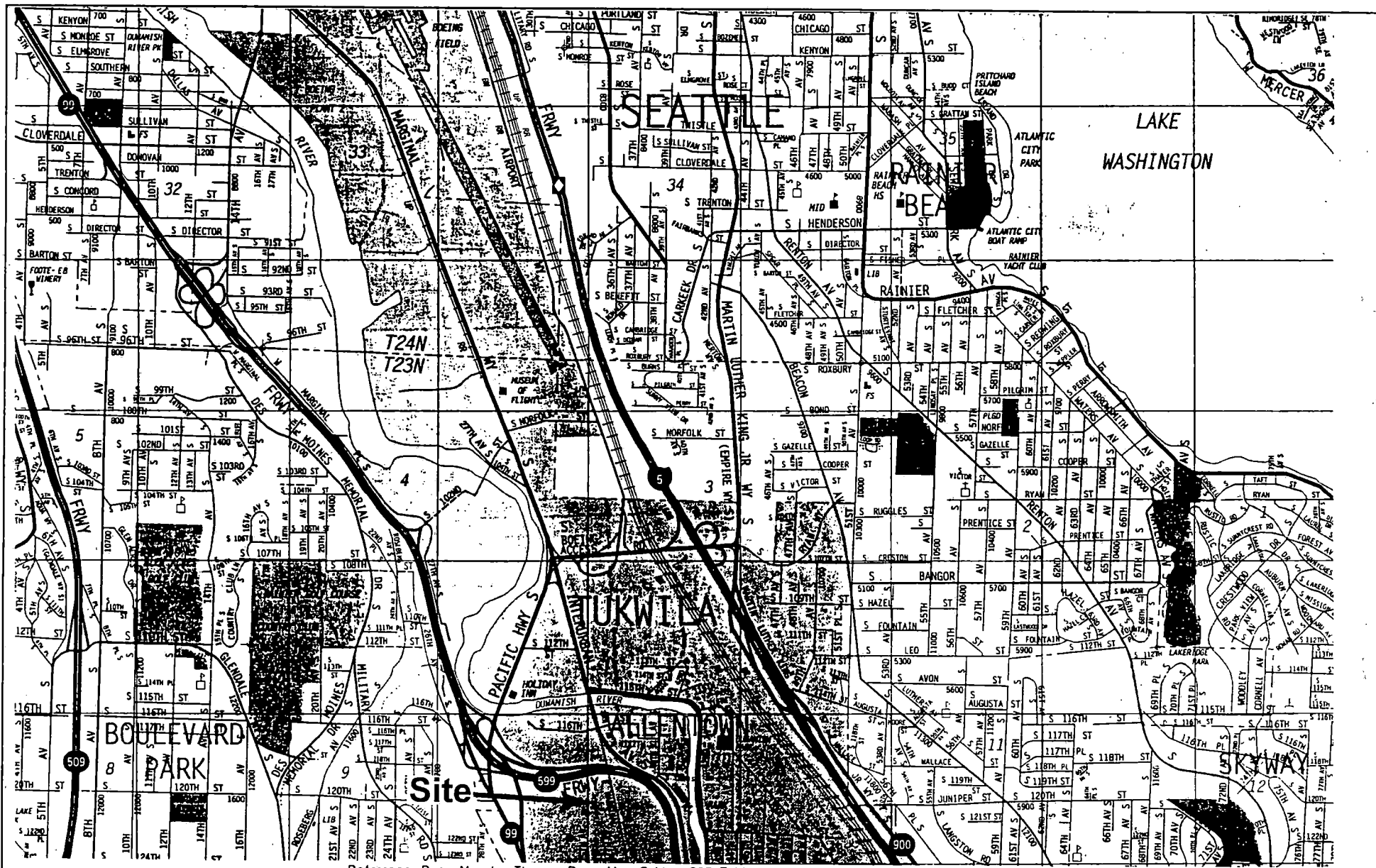
c) Method A suggested cleanup level for residential soil promulgated under Washington Administrative Code Chapter 173-340, State of Washington Model Toxics Control Act Cleanup Regulation.

ft bgs - Feet below ground surface.

ND - Not detected.

mg/kg - Milligrams per kilogram.

— Not analyzed.



Reference: Base Map by Thomas Bros. Map Guide, 1997 Edition.

AGI
TECHNOLOGIES

Vicinity Map

Metro/Maintenance Facilities South
Tukwila, Washington

FIGURE

1

0 2400
Approximate Scale in Feet

309308vm.dwg

PROJECT NO.
14,309,308

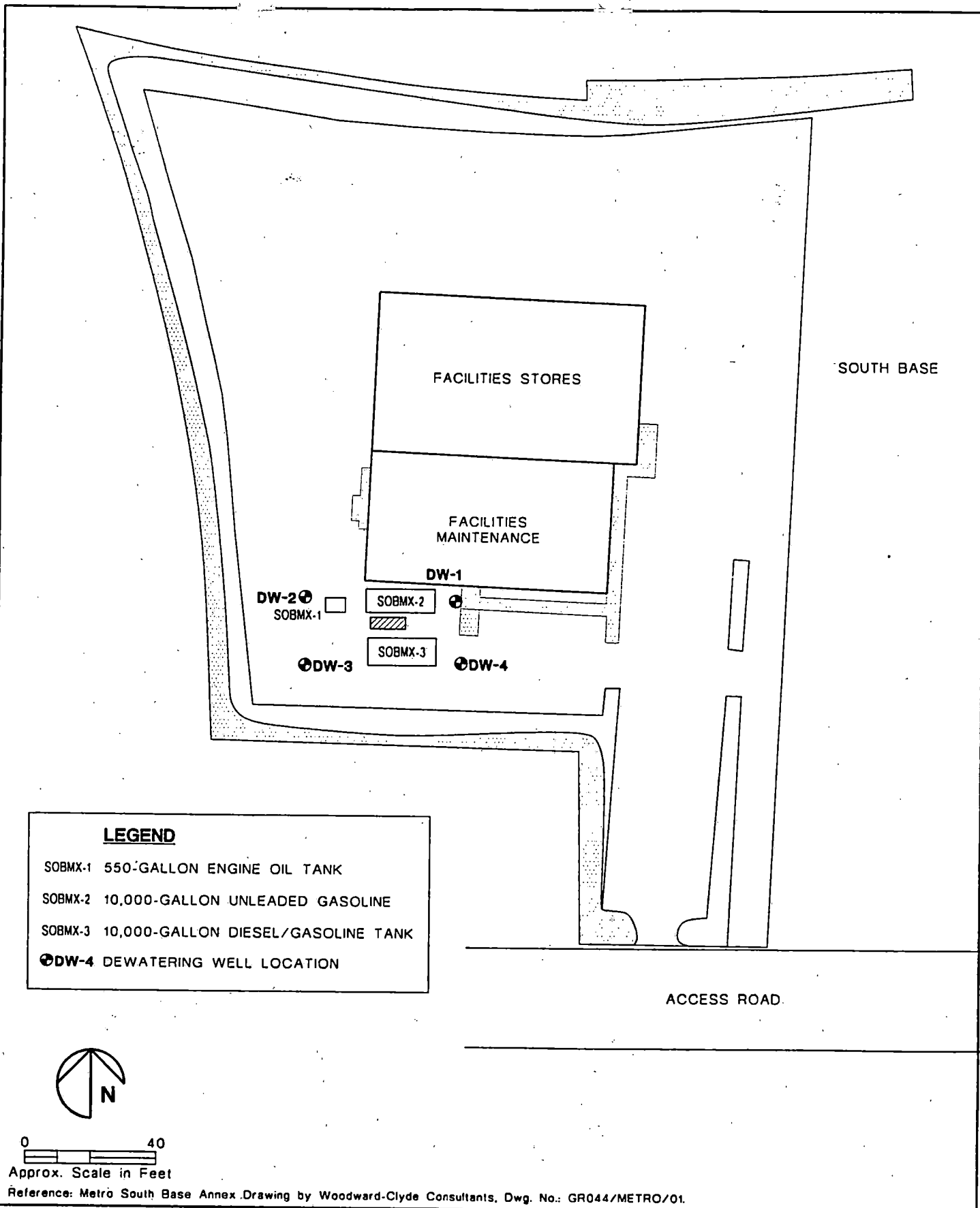
DRAWN
ALW

DATE
20 May 97

APPROVED
SEP

REVISED

DATE



APPROXIMATE
OUTLINE OF
REMOVED CONCRETE

FACILITIES STORES

SOUTH BASE

FACILITIES
MAINTENANCE

DW-2
SOBMX-1

DW-3

S3

S2

S1

S4

S10

S6

S9

DW-1

S3

S2

S1

S4

S10

S6

S9

APPROXIMATE OUTLINE
OF TRENCH BOX

LEGEND

SOBMX-1 550-GALLON ENGINE OIL TANK

SOBMX-2 10,000-GALLON UNLEADED GASOLINE

SOBMX-3 10,000-GALLON DIESEL/GASOLINE TANK

⊕ DW-4 DEWATERING WELL LOCATION

● S10 SOIL SAMPLE NUMBER AND LOCATION



0 40

Approx. Scale in Feet

Reference: Metro South Base Annex Drawing by Woodward-Clyde Consultants, Dwg. No.: GR044/METRO/01.

ACCESS ROAD

AGI
TECHNOLOGIES

Sample Location Map

Metro/Maintenance Facilities South
Tukwila, Washington

FIGURE

3

309308S2.DWG

PROJECT NO.
14,309,308

DRAWN
ALW

DATE
19 May 97

APPROVED
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REVISED

DATE

**ANALYTICAL LABORATORY DATA
AND
AGI QUALITY ASSURANCE REPORT**

QUALITY ASSURANCE REPORT

PROJECT AND SAMPLE INFORMATION

Project Name: Metro/Facilities Maintenance South
 Project No.: 14,309.308
 Lab Name: OnSite Environmental Inc. (OEI) - Redmond, WA
 Lab Number: 9704-126, 9704-122, 9704-103
 Sample ID: SS-1-4/97, SS-2-4/97, SS-3-4/97, SS-4-4/97, SS-5-4/97, SS-6-4/97,
 SS-7-4/97, SS-8-4/97, S-1, S-2, TC-4/97
 Matrix: Soil and Water

QUALITY ASSURANCE SUMMARY

All data are of known quality and acceptable for use.

ANALYTICAL METHODS

<u>Parameter</u>	<u>Technique</u>	<u>Method</u>
Gasoline Fuel Hydrocarbons (HC)	GC/FID	WTPH-G
Diesel Fuel HC	GC/FID	WTPH-D
Benzene, Ethylbenzene, Toluene, Xylenes (BETX)	GC/PID	EPA 8020

TIMELINESS^a

<u>Parameter</u>	<u>Date Sampled</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Time Until Extraction</u>	<u>Time Until Analysis</u>
Gasoline Fuel HC	04/23/97	04/29/97	04/29/97	6	6 (28)
Diesel Fuel HC	04/23/97	04/29/97	04/29/97	6	6 (30)
BETX	04/23/97	04/29/97	04/29/97	6	6 (14)

- a - Earliest date sampled and latest date extracted and analyzed per batch are used to verify holding time requirements within individual laboratory reports.
 N/A - Not applicable.
 0 - Numbers in parenthesis indicate recommended holding times.

QUALITY ASSURANCE REPORT**PROJECT AND SAMPLE INFORMATION**

Project Name: Metro/Facilities Maintenance South
Project No.: 14,309.308
Lab Name: OnSite Environmental Inc. (OEI) - Redmond, WA
Lab Number: 9704-126, 9704-122, 9704-103
Sample ID: See Page 1 of 3

FIELD QUALITY CONTROL SAMPLES

Field Duplicates: None collected.

Rinsate: None collected.

Trip Blank: None collected.

LAB QUALITY CONTROL SAMPLES

Method Blank: No analytes were detected at or above the method reporting limits (MRLs) for the following methods:

EPA 8020
WTPH-G
WTPH-D

Matrix Spike: Matrix spike (MS) and MS duplicate (MSD) percent recoveries and relative percent differences (RPDs) are within OEI's control limit criteria for the following methods:

EPA 8020, except for BETX which exceeds control limit criteria. However, samples are not considered to be affected due to dilution of the MS and MSD.

WTPH-G

Blank Spike: Blank spike (BS) and BS duplicate (BSD) percent recoveries and RPDs are within OEI's control limit criteria for the following methods.

WTPH-D

Duplicate: Duplicate RPDs are within OEI's control limit criteria for the following methods:

WTPH-G
WTPH-D
EPA 8020

QUALITY ASSURANCE REPORT**PROJECT AND SAMPLE INFORMATION**

Project Name: Metro/Facilities Maintenance South
Project No.: 14,309.308
Lab Name: OnSite Environmental Inc. (OEI) - Redmond, WA
Lab Number: 9704-126, 9704-122, 9704-103
Sample ID: See Page 1 of 3

Surrogates: Surrogate percent recoveries are within OEI's control limit criteria for the following methods:

EPA 8020
WTPH-G
WTPH-D

SIGNATURES

Prepared by Jan H. Lee Date 5/22/97

Checked by Ray Saslowich Date 5/22/97



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

April 24, 1997

Lance Peterson
AGI Technologies
11811 NE 1st Street, Suite 201
Bellevue, WA 98005

Re: Analytical Data for Project Metro/Facilities
Laboratory Reference No. 9704-103

Dear Lance:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on April 23, 1997.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Andy Bay
Project Chemist

Enclosures

RECEIVED

APR 25 1997

AGI Technologies

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

EPA 602 & WTPH-G

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-103-1
Client ID: TC-4/97

Dilution Factor 1

	Result	Flags	PQL
Benzene	9.5		1.0
Toluene	2.3		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Fluorobenzene Surrogate Recovery	90%		

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

**EPA 602 & WTPH-G
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0423W1

Dilution Factor 1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
TPH-Gas	ND		100
Fluorobenzene Surrogate Recovery	90%		

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

**EPA 602 & WTPH-G
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: ug/L (ppb)

Lab ID:	04-095-1 Original	04-095-1 Duplicate	RPD
Dilution Factor	1	1	
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethyl Benzene	ND	ND	NA
m,p-Xylene	ND	ND	NA
o-Xylene	ND	ND	NA
TPH-Gas	ND	ND	NA
Fluorobenzene			
Surrogate Recovery	91%	92%	

Date of Report: April 24, 1997
 Samples Submitted: April 23, 1997
 Lab Traveler: 04-103
 Project: Metro/Facilities

**EPA 602 & WTPH-G
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-23-97
 Date Analyzed: 4-23-97

Matrix: Water
 Units: ug/L (ppb)

Lab ID spiked @ 50 ppb Dilution Factor	04-095-1 MS 1	Percent Recovery	04-095-1 MSD 1	Percent Recovery	RPD
Benzene	45.6	91	48.2	96	5.5
Toluene	45.0	90	47.3	95	5.0
Ethyl Benzene	45.0	90	48.1	96	6.7
m,p-Xylene	44.6	89	47.7	95	6.7
o-Xylene	44.2	88	47.4	95	7.0
Fluorobenzene					
Surrogate Recovery	93%		98%		

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

WTPH-D

Date Extracted: 4-23-97

Date Analyzed: 4-23-97

Matrix: Water
Units: mg/L (ppm)

Client ID	Lab ID	Dilution Factor	TPH-Diesel C12-C24	o-Terphenyl Surrogate Recovery	Diesel PQL	Flags
TC-4/97	04-103-1	0.02	ND	77%	0.50	

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	o-Terphenyl Surrogate Recovery	Diesel PQL
MB0423W2	0.02	ND	78%	0.50

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	o-Terphenyl Surrogate Recovery	Diesel PQL	Flags
04-095-1	0.02	ND	64%	0.50	
04-095-1 DUP	0.02	ND	59%	0.50	
RPD		NA			

Date of Report: April 24, 1997
Samples Submitted: April 23, 1997
Lab Traveler: 04-103
Project: Metro/Facilities

WTPH-D
SB/SBD QUALITY CONTROL

Date Extracted: 4-23-97
Date Analyzed: 4-23-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	Spike Level	TPH-Diesel C12-C24	Percent Recovery	o-Terphenyl Surrogate Recovery	Diesel PQL
SB0423W1	0.02	2.0	1.68	84	79%	0.50
SB0423W1 DUP.	0.02	2.0	1.51	76	79%	0.50
RPD			10.7			



DATA QUALIFIERS AND ABBREVIATIONS

- A - Due to high sample concentration, amount spiked insufficient for meaningful MS/MSD data recovery.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD outside control limits due to analyte concentration within five times the quantitation limit.
- D - Data from 1:____ dilution.
- E - Value reported exceeds the quantitation range. Value is an estimate.
- F - Surrogate recovery data not available due to the high concentration in the sample.
- G - Insufficient sample quantity for duplicate analysis.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD outside control limited due to sample inhomogeneity. Sample re-extracted and re-analyzed with similar results.
- L - Quantitated from C7-C34 as diesel fuel #2.
- M - Predominantly _____ range hydrocarbons present in the sample.
- N - Hydrocarbons in the gasoline range (C7-toluene) present in the sample.
- N1 - Hydrocarbons in the gasoline range (C7-toluene) present in the sample which are elevating the diesel result.
- O - Hydrocarbons in the heavy oil range (>C24) present in the sample.
- O1 - Hydrocarbons in the heavy oil range (>C24) present in the sample which are elevating the diesel result.
- R - Hydrocarbons outside defined gasoline range present in the sample.
- S - Surrogate recovery data not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - Matrix Spike/Matrix Spike Duplicate RPD outside control limits due to matrix effects.
- V - Matrix Spike/Matrix Spike Duplicate recoveries outside control limits due to matrix effects.
- Z - Interferences were present which prevented the quantitation of the analyte below the detection limit reported.
- ND - Not Detected
- MRL - Method Reporting Limit
- PQL - Practical Quantitation

fild-chaincus pm5-Rev 1/96



Analytical Testing and Mobile Laboratory Services

RECEIVED

MAY -2 1997

AGI Technologies

May 1, 1997

Lance Peterson
AGI Technologies
11811 NE 1st Street, Suite 201
Bellevue, WA 98005

Re: Analytical Data for Project 14,309.308
Laboratory Reference No. 9704-126

Dear Lance:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on April 29, 1997.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Andy Bay", is written over a horizontal line.

Andy Bay
Project Chemist

Enclosures

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

EPA 8020 & WTPH-G

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 04-126-1
Client ID: SS-1-4/97

Dilution Factor 50

	Result	Flags	PQL
Benzene	ND		0.055
Toluene	ND		0.055
Ethyl Benzene	ND		0.055
m,p-Xylene	ND		0.055
o-Xylene	ND		0.055
TPH-Gas	ND		5.5
Fluorobenzene			
Surrogate Recovery	95%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

EPA 8020 & WTPH-G

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 04-126-3
Client ID: SS-3-4/97

04-126-4
SS-4-4/97

Dilution Factor 50 50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.053	ND		0.056
Toluene	ND		0.053	0.15		0.056
Ethyl Benzene	ND		0.053	ND		0.056
m,p-Xylene	ND		0.053	0.087		0.056
o-Xylene	ND		0.053	0.62		0.056
TPH-Gas	ND		5.3	ND		5.6
Fluorobenzene Surrogate Recovery	97%			92%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

EPA 8020 & WTPH-G

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 04-126-5
Client ID: SS-5-4/97

04-126-6
SS-6-4/97

Dilution Factor 50

50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.052	ND		0.051
Toluene	ND		0.052	ND		0.051
Ethyl Benzene	ND		0.052	ND		0.051
m,p-Xylene	ND		0.052	ND		0.051
o-Xylene	ND		0.052	ND		0.051
TPH-Gas	ND		5.2	ND		5.1
Fluorobenzene Surrogate Recovery	95%			92%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

EPA 8020 & WTPH-G

Date Extracted: 4-29-97

Date Analyzed: 4-29-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: 04-126-7

Client ID: SS-7-4/97

04-126-8

SS-8-4/97

Dilution Factor 50

50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.052	ND		0.054
Toluene	ND		0.052	ND		0.054
Ethyl Benzene	ND		0.052	ND		0.054
m,p-Xylene	ND		0.052	ND		0.054
o-Xylene	ND		0.052	ND		0.054
TPH-Gas	ND		5.2	ND		5.4
Fluorobenzene						
Surrogate Recovery	94%			89%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

**EPA 8020 & WTPH-G
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-29-97

Date Analyzed: 4-29-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: MB0429S1

Dilution Factor 50

	Result	Flags	PQL
Benzene	ND		0.050
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Fluorobenzene Surrogate Recovery	106%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

**EPA 8020 & WTPH-G
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	04-026-7 Original	04-026-7 Duplicate	RPD
Dilution Factor	50	50	
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethyl Benzene	ND	ND	NA
m,p-Xylene	ND	ND	NA
o-Xylene	ND	ND	NA
TPH-Gas	ND	ND	NA
Fluorobenzene			
Surrogate Recovery	94%	94%	

Date of Report: May 1, 1997
 Samples Submitted: April 29, 1997
 Lab Traveler: 04-126
 Project: 14,309.308

**EPA 8020 & WTPH-G
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-29-97
 Date Analyzed: 4-29-97

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID spiked @ 1 ppm	04-026-7 MS	Percent Recovery	04-026-7 MSD	Percent Recovery	RPD
Dilution Factor	50		50		
Benzene	0.985	99	0.955	96	3.1
Toluene	0.990	99	0.965	97	2.6
Ethyl Benzene	0.990	99	0.955	96	3.6
m,p-Xylene	0.990	99	0.950	95	4.1
o-Xylene	0.990	99	0.945	95	4.7
Fluorobenzene Surrogate Recovery	97%		94%		

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

WTPH-D

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	o-Terphenyl Surrogate Recovery	Diesel PQL	Oil PQL	Flags
SS-1-4/97	04-126-01	1.0	ND	ND	90%	27	55	
SS-3-4/97	04-126-03	1.0	ND	ND	88%	26	52	
SS-4-4/97	04-126-04	1.0	ND	ND	96%	26	53	
SS-5-4/97	04-126-05	1.0	ND	ND	80%	28	56	
SS-6-4/97	04-126-06	1.0	ND	ND	91%	26	52	
SS-7-4/97	04-126-07	1.0	ND	ND	87%	26	51	
SS-8-4/97	04-126-08	1.0	ND	ND	89%	26	52	

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-29-97
Date Analyzed: 4-29-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	o-Terphenyl Surrogate Recovery	Diesel PQL	Oil PQL
MB0429S1	1.0	ND	ND	92%	25	50

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 4-23-97
Date Analyzed: 4-24-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	o-Terphenyl Surrogate Recovery	Diesel PQL	Flags
04-097-1	1.0	72.7	75%	25	
04-097-1 DUP	1.0	73.4	82%	25	
RPD		1.0			

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

WTPH-D
SB/SBD QUALITY CONTROL

Date Extracted: 4-25-97
Date Analyzed: 4-25-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	Spike Level	TPH-Diesel C12-C24	Percent Recovery	o-Terphenyl Surrogate Recovery	Diesel PQL
SB0425S1	1.0	100	107	107	116%	25
SB0425S1 DUP	1.0	100	110	110	109%	25
RPD			2.8			

Date of Report: May 1, 1997
Samples Submitted: April 29, 1997
Lab Traveler: 04-126
Project: 14,309.308

Date Analyzed: 4-28-97

% MOISTURE

Client ID	Lab ID	% Moisture
SS-1-4/97	04-126-01	9.0
SS-3-4/97	04-126-03	4.0
SS-4-4/97	04-126-04	5.0
SS-5-4/97	04-126-05	10
SS-6-4/97	04-126-06	4.0
SS-7-4/97	04-126-07	2.0
SS-8-4/97	04-126-08	8.0



DATA QUALIFIERS AND ABBREVIATIONS

A - Due to high sample concentration, amount spiked insufficient for meaningful MS/MSD data recovery.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD outside control limits due to analyte concentration within five times the quantitation limit.

D - Data from 1:____ dilution.

E - Value reported exceeds the quantitation range. Value is an estimate.

F - Surrogate recovery data not available due to the high concentration in the sample.

G - Insufficient sample quantity for duplicate analysis.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD outside control limited due to sample inhomogeneity. Sample re-extracted and re-analyzed with similar results.

L - Quantitated from C7-C34 as diesel fuel #2.

M - Predominantly _____ range hydrocarbons present in the sample.

N - Hydrocarbons in the gasoline range (C7-toluene) present in the sample.

N1 - Hydrocarbons in the gasoline range (C7-toluene) present in the sample which are elevating the diesel result.

O - Hydrocarbons in the heavy oil range (>C24) present in the sample.

O1 - Hydrocarbons in the heavy oil range (>C24) present in the sample which are elevating the diesel result.

R - Hydrocarbons outside defined gasoline range present in the sample.

S - Surrogate recovery data not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - Matrix Spike/Matrix Spike Duplicate RPD outside control limits due to matrix effects.

V - Matrix Spike/Matrix Spike Duplicate recoveries outside control limits due to matrix effects.

Z - Interferences were present which prevented the quantitation of the analyte below the detection limit reported.

ND - Not Detected

MRL - Method Reporting Limit

PQL - Practical Quantitation

PROJECT INFORMATION					ANALYSIS REQUEST														
Project Manager: <u>Lance Peterson</u>					Laboratory Number: <u>04-126</u>														
Project Name: <u>Metro/South Base UST Closure</u>																			
Project Number: <u>14,309.308</u>																			
Site Location: <u>Tukwila, WA</u> Sampled By: <u>AP</u>																			
DISPOSAL INFORMATION																			
<input checked="" type="checkbox"/> Lab Disposal (return if not indicated)																			
Disposal Method: _____																			
Disposed by: _____ Disposal Date: _____																			
QC INFORMATION (check one)																			
<input type="checkbox"/> SW-846 <input type="checkbox"/> CLP <input type="checkbox"/> Screening <input type="checkbox"/> AGI Std. <input type="checkbox"/> Special																			
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	PETROLEUM HYDROCARBONS	ORGANIC COMPOUNDS	PESTS/PCBs	METALS	LEACHING TESTS	OTHER	NUMBER OF CONTAINERS								
1 SS-1-4/97	4/23/97		soil		XX						1								
2 SS-2-4/97					XX						1								
3 SS-3-4/97					XX						1								
4 SS-4-4/97					XX						1								
5 SS-5-4/97					XX						1								
6 SS-6-4/97					XX						1								
7 SS-7-4/97					XX						1								
8 SS-8-4/97					XX						1								

LAB INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Lab Name: <u>On Site</u>	Total Number of Containers: _____	Signature: <u>Lance Peterson</u>	Time: <u>10:15</u>	Signature: _____	Time: _____	Signature: _____	Time: _____		
Lab Address: <u>Redmond, WA</u>	Chain-of-Custody Seals: Y/N/NA	Printed Name: <u>Lance Peterson</u>	Date: <u>4/29/97</u>	Printed Name: _____	Date: _____	Printed Name: _____	Date: _____		
Via: <u>Courier</u>	Intact?: Y/N/NA	Company: <u>AGI</u>		Company: _____		Company: _____			
Turn Around Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 1 wk.	Received in Good Condition/Cold: _____	RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: 3.			
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA		Signature: <u>V. Krziz</u>		Signature: _____		Signature: _____			
Special Instructions: <u>Please quantify diesel & oil ranges separately</u>		Printed Name: <u>V. Krziz</u>		Printed Name: _____		Printed Name: _____			
		Company: <u>DSE</u>		Company: _____		Company: _____			



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

RECEIVED

MAY -2 1997

AGI Technologies

May 1, 1997

Lance Peterson
AGI Technologies
11811 NE 1st Street, Suite 201
Bellevue, WA 98005

Re: Analytical Data for Project 14, 309.308
Laboratory Reference No. 9704-122

Dear Lance:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on April 28, 1997.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Andy Bay
Project Chemist

Enclosures

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

EPA 8020 & WTPH-G

Date Extracted: 4-28-97
Date Analyzed: 4-28-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 04-122-1
Client ID: S-1

04-122-2
S-2

Dilution Factor 50

50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.070	ND		0.067
Toluene	ND		0.070	0.18		0.067
Ethyl Benzene	ND		0.070	0.070		0.067
m,p-Xylene	ND		0.070	0.21		0.067
o-Xylene	ND		0.070	0.094		0.067
TPH-Gas	ND		7.0	ND		6.7
Fluorobenzene Surrogate Recovery	97%			88%		

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

**EPA 8020 & WTPH-G
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-28-97

Date Analyzed: 4-28-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: MB0428S1

Dilution Factor 50

	Result	Flags	PQL
Benzene	ND		0.050
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Fluorobenzene			
Surrogate Recovery	104%		

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

**EPA 8020 & WTPH-G
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-28-97
Date Analyzed: 4-28-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	04-121-1 Original	04-121-1 Duplicate	RPD
Dilution Factor	50	50	
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethyl Benzene	ND	ND	NA
m,p-Xylene	ND	ND	NA
o-Xylene	ND	ND	NA
TPH-Gas	ND	ND	NA
Fluorobenzene			
Surrogate Recovery	97%	105%	

Date of Report: May 1, 1997
 Samples Submitted: April 28, 1997
 Lab Traveler: 04-122
 Project: 14, 309.308

**EPA 8020 & WTPH-G
 MS/MSD QUALITY CONTROL**

Date Extracted: 4-28-97
 Date Analyzed: 4-28-97

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID spiked @ 1 ppm	04-121-1 MS	Percent Recovery	04-121-1 MSD	Percent Recovery	RPD
Dilution Factor	50		50		
Benzene	1.11	111	1.10	110	1.4
Toluene	1.11	111	1.09	109	1.8
Ethyl Benzene	1.12	112	1.09	109	2.7
m,p-Xylene	1.11	111	1.09	109	2.3
o-Xylene	1.11	111	1.08	108	2.3
Fluorobenzene					
Surrogate Recovery	108%		105%		

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

WTPH-D

Date Extracted: 4-30-97
Date Analyzed: 4-30-97

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	o-Terphenyl Surrogate Recovery	Diesel PQL	Oil PQL	Flags
S-1	04-122-1	1.0	ND	ND	65%	35	70	
S-2	04-122-2	1.0	ND	ND	85%	33	67	

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-30-97
Date Analyzed: 4-30-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	o-Terphenyl Surrogate Recovery	Diesel PQL	Oil PQL
MB0430S1	1.0	ND	ND	84%	25	50

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 4-30-97
Date Analyzed: 4-30-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	o-Terphenyl Surrogate Recovery	Diesel PQL	Flags
04-128-1	1.0	ND	88%	25	
04-128-1 DUP	1.0	ND	93%	25	
RPD		NA			

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

WTPH-D
SB/SBD QUALITY CONTROL

Date Extracted: 4-30-97
Date Analyzed: 4-30-97

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID	Dilution Factor	Spike Level	TPH-Diesel C12-C24	Percent Recovery	o-Terphenyl Surrogate Recovery	Diesel PQL
SB0430S1	1.0	100	103	103	110%	25
SB0430S1 DUP	1.0	100	103	103	112%	25
RPD			0.0			

Date of Report: May 1, 1997
Samples Submitted: April 28, 1997
Lab Traveler: 04-122
Project: 14, 309.308

Date Analyzed: 4-28-97

% MOISTURE

Client ID	Lab ID	% Moisture
S-1	04-122-1	29
S-2	04-122-2	25

AAB

Date 4/28/97 Page 1 of 1

[illegible]



DATA QUALIFIERS AND ABBREVIATIONS

- A - Due to high sample concentration, amount spiked insufficient for meaningful MS/MSD data recovery.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD outside control limits due to analyte concentration within five times the quantitation limit.
- D - Data from 1:____ dilution.
- E - Value reported exceeds the quantitation range. Value is an estimate.
- F - Surrogate recovery data not available due to the high concentration in the sample.
- G - Insufficient sample quantity for duplicate analysis.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD outside control limited due to sample inhomogeneity. Sample re-extracted and re-analyzed with similar results.
- L - Quantitated from C7-C34 as diesel fuel #2.
- M - Predominantly _____ range hydrocarbons present in the sample.
- N - Hydrocarbons in the gasoline range (C7-toluene) present in the sample.
- N1 - Hydrocarbons in the gasoline range (C7-toluene) present in the sample which are elevating the diesel result.
- O - Hydrocarbons in the heavy oil range (>C24) present in the sample.
- O1 - Hydrocarbons in the heavy oil range (>C24) present in the sample which are elevating the diesel result.
- R - Hydrocarbons outside defined gasoline range present in the sample.
- S - Surrogate recovery data not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - Matrix Spike/Matrix Spike Duplicate RPD outside control limits due to matrix effects.
- V - Matrix Spike/Matrix Spike Duplicate recoveries outside control limits due to matrix effects.
- Z - Interferences were present which prevented the quantitation of the analyte below the detection limit reported.
- ND - Not Detected
- MRL - Method Reporting Limit
- PQL - Practical Quantitation

WASHINGTON STATE DEPARTMENT OF ECOLOGY FORMS



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY	
Site ID #:	_____
Owner ID #:	_____

Please ☒ the appropriate box(es)

☐ Temporary Tank Closure ☐ Change-In-Service ☒ Permanent Tank Closure ☒ Site Check/Site Assessment

Site Information

Site ID Number 010103

(Available from Ecology if the tanks are registered)

Site/Business Name South Operating Base Annex

Site Address 11911 East Marginal Way S.

City/State Seattle, WA

Zip Code 98168-2597 Telephone (206) 684-2264

Owner's Signature Christine Handu-Merna

Owner Information

(This form will be returned to this address)

UST Owner/Operator Municipality of Metropolitan Seattle

Mailing Address 821 Second Avenue MS-SF

City/State Seattle, WA

Zip Code 98104-1518 Telephone (206) 684-2266

Tank Closure/Change-In-Service Company

Service Company GLOBAL ENVIRONMENTAL

Certified Supervisor Chris Stokes

Decommissioning Certification No. 1044858-20

Supervisor's Signature Chris Stokes

Address 2763 13th AVE SW

City Seattle State WA Zip Code 98106

Telephone (206) 623-0621

Site Check/Site Assessor

Certified Site Assessor Lance E. Peterson

Address 11811 N.E. 1st St., Suite 201 P.O. Box 3885 (Zip: 98009-3885)

City Bellevue State WA Zip Code 98005 Telephone (425) 453-8383

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
<u>SOBMX-1</u>	<u>4/22/97</u>	<u>Removal</u>	<u>550 gal.</u>	<u>Engine Oil</u>
<u>SOBMX-2</u>	<u>4/22/97</u>	<u>Removal</u>	<u>10,000 gal.</u>	<u>Unleaded Gasoline</u>
<u>SOBMX-3</u>	<u>4/23/97</u>	<u>Removal</u>	<u>10,000 gal.</u>	<u>Diesel</u>

Contamination Present at the Time of Closure

☐ Yes ☒ No ☐ Unknown ☐ No release above minimum amount

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☐ Yes ☐ No

If contamination is present, has the release been reported to the appropriate regional office?

Instructions

Please Read Carefully

This form is to be completed by the tank owner and submitted to Ecology within 30 days of tank closure. Mark the appropriate box(es) for temporary tank closure, permanent tank closure, change-in-service, or site assessment.

Permanent Closure and Change-In-Service require a site assessment be performed.

A. COMPLETING THIS FORM, RETURN TO:

TOXICS CLEANUP PROGRAM
DEPARTMENT OF ECOLOGY
P.O. BOX 47885
OLYMPIA, WA 98504-7885

Site and Owner Information

Fill in the site and owner information. Include the Ecology site number, if known; also, be sure to provide telephone numbers so that any problems can be resolved quickly. The tank owner **MUST** sign this form.

Tank Closure/Change-In-Service Company and Site Check/Site Assessor

List the closure company and fill in the site assessor information for permanent closure or change-in-service. Ask to see the closure company supervisor's IFCI Certification and make sure that the certified supervisor signs this form.

Please note: Individuals performing services **MUST** be certified by the International Fire Code Institute (IFCI), or other nationally recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Tank Information and Contamination Present at Time of Closure

Please fill in the tank information requested using tank ID numbers previously reported to Ecology. In the column entitled "Closure Method," indicate what manner of closure was used, such as closure in place or removal. Check the appropriate box(es) indicating if contamination is present and has been reported. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours [see below for telephone numbers]. If contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, then this form, a site assessment checklist, and a site assessment report must be submitted to the above address within 30 days.

Central	Eastern	Southwest	Northwest
(509) 574-2490 (voice)	(509) 456-2926 (voice)	(360) 407-6300 (voice)	(206) 649-7000 (voice)
(509) 454-7673 (TDD)	(509) 458-2055 (TDD)	(360) 407-6306 (TDD)	(206) 649-4259 (TDD)

The following tanks are exempt from notification requirements:

- ❖ Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.
- ❖ Tanks used for storing heating oil that is used on the premises where the tank is located.
- ❖ Tanks with a capacity of 110 gallons or less.
- ❖ Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- ❖ Emergency overflow tanks, catch basins, or sumps.

For more information, call toll free in the state of Washington 1-800-826-7716 (Message).



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

For Office Use Only

Owner # _____

Site # _____

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 010103

Site/Business Name: South Operating Base Annex (King County Transit Division)

Site Address: 11911 East Marginal Way S. Telephone: (206) 684-2264

Seattle
City

WA
State

98168-2597
ZIP Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>SOBMX-1</u>	<u>550 gal.</u>	<u>Engine Oil</u>
<u>SOBMX-2</u>	<u>10,000 gal.</u>	<u>Unleaded Gasoline</u>
<u>SOBMX-3</u>	<u>10,000 gal.</u>	<u>Diesel</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ☐ Investigate suspected release due to on-site environmental contamination
- ☐ Investigate suspected release due to off-site environmental contamination.
- ☐ Extend temporary closure of UST system for more than 12 months.
- ☐ UST system undergoing change-in-service.
- ☐ UST system permanently closed-in-place.
- ☒ UST system permanently closed with tank removed.
- ☐ Abandoned tank containing product.
- ☐ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ☐ Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

YES NO

1.	The location of the UST site is shown on a vicinity map.	ASP	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	ASP	
3.	A summary of UST system data is provided. (see Section 3.1)	ASP	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	ASP	
5.	Is there any apparent groundwater in the tank excavation?	ASP	
6.	A brief description of the surrounding land use is provided. (see Section 3.1)	ASP	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	ASP	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	ASP	
	- groundwater samples distinguished from soil samples (if applicable)	ASP	
	- samples collected from stockpiled excavated soil	N/A	
	- tank and piping locations and limits of excavation pit	ASP	
	- adjacent structures and streets	ASP	
	- approximate locations of any on-site and nearby utilities	ASP	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	ASP	
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	ASP	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	ASP	
12.	The results of this site check / site assessment indicate that a confirmed release of a regulated substance has occurred.		ASP

(no release above de minimis amount)

SITE ASSESSOR INFORMATION

<u>Lance E. Peterson</u>		<u>AGI Technologies</u>	
Person registered with Ecology		Firm Affiliated with	
Business Address: <u>11811 N.E. 1st St.</u>		Telephone: <u>(425) 453-8383</u>	
<u>Bellevue</u>	<u>WA</u>	<u>98005</u>	
City	State	ZIP+Code	
I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.			
<u>6/16/97</u>	<u>Lance E. Peterson</u>		
Date	Signature of Person Registered with Ecology		