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LIMITED PHASE II ENVIRONMENTAL ASSESSMENT
LONG PAINTING COMPANY FACILITY
8025 10TH AVENUE SOUTH
SEATTLE, WASHINGTON

Submitted To:

Long Painting Company
8025 10th Avenue South
Seattle, Washington 98108

Submitted By:

AGRA Earth & Environmental, Inc.
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

September 1997

7-91M-11802-A

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12 September 1997
7-91M-11802-A

Long Painting Company
8025 10th Avenue South
Seattle, Washington 98108

Attention: Mr. Mike Cassidy

Subject: Limited Phase II Environmental Assessment
Long Painting Company Facility
8025 10th Avenue South
Seattle, Washington

Dear Mr. Cassidy:

AGRA Earth & Environmental, Inc. (AEE) is pleased to present the results of our Limited Phase II Environmental Assessment for the Long Painting Company facility in Seattle, Washington. Our work was performed in general accordance with our proposal dated 19 August 1997. AEE's Phase I investigation report, dated 19 August 1997, indicated the potential for soil and/or groundwater contamination at the subject site was high due to on-site activities and off-site conditions. The purpose of our Phase II Assessment was to investigate subsurface conditions at the facility for the possible presence of contaminants impacting ground and groundwater.

AEE appreciates the opportunity to be of service to you on this project. Should you have any questions concerning this report, or if we can be of assistance in any other way, please feel free to contact us.

Respectfully submitted,

AGRA Earth & Environmental, Inc.

John T. Cooper
Project Geologist

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1.0 INTRODUCTION

AEE was retained by Long Painting Company to conduct a Limited Phase II Environmental Site Assessment of the Long Painting Company facility located at 8025 10th Avenue South in Seattle, King County, Washington. The facility includes developed lots with residential and office buildings, paint spray booth buildings, material storage and recycling area's an automotive maintenance and repair complex, and a fueling station. The purpose of this assessment was to investigate the subsurface soil and groundwater conditions at the subject site for the presence of contaminants which may have been released by on-site operations and/or off-site activities. The scope of work for this assessment consisted of collecting soil and groundwater samples at strategic locations. The samples were analyzed for suspected contaminants indicative of the recognized environmental condition identified at each location. This report presents the results of this assessment which was performed in accordance with our proposal dated 18 August 1997. The scope of AEE's investigation included the following tasks:

- A site exploration program which consisted of the advancement of eight test borings. Three soil samples were obtained from each boring and screened for indications of contaminants.

- A groundwater sampling program which included installing a monitoring well in six of the soil borings, development of the monitoring wells and the collection of groundwater samples.

- A laboratory program which included submitting one soil sample from each boring and one groundwater sample from each monitoring well for laboratory analysis by one or more of the following methods: Washington method WTPH-HCID for hydrocarbon identification, Washington method WTPH-G for gasoline-range hydrocarbons, Washington method WTPH-D extended for diesel- and heavier range hydrocarbons, EPA method 602 for BTEX compounds, EPA method 8260 for halogenated volatile compounds, and for eight RCRA metals by EPA Method 6010/700 series.

- Preparation of this Limited Phase II Environmental Assessment report documenting the findings of the study.

This report describes our site observations and exploration methods, discusses soil and groundwater analytical results, and presents our conclusions with respect to current environmental conditions.

2.0 PROJECT DESCRIPTION

The site is located at 8025 10th Avenue South in Seattle, Washington. The properties and surrounding area are indicated on Figure 1, *Site Location Map*, and on Figure 2, *Site Vicinity Map*. The subject site consists of approximately 5 acres developed with buildings, parking lots, and landscaping located south of Seattle, west, and adjacent to the Duwamish River. The existing Long Painting Company facility is roughly rectangular in shape and trends east-west, aligned perpendicular to the Duwamish River.

The subject site is relatively flat-lying, on the gentle western slope rising from the Duwamish River, which passes adjacent to the eastern boundary of the site. Topography is generally flat-lying with maximum relief across the site estimated to be between 1 and 3 feet. The subject parcel is situated at an elevation ranging from about 10 to 15 feet above Mean Sea Level.

Figures 3A and 3B, *Site Plans*, indicate the shape of the property and the locations of the buildings on site. The larger buildings on site have generally been constructed for paint application, storage, or for material preparation. The smaller residential buildings have been altered for office space or modified for storage at various times dating from about the 1940's to 1997. Some of the residential buildings have remained as residential homes for employees of Long Painting Company. The Nelson building and associated property were not included in this Phase II Environmental Site Assessment and are not represented on the *Site Plan*.

The subject site consists of commercial paint application buildings, automotive maintenance and repair facilities, retail facilities, office buildings and residential buildings. The residential and office buildings appear to generally consist of slab-on-grade construction with brick and/or wood-frame construction. The commercial paint application buildings are either wood or steel frame construction and metal or wood siding. The Long Painting Company facility is bounded by residential and commercial development on the north, south, and west. Beyond the residential development to the north and west are industrial facilities. The Long Painting Company complex is bordered on the east by the Duwamish River beyond which is the Boeing complex. The Long Painting Company complex is generally soil faced with asphalt or concrete paving and enclosed by an 8-foot-high perimeter fence.

2.1 Previous Work

AEE completed a Phase I Environmental Site Assessment of the subject site and submitted a report dated August 19, 1997. The Phase I Environmental Assessment included the following:

- A site reconnaissance of the subject site and surrounding area;
- A review of regulatory agency files and database lists;

- A survey of geologic maps, topographic maps and water well logs;
- A review of historical business directories and aerial photographs of the project site;
- A review of information regarding the subject site provided by Long Painting Company;
- Personal interviews with site personnel, or other knowledgeable individuals regarding the project site and adjacent properties; and,
- Preparation of a Phase I Environmental Assessment Report documenting the findings of the study.

The report conclusions indicated the subject site has a high potential for significant environmental contamination to exist on the subject property from either past or current on-site land use activities and offsite conditions. Based on these results, AEE recommended performing a Phase II environmental assessment to identify any environmental impacts that may have occurred to the ground and groundwater.

3.0 EXPLORATORY METHODS

AEE explored surface and subsurface conditions at the project site during August 1997. Our subsurface exploration program for this project consisted of the advancement of eight test borings and the installation of monitoring wells in six of the eight borings. The specific number, locations, and depths of our explorations were selected in relation to existing site features and utilization, under the constraints of surface access, underground utility conflicts, and budget considerations.

Boring B-1 (MW-1) was located adjacent to a underground heating fuel tank to assess the subsurface conditions for an indication of a heating fuel release. Borings and monitoring wells MW-2, MW-3 and MW-8 were positioned near the perimeter of the site to assess the groundwater for the possible migration of contaminants from offsite sources. Boring B-4 was located adjacent to a paint mixing location to assess potential impacts to the near surface soil. Boring B-5 (MW-5) was located adjacent to the hazardous materials storage area and the solvent recycling station to assess the ground and groundwater for the presence of solvents or metals (commonly associated with paint). Boring B-6 (MW-6) was located adjacent to underground storage tanks containing diesel and gasoline to assess the subsurface conditions for an indication of gasoline and/or diesel range hydrocarbons. Boring B-7 was located in the vicinity of the 55 gallon barrels containing shot blast media to assess the near surface soil for the presence of metals. Boring B-8 (MW-8) was located adjacent to a former solvent storage area to assess the near surface soil and groundwater for the presence of solvents.

We estimated the relative location of each exploration by measuring pertinent site features and scaling the measured exploration locations onto a site sketch. Consequently, the

locations depicted on Figure 2 should be considered accurate only to the degree implied by our measuring methods.

It should be realized that the explorations performed for this evaluation reveal subsurface conditions only at discrete locations across the project site and that actual conditions in other areas could vary. If significant variations are observed at any time, we may need to modify our conclusions and recommendations contained in this report to reflect the actual site conditions.

3.1 Soil Boring Procedures

Eight exploratory borings (B-1 through B-8) were advanced on 25 and 26 August 1997 by Environmental Drilling Incorporated of Seattle, Washington using a truck-mounted drill rig and hollow-stem auger drilling methods. Soil boring locations are presented on Figures 3A and 3B, and soil boring logs are included in Appendix A. All soil borings were drilled to a depth of approximately 15 feet below site grade. A geologist from our firm continuously observed the borings, logged the subsurface conditions, and collected representative soil samples. All samples were stored in laboratory prepared containers and transported to an analytical laboratory for testing. After soil borings B-1, B-2, B-3, B-5, B-6 and B-8 were completed, a monitoring well was installed in each one of the borings. Well construction procedures are discussed below in Section 3.3 of this report. A monitoring well was not installed in either boring B-4 or B-7; these borings were backfilled with a mixture of bentonite chips and soil cuttings.

Throughout the drilling operation, soil samples were obtained at 5-foot depth intervals by means of the Standard Penetration Test (SPT) per ASTM:D-1586. This testing and sampling procedure consists of driving a standard 2-inch-diameter steel split-spoon sampler 18 inches into the soil with a 140-pound hammer free-falling 30 inches. The number of blows required to drive the sampler through each 6-inch interval is counted, and the total number of blows struck during the final 12 inches is recorded as the Standard Penetration Resistance, or "SPT blow count." If a total of 50 blows is struck within any 6-inch interval, the driving is stopped and the blow count is recorded as 50 blows for the actual penetration distance. The resulting Standard Penetration Resistance values indicate the relative density of granular soils and the relative consistency of cohesive soils.

The enclosed *Boring Logs* describe the vertical sequence of soils and materials encountered in each boring, based primarily on our field classifications. Where a soil contact was observed to be gradational, our logs indicate the average contact depth. Where a soil type changed between sample intervals, we inferred the contact depth. Our logs also indicate the blow count, sample type, sample number, and approximate depth of each soil sample obtained from the borings. If any groundwater was encountered in a borehole, the approximate groundwater depth is depicted on the boring log. Groundwater depth estimates are typically based on the

moisture content of soil samples, the wetted height on the drilling rods, and the water level measured in the borehole or monitoring well. Lithologic descriptions and observations are presented on boring logs in Appendix A.

3.2 Soil Sampling

Upon collection, soil samples were visually classified, field-screened and immediately placed in labelled, laboratory-prepared glass jars or containers and placed in a chilled cooler for storage and transport. Based on the results of field-screening, one soil sample selected from each boring was transported and submitted to OnSite Environmental Laboratory of Redmond, Washington for analysis.

The field-screening procedure consisted of placing approximately 4 ounces of soil in a sealable plastic bag, that was agitated after 5 to 10 minutes. The resulting atmosphere or "head space" of the plastic bag was screened by inserting a photoionization detector (PID) probe equipped with a 10.2eV (electron volt) ultraviolet lamp into the plastic bag. The relative reading recognized by the instrument is then recorded where appropriate on the boring logs, and represents a qualitative assessment of total volatile organic constituent (VOC) concentrations in the sample head space. The PID is not capable of distinguishing between individual compounds, and only measures compounds that have ionization potentials less than the energy of the ultraviolet source in the lamp (10.2eV). Field screening did not indicate the presence of volatile organic vapors in any of the soil samples.

3.3 Monitoring Well Installation

Subsequent to drilling, soil borings, B-1, B-2, B-3, B-5, B-6 and B-8 were completed as groundwater monitoring wells using 2-inch-diameter, flush-threaded Schedule-40 PVC well-casing and 0.010-inch machine-slotted screen. All monitoring wells were installed and completed in accordance with Chapter 173-160 WAC *Minimum Standards for Construction and Maintenance of Wells*. Well completion details are shown on the boring logs in Appendix A. The top 2 feet of each well was completed with concrete, and a steel, traffic-rated, flush-mounted monument was placed over the top of each well. Each well casing was secured with a waterproof, locking cap. Following installation, each well was developed prior to sampling. The approximate locations of the monitoring wells completed during this study are shown on Figures 3A and 3B. Drill cuttings and well development water were placed in 55-gallon drums for on-site storage pending analytical results.

3.4 Groundwater Sampling

After monitoring well installation activities were completed, fluid levels in the wells were measured with a water level indicator probe, which measures the depth to groundwater relative to the top of the well casing. A representative groundwater sample was obtained from each well on 26 August 1997 by first removing a minimum of eight to ten well volumes of water. The water level was then allowed to stabilize and a groundwater sample was

collected with a disposable polyethylene bailer and decanted from the bailer into laboratory-prepared glass jars or containers and placed in a chilled cooler for storage and transport. After collecting the groundwater samples from the monitoring wells, the samples were transported to OnSite Environmental Laboratory in Redmond, Washington for analysis.

4.0 SUBSURFACE CONDITIONS

The following sections of text present our observations, and interpretations regarding environmental soil and groundwater conditions at the project site. Descriptive logs of our subsurface explorations and tabulated results of our laboratory test results are enclosed with this report.

4.1 Surface Conditions

The project site is situated in a north-south trending river valley southwest of Seattle. The Duwamish River flows through the valley adjacent and east of the site. The Duwamish River discharges to Elliot Bay and Puget Sound north of the subject site. According to the U.S.G.S. topographic map (Seattle South Quadrangle) of the area, the site is situated at an elevation of approximately 10 to 15 feet above mean sea level, and site topography is generally flat-lying. The existing grades on the site are likely a result of geomorphic processes with some alteration due to river dredging or grading from previous developments.

4.2 Soil Conditions

Lithologic descriptions and field screening results are presented where appropriate on the boring logs in Appendix A. Soil conditions encountered at each of the four boring locations on the eastern portion of the site were relatively uniform. Underlying an approximately one-half foot section of either concrete, asphalt or corresponding base course, our explorations generally encountered loose, damp to moist, brown to gray, fine sand with varying amounts of silt and gravel. This sand layer generally was present at depths ranging from 1 to 10 feet below ground surface and was immediately underlain by a loose to medium dense, wet to saturated, medium to coarse sand.

Soil conditions encountered at each of the four boring locations on the western portion of the site were relatively uniform, but differed slightly from conditions encountered beneath the eastern portion. Underlying an approximately one-half foot section of either concrete, asphalt or corresponding base course, our explorations generally encountered soft to firm, damp to moist, brown to gray, fine sandy silt. This silt layer generally was present at depths ranging from 1 to 10 feet below ground surface and was immediately underlain by a loose to medium dense, wet to saturated, medium to coarse sand.

4.3 Groundwater Conditions

At the time of drilling (25 & 26 August 1997), wet soil conditions were encountered in all borings at depths ranging from about 10 to 12.5 feet below existing grades. Installation of

monitoring wells in the borings to a depth of 15 feet below site grade indicated groundwater levels ranging from 9 to 11 feet below site grade. Because our explorations were performed during an extended period of dry weather, these groundwater measurements may closely represent the yearly low levels; somewhat higher levels probably occur during the winter and early spring months. At all times of the year, groundwater levels would likely fluctuate in response to precipitation patterns, off-site construction activities, tidal fluctuations and site utilization. Groundwater migration directions are inferred to be towards the Duwamish River east of the subject site. Actual groundwater migration directions are likely highly variable depending on tidal influences.

5.0 LABORATORY ANALYTICAL RESULTS

Soil and groundwater samples collected from the soil borings and monitoring wells were submitted to OnSite Environmental laboratories of Redmond Washington. The soil and groundwater samples were submitted for analysis of the following:

- Soil samples obtained from boring B-6 and groundwater samples obtained from monitoring wells MW-2, MW-3 and MW-8 were submitted for hydrocarbon identification analysis by Washington method WTPH-HCID;
- Groundwater samples obtained from monitoring well MW-6 were submitted for gasoline range hydrocarbons analysis by Washington method WTPH-G;
- Soil and groundwater samples obtained from boring B-1/monitoring well MW-1 were submitted for analysis of diesel and heavier range hydrocarbons by Washington method WTPH-D extended;
- Groundwater samples obtained from monitoring well MW-6 were submitted for analysis of BTEX compounds by EPA method 602;
- Soil and groundwater samples obtained from borings B-5 and B-8 and monitoring wells MW-5 and MW-8 were submitted for halogenated volatile compound analysis by EPA method 8260; and,
- Soil samples obtained from borings B-4 and B-7 and a groundwater sample collected from monitoring well MW-5 was submitted for RCRA metals analysis (arsenic, barium cadmium, chromium, lead, mercury, selenium and silver) by EPA method 6010/7000.

Laboratory-reported analytical results for soil samples are summarized in Table 1. Laboratory-reported analytical results for groundwater samples are summarized in Table 2. Laboratory test certificates and chain-of-custody documents are presented as Appendix B.

5.1 Soil Analytical Results

The analytical results of soil samples collected at the site indicated the following:

- Concentrations of diesel and heavy oil-range petroleum hydrocarbons were not detected in the soil samples collected form B-1 and B-6 that were submitted for petroleum hydrocarbon analysis;

- Concentrations of gasoline-range petroleum hydrocarbons were not detected in the soil sample collected from Boring B-6 at a depth of 7½ to 9 feet below site grade;

- Concentrations of halogenated volatiles (solvents) were not detected in the soil samples collected from borings B-4, B-5 and B-8 with the exception of methylene chloride. The presence of trace amounts of methylene chloride in the samples were reported to be a result of laboratory analysis procedures and likely do not represent on-site conditions;

- Concentrations of RCRA metals consisting of arsenic, barium, cadmium, chromium and lead were reported in the soil samples collected from borings B-4 and B-7. The reported concentrations are below Washington's Model Toxics Control Act Method A action levels for industrial sites. The metals present in the soil samples may be representative of naturally occurring conditions.

The analytical results are presented in Table 2 and in the laboratory test reports included in Appendix B.

Table 1
Summary of Laboratory Analytical Results-Soil

	B-6/S-2	B-5/S-2	B-8/S-2	B-7/S-1	B-1/S-3	B-4/S-1
Gas range HC	ND	NA	NA	NA	NA	NA
Diesel range HC	ND	NA	NA	NA	ND	NA
Oil range HC	ND	NA	NA	NA	ND	NA
Methylene Chloride*	NA	0.20 ppm	0.17 ppm	NA	NA	0.24 ppm
Halogenated Volatiles	NA	ND	ND	NA	NA	ND
Arsenic	NA	NA	NA	82 ppm	NA	ND
Barium	NA	NA	NA	130 ppm	NA	43 ppm
Cadmium	NA	NA	NA	0.58 ppm	NA	ND
Chromium	NA	NA	NA	52 ppm	NA	9.6 ppm
Lead	NA	NA	NA	170 ppm	NA	ND
Mercury	NA	NA	NA	ND	NA	ND
Selenium	NA	NA	NA	ND	NA	ND
Silver	NA	NA	NA	ND	NA	ND

Notes: ppm - indicates parts per million
ND - indicates not detected by the analysis method
NA - indicates not analyzed
HC - indicates hydrocarbons
* - suspected laboratory contaminant

5.2 Groundwater Analytical Results

The analytical results of groundwater samples collected at the site indicated the following:

- Concentrations of diesel and heavy oil-range petroleum hydrocarbons were not detected in the five groundwater samples submitted for petroleum hydrocarbon analysis;

- Concentrations of gasoline-range petroleum hydrocarbons and BTEX compounds were not detected in groundwater samples obtained from monitoring well MW-6;

- Concentrations of halogenated volatiles (solvents) were not detected in the groundwater samples collected from monitoring wells MW-5 and MW-8 with the exception of methylene chloride and chloroform. Representatives of the analytical laboratory indicated the presence of trace amounts of methylene chloride were reported to be a result of laboratory analysis procedures and likely do not represent on-site conditions. However, chloroform was present in the groundwater samples but at concentrations below Washingtons MTCA method B action levels. The presence of chloroform in the groundwater samples collected from MW-5 and MW-8 may indicate a release of chloroform has occurred on the subject site or adjacent properties. These concentrations are below state MTCA Method B levels for groundwater.

- Concentrations of RCRA metals consisting of arsenic, barium, chromium and lead were reported in the groundwater sample collected from monitoring well MW-5. The reported concentrations are generally below MTCA method A action levels with the exception of arsenic and lead.

Based on the concentrations of lead, barium and arsenic reported in the soil samples collected from boring B-5 and the high turbidity of the groundwater sample collected from the monitoring well installed in boring B-5, the groundwater sample was submitted for analysis of dissolved lead, barium, and arsenic. This analysis involves filtering the groundwater sample to reduce the sample turbidity by removing the sediments and re-analysis for total lead, barium and arsenic by EPA method 6010/7000 series. The results of the analysis indicated concentrations of dissolved lead, and barium are present in the groundwater sample, but at concentrations below MTCA Method A action levels for groundwater. Arsenic was reported as non-detectable. The analytical results are presented in Table 2 and in the laboratory test reports included in Appendix B.

Table 2
Summary of Laboratory Analytical Results-Groundwater

	MW-1	MW-2	MW-3	MW-5	MW-6	MW-8
Gas range HC	NA	ND	ND	NA	ND	ND
Diesel range HC	ND	ND	ND	NA	ND	ND
Oil range HC	ND	ND	ND	NA	ND	ND
BTEX	NA	NA	NA	NA	ND	NA
Methylene Chloride*	NA	NA	NA	3.5 ppb	NA	3.3 ppb
Chloroform	NA	NA	NA	2.6 ppb	NA	4.1 ppb
Halogenated Volatiles	NA	NA	NA	ND	NA	ND
Arsenic	NA	NA	NA	15 ppb	NA	NA
Barium	NA	NA	NA	180 ppb	NA	NA
Cadmium	NA	NA	NA	ND	NA	NA
Chromium	NA	NA	NA	13 ppb	NA	NA
Lead	NA	NA	NA	41 ppb	NA	NA
Mercury	NA	NA	NA	ND	NA	NA
Selenium	NA	NA	NA	ND	NA	NA
Silver	NA	NA	NA	ND	NA	NA
Dissolved Lead	NA	NA	NA	1.4 ppb	NA	NA
Dissolved Arsenic	NA	NA	NA	ND	NA	NA
Dissolved Barium	NA	NA	NA	100ppb	NA	NA

Notes: ppb - indicates parts per billion
ND - indicates not detected by the analysis method
NA - indicates not analyzed
HC - indicates hydrocarbons
BTEX - Indicates Benzene, Toluene, Ethyl benzene and Xylene
* - suspected laboratory contaminant

6.0 CONCLUSIONS AND RECOMMENDATIONS

AEE was retained by Long Painting Company to conduct a limited Phase II Environmental Site Assessment of the Long Painting Company facility located at 8025 10th Avenue South in Seattle, King County, Washington. The facility includes developed lots with residential and office buildings, paint spray booth buildings, an automotive maintenance, repair complex and fueling station.

AEE completed a Phase I Environmental Site Assessment of the subject site and submitted a report dated August 19, 1997. The report conclusions indicated the subject site has a high potential for significant environmental contamination to exist on the subject property from either past or current on-site land use activities and offsite conditions. Based on these results, AEE recommended performing a Phase II environmental assessment to identify any environmental impacts that may have occurred to the ground and groundwater from on-site operations and/or off-site activities. The scope of work for this Phase II assessment consisted of collecting soil and groundwater samples at strategic locations and analyzing the samples for suspected contaminants indicative of the location.

The results of this Phase II assessment and laboratory analysis indicated the subject site does not appear to be adversely impacted by on-site activities or off-site conditions. Indications of the presence of significant environmental impact was not observed during our explorations and were generally not indicated by laboratory analysis. However, the test reports did indicate the presence of lead and arsenic in the groundwater sample collected from monitoring well MW-5 at concentrations above state regulatory action levels. Based on these concentration the groundwater was filtered and analyzed for the presence of dissolved lead and arsenic. The results of the analysis reported both lead and arsenic concentrations below state regulatory action levels. The higher total lead and arsenic levels reported were most likely due to background conditions and the high turbidity of the sample collected.

No solvent or extractant was identified by laboratory analysis. However, the presence of trace amounts of chloroform in the groundwater sample collected from monitoring well MW-5 is likely from an artificial source and may indicate an historical release of chloroform, a chlorinated solvent, or an extractant that impacted the groundwater. The concentration of chloroform was reported at concentrations below state regulatory action levels.

7.0 CLOSURE

AGRA Earth & Environmental, Inc. appreciates the opportunity to be of continued service to Long Painting Company. If you have any questions regarding the contents of this report or other aspects of the project, please do not hesitate to contact us at your earliest convenience.

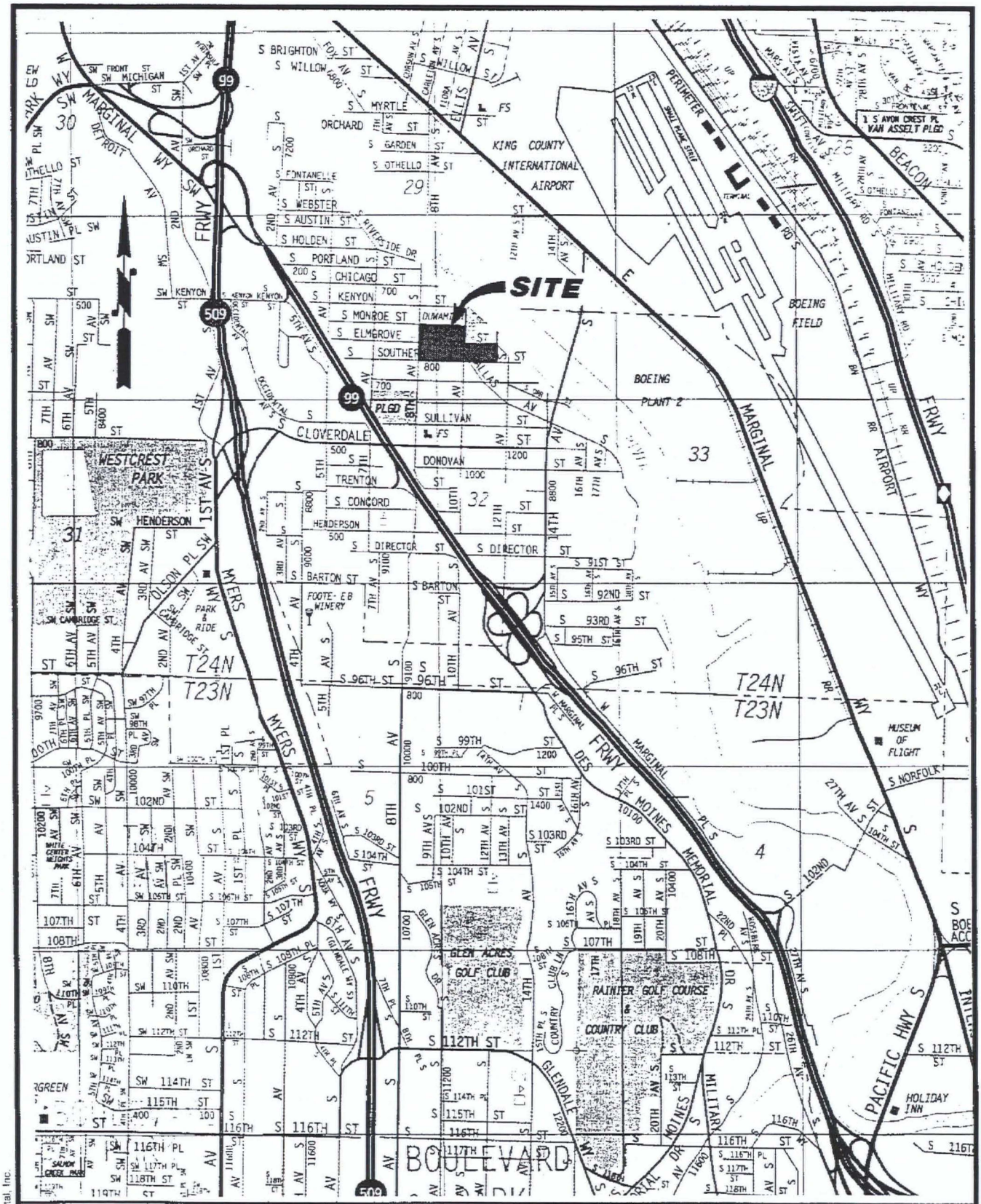
Respectfully submitted,

AGRA Earth & Environmental, Inc.

John T. Cooper
Project Geologist

F. Skip Allred
Senior Project Scientist

JTC/FSA/clt



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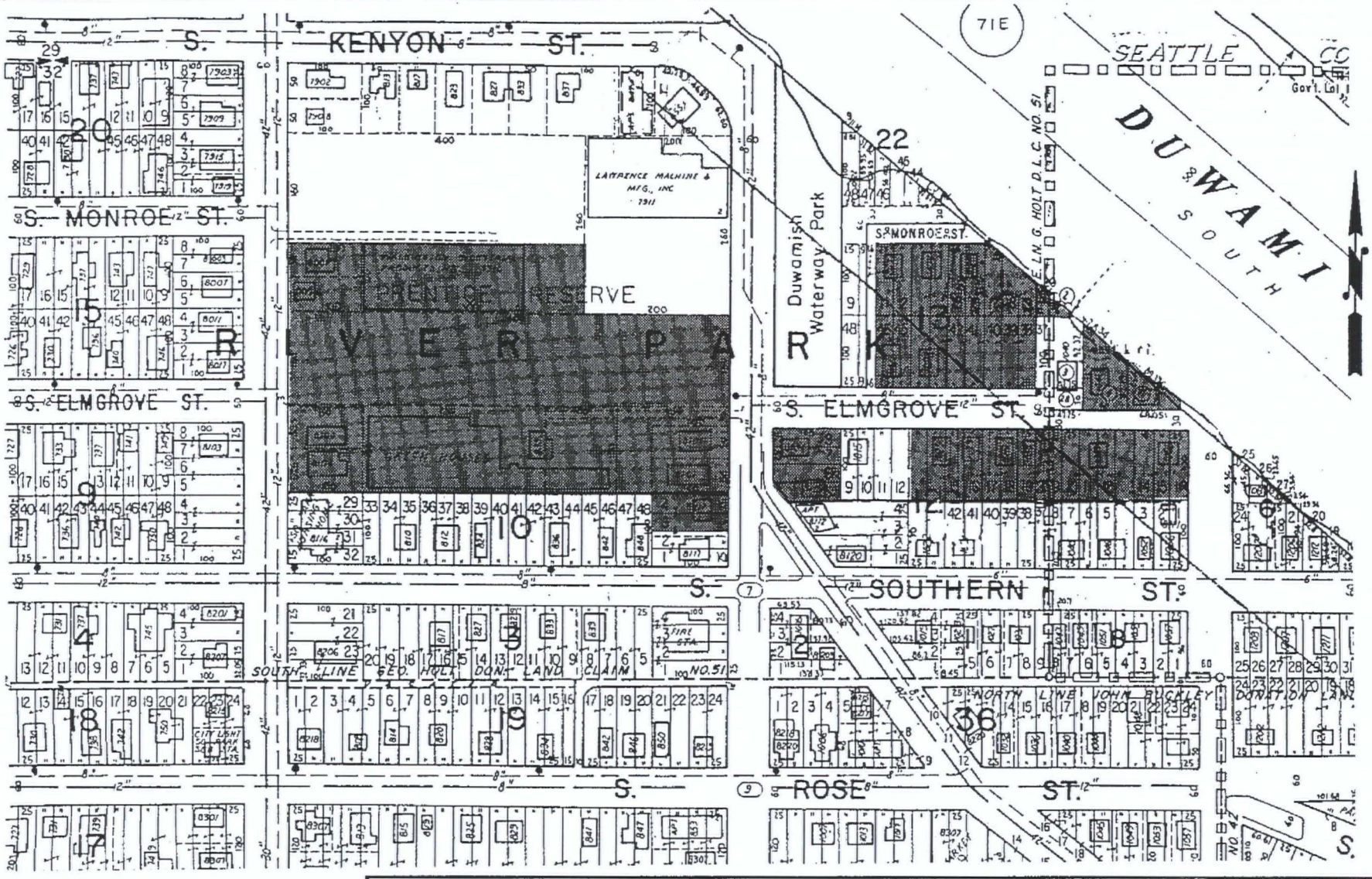
DATE	JUL 1997
SCALE	N.T.S.

LONG PAINTING COMPANY
8025 10th AVENUE S.
SEATTLE, WASHINGTON

LOCATION MAP

FIGURE 1

AGRA Earth & Environmental, Inc.



SUBJECT PROPERTY

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LONG PAINTING COMPANY
8025 10th AVENUE S.
SEATTLE, WASHINGTON

SITE VICNITY MAP

FIGURE 2

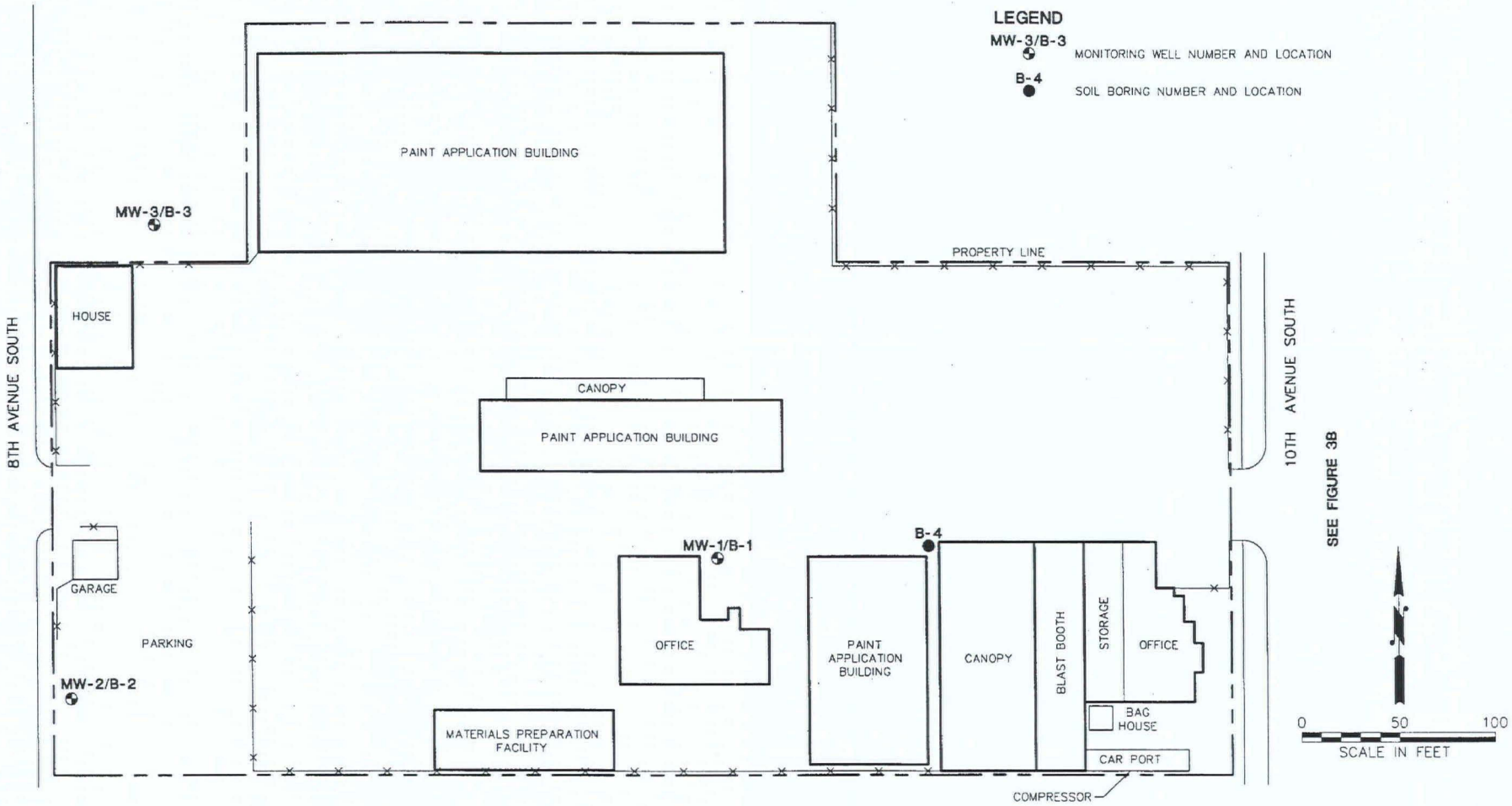

FIGURE 3A

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DESIGN	JTC
DRAWN	BDT
DATE	SEP 1997
SCALE	1"=50'

LONG PAINTING COMPANY
8025 10TH AVENUE S.
SEATTLE, WASHINGTON

SITE PLAN

AGRA EARTH & ENVIRONMENTAL, INC. DRAWING NO. \91\11802-A\SITE1.DWG

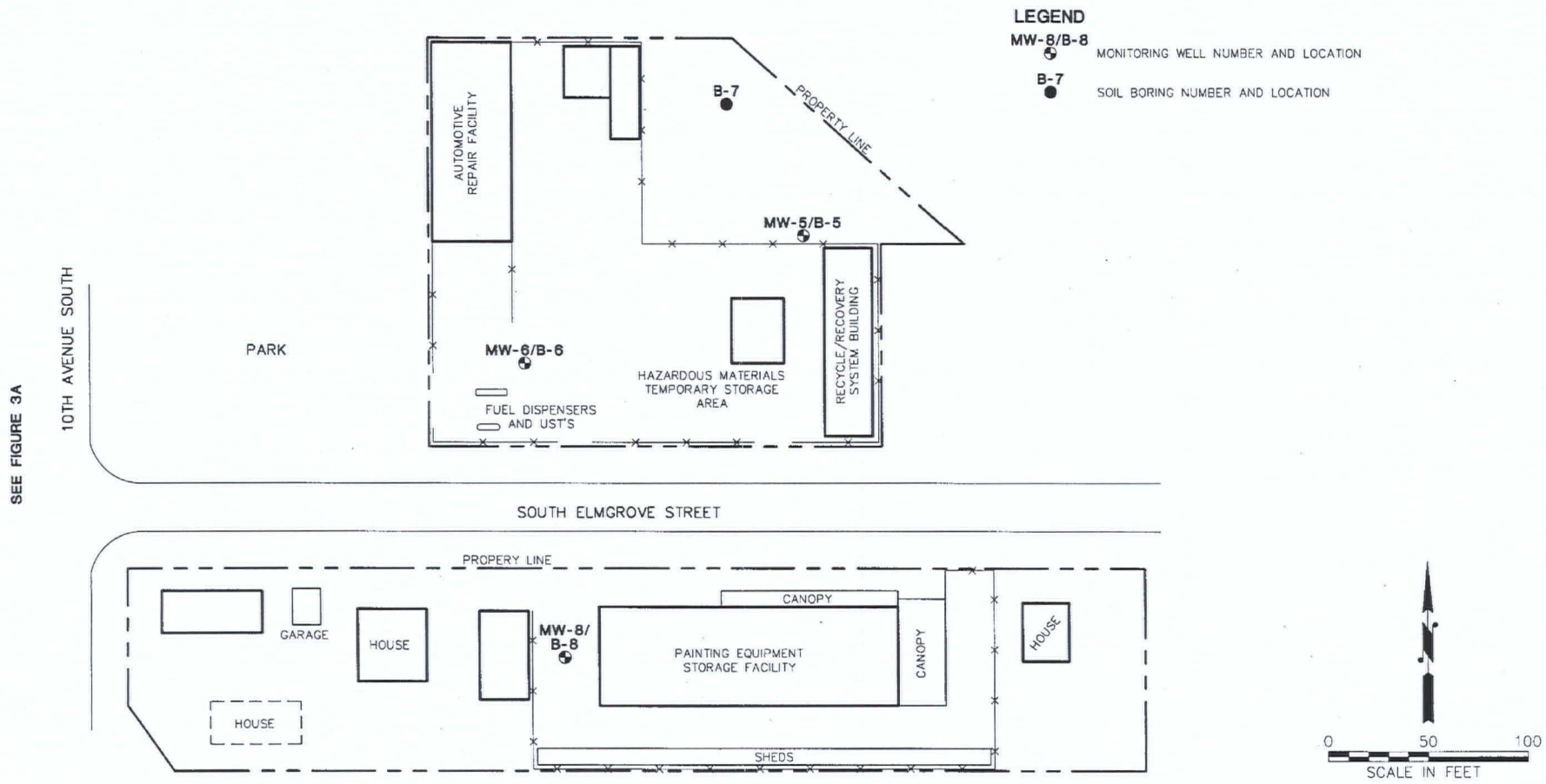

FIGURE 3B

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W.O.	7-91M-11802-A
DESIGN	JTC
DRAWN	BDT
DATE	SEP 1997
SCALE	1"=50'

LONG PAINTING COMPANY
8025 10TH AVENUE S.
SEATTLE, WASHINGTON

SITE PLAN

AGRA EARTH & ENVIRONMENTAL, INC. DRAWING NO. \91\11802-A\SITE2.DWG

APPENDIX A
SUBSURFACE EXPLORATION BORING LOGS

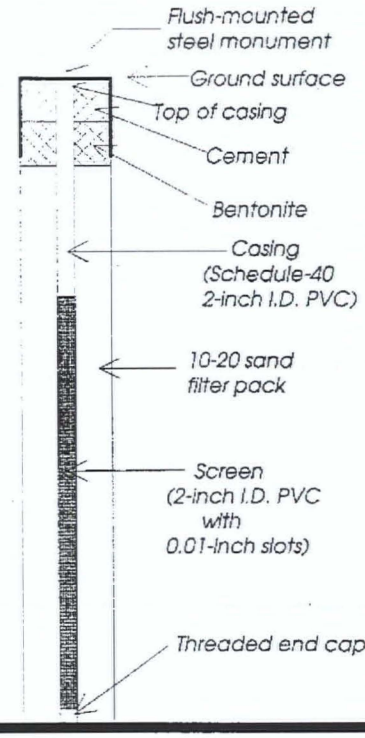
B-1/

PROJECT: Long Painting Co. W.O. 7-91M-11802-A WELL NO. MW-1

Elevation reference: N/A
Ground surface elevation: N/A
Well completed: 26 August 1997
Casing elevation: N/A

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	Grass & Sod - 4"						
	Loose, damp, brown, silty SAND						
	Loose, moist, gray, silty fine SAND		S-1		0		
5							
	Loose, moist, mottled gray-brown, silty fine SAND		S-2		0		
10						ATD	
	Loose, saturated, brown, medium to coarse SAND with some silt		S-3		0		WTPH-D
15	Bottom of boring at 15 feet.						
20							
25							
30							



LEGEND

- 2-inch O.D. split-spoon sample
- Observed groundwater level, ATD = at time of drilling
- WTPH-G/BTEX: Analytical testing

AGRA Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 26 August 1997 Drilling completed: 26 August 1997 Logged by: JTC

AGRA Earth and Environmental, Inc.

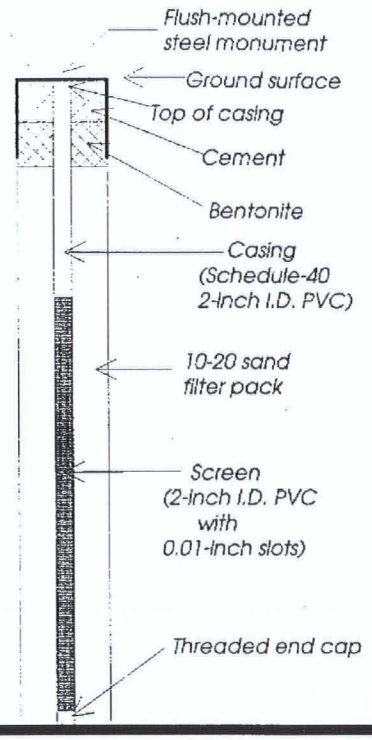
B-2/

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *MW-2*

Elevation reference: *N/A* Well completed: *26 August 1997*
Ground surface elevation: *N/A* Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	*2" Asphalt*						
	Very soft, moist, tan, SILT		S-1		0		
5							
	Becomes saturated		S-2		0		
10						ATD	
	Medium dense, saturated, brown, medium to coarse SAND with some silt		S-3		0		
15	*Bottom of boring at 15 feet.*						
20							
25							
30							



LEGEND

2-inch O.D. split-spoon sample

ATD — Observed groundwater level, ATD = at time of drilling

AGRA Earth and Environmental, Inc.

AGRA
Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

B-3/

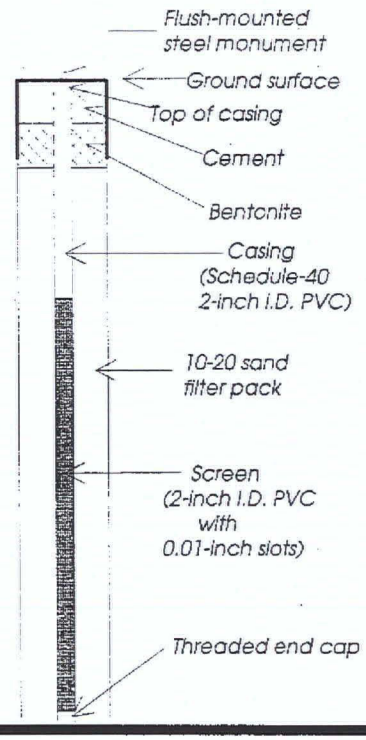
PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *MW-3*

Elevation reference: *N/A*
Ground surface elevation: *N/A*

Well completed: *25 August 1997*
Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER
0	*6" loose gravel*					
	Very soft, moist, dark brown, fine sandy SILT		S-1		0	
5						
	Firm to stiff, moist to wet, mottled brown-gray-rust, SILT		S-2		0	
10						ATD
	Medium dense, saturated, brown-gray, medium to coarse SAND with some silt		S-3		0	
15	*Bottom of boring at 15 feet.*					
20						
25						
30						



TESTING

LEGEND

2-inch O.D. split-spoon sample

Observed groundwater level
ATD = at time of drilling

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Kirkland, Washington 98034-6918

Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *B-4*

Elevation reference: *N/A* Well completed: *N/A*
Ground surface elevation: *N/A* Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	AS-BUILT DESIGN	TESTING
0	*2" Asphalt, base coarse*						*No Well Installed*	
	Stiff, moist, brown, SILT with some clay		*S-1*		*0*			*EPA 7000*
5								
			S-2		*0*			
10						ATD		
	Medium dense, saturated, brown, medium to coarse SAND with some silt		*S-3*		*0*			
15	*Bottom of boring at 14 feet.*							
20								
25								
30								

LEGEND

2-inch O.D. split-spoon sample

Observed groundwater level ATD = at time of drilling

EPA 7000 Analytical testing

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11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

AGRA Earth and Environmental, Inc.

Drilling started: *26 August 1997* Drilling completed: *26 August 1997* Logged by: *JTC*

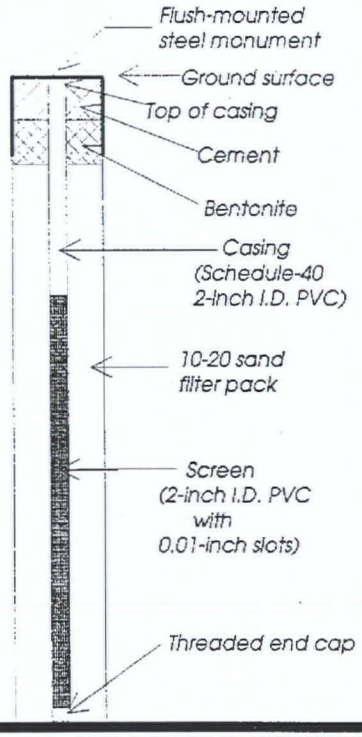
B-5/

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *MW-5*

Elevation reference: *N/A* Well completed: *25 August 1997*
Ground surface elevation: *N/A* Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	*Medium dense, damp, brown, sandy GRAVEL*						
	Dense, moist, dark brown, silty , fine to medium SAND with some gravel		S-1		0		
5							
	Loose, moist, brown fine sandy SILT		S-2		0		EPA 7000 & 8260
10							
	Loose, saturated, brown, medium to coarse SAND with some silt		S-3		0		
15	*Bottom of boring at 15 feet.*						
20							
25							
30							



LEGEND

2-inch O.D. split-spoon sample

EPA 7000 & 8260 — Analytical testing

AGRA Earth and Environmental, Inc.

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Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

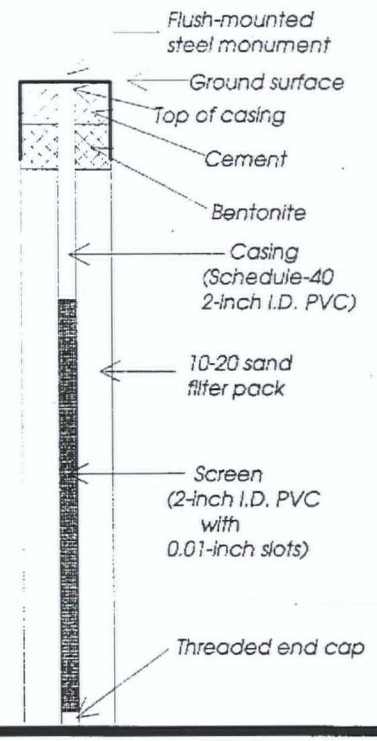
B-6/

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *MW-6*

Elevation reference: *N/A* Well completed: *25 August 1997*
Ground surface elevation: *N/A* Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	*4" Asphalt*						
	Loose, moist, brown, silty SAND with some gravel		S-1				
5							
			S-2				WTPH-G WTPH-D EPA 8020
10						ATD	
			S-3				
15	*Bottom of boring at 15 feet.*						
20							
25							
30							



LEGEND

2-inch O.D. split-spoon sample

Observed groundwater level ATD = at time of drilling

WTPH-G WTPH-D EPA 8020 Analytical testing

AGRA Earth and Environmental, Inc.

AGRA
Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *B-7*

Elevation reference: *N/A* Well completed: *N/A*
Ground surface elevation: *N/A* Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	AS-BUILT DESIGN	TESTING
0	*Loose, damp, light brown gravelly SAND with some silt*		S-1		0		*No Well Installed*	EPA 7000
	Bottom of boring at 1.5 feet.							
5								
10								
15								
20								
25								
30								

LEGEND

- 2-inch O.D. split-spoon sample
- EPA 7000 — Analytical testing
- ATD — Observed groundwater level, ATD = at time of drilling
- Grab sample

AGRA Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

AGRA Earth and Environmental, Inc.

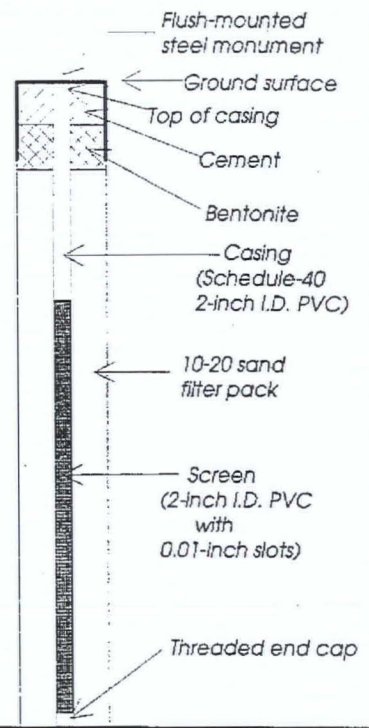
Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

PROJECT: *Long Painting Co.* W.O. *7-91M-11802-A* WELL NO. *B-8/ MW-8*

Elevation reference: *N/A*
Ground surface elevation: *N/A*
Well completed: *25 August 1997*
Casing elevation: *N/A*

AS-BUILT DESIGN

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	*2" Asphalt, base coarse*						
	Loose to medium dense, dry, silty fine to medium SAND		S-1				
5							
	Medium dense, moist, brown-gray, fine to medium SAND with some silt		S-2				EPA 8260
10						ATD	
	Becomes saturated		S-3				
	Medium desne, saturated, dark gray, fine to medium SAND with silt						
15	*Bottom of boring at 15 feet.*						
20							
25							
30							



LEGEND

2-inch O.D. split-spoon sample

EPA 7000 — Analytical testing

ATD — Observed groundwater level; ATD = at time of drilling

AGRA Earth and Environmental, Inc.

AGRA
Earth & Environmental
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: *25 August 1997* Drilling completed: *25 August 1997* Logged by: *JTC*

APPENDIX B
ANALYTICAL LABORATORY TEST CERTIFICATES

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

September 2, 1997

John Cooper
Agra Earth & Environmental
11335 NE 122nd Way Suite 100
Kirkland, WA 98034

Re: Analytical Data for Project 7-91M-11802
Laboratory Reference No. 9708-120

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 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,

Karl P. Hornyik
Lab Manager

Enclosures

14924 NE 31st Circle • Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

NWTPH-HCID

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)

Client ID:	B-6,S-2
Lab ID:	08-120-01
Dilution Factor:	2.0
Gas:	ND
PQL:	25
Diesel Fuel:	ND
PQL:	63
Oil:	ND
PQL:	125
Surrogate Recovery:	134%
o-Terphenyl	

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)

Lab ID:	MB0826S1
Dilution Factor:	2.0
Gas:	ND
PQL:	20
Diesel Fuel:	ND
PQL:	50
Oil:	ND
PQL:	100
Surrogate Recovery:	138%
o-Terphenyl	

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
page 1 of 2

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	08-120-2
Client ID:	**B-5,S-2**
Dilution Factor:	50

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.056
Chloromethane	ND		0.056
Vinyl Chloride	ND		0.056
Bromomethane	ND		0.056
Chloroethane	ND		0.056
Trichlorofluoromethane	ND		0.056
1,1-Dichloroethene	ND		0.056
Methylene Chloride	0.20	B	0.056
(trans) 1,2-Dichloroethene	ND		0.056
1,1-Dichloroethane	ND		0.056
2,2-Dichloropropane	ND		0.056
(cis) 1,2-Dichloroethene	ND		0.056
Chloroform	ND		0.056
1,1,1-Trichloroethane	ND		0.056
Carbon Tetrachloride	ND		0.56
1,1-Dichloropropene	ND		0.056
Benzene	ND		0.056
1,2-Dichloroethane	ND		0.056
Trichloroethene	ND		0.056
1,2-Dichloropropane	ND		0.056
Dibromomethane	ND		0.056
Bromodichloromethane	ND		0.056
(cis) 1,3-Dichloropropene	ND		0.056
Toluene	ND		0.056
(trans) 1,3-Dichloropropene	ND		0.056
1,1,2-Trichloroethane	ND		0.056
Tetrachloroethene	ND		0.056
1,3-Dichloropropane	ND		0.056

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
page 2 of 2

Lab ID: 08-120-2
Client ID: B-5S-2

Dilution Factor: 50

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.056
1,2-Dibromoethane	ND		0.056
Chlorobenzene	ND		0.056
1,1,1,2-Tetrachloroethane	ND		0.056
Ethylbenzene	ND		0.056
m,p-Xylene	ND		0.11
o-Xylene	ND		0.056
Styrene	ND		0.056
Bromoform	ND		0.056
Isopropylbenzene	ND		0.056
Bromobenzene	ND		0.056
1,1,2,2-Tetrachloroethane	ND		0.056
1,2,3-Trichloropropane	ND		0.056
n-Propylbenzene	ND		0.056
2-Chlorotoluene	ND		0.056
4-Chlorotoluene	ND		0.056
1,3,5-Trimethylbenzene	ND		0.056
tert-Butylbenzene	ND		0.056
1,2,4-Trimethylbenzene	ND		0.056
sec-Butylbenzene	ND		0.056
1,3-Dichlorobenzene	ND		0.056
p-Isopropyltoluene	ND		0.056
1,4-Dichlorobenzene	ND		0.056
1,2-Dichlorobenzene	ND		0.056
n-Butylbenzene	ND		0.056
1,2-Dibromo-3-chloropropane	ND		0.56
1,2,4-Trichlorobenzene	ND		0.056
Hexachlorobutadiene	ND		0.056
Naphthalene	ND		0.56
1,2,3-Trichlorobenzene	ND		0.056

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	100	80-120
Toluene-d8	100	81-117
4-Bromofluorobenzene	86	74-121

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
page 1 of 2

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	08-120-4
Client ID:	**B-8,S-2**
Dilution Factor:	50

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.054
Chloromethane	ND		0.054
Vinyl Chloride	ND		0.054
Bromomethane	ND		0.054
Chloroethane	ND		0.054
Trichlorofluoromethane	ND		0.054
1,1-Dichloroethene	ND		0.054
Methylene Chloride	0.17	B	0.054
(trans) 1,2-Dichloroethene	ND		0.054
1,1-Dichloroethane	ND		0.054
2,2-Dichloropropane	ND		0.054
(cis) 1,2-Dichloroethene	ND		0.054
Chloroform	ND		0.054
1,1,1-Trichloroethane	ND		0.054
Carbon Tetrachloride	ND		0.54
1,1-Dichloropropene	ND		0.054
Benzene	ND		0.054
1,2-Dichloroethane	ND		0.054
Trichloroethene	ND		0.054
1,2-Dichloropropane	ND		0.054
Dibromomethane	ND		0.054
Bromodichloromethane	ND		0.054
(cis) 1,3-Dichloropropene	ND		0.054
Toluene	ND		0.054
(trans) 1,3-Dichloropropene	ND		0.054
1,1,2-Trichloroethane	ND		0.054
Tetrachloroethene	ND		0.054
1,3-Dichloropropane	ND		0.054

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
page 2 of 2

Lab ID: 08-120-4
Client ID: B-8,S-2

Dilution Factor: 50

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.054
1,2-Dibromoethane	ND		0.054
Chlorobenzene	ND		0.054
1,1,1,2-Tetrachloroethane	ND		0.054
Ethylbenzene	ND		0.054
m,p-Xylene	ND		0.11
o-Xylene	ND		0.054
Styrene	ND		0.054
Bromoform	ND		0.054
Isopropylbenzene	ND		0.054
Bromobenzene	ND		0.054
1,1,2,2-Tetrachloroethane	ND		0.054
1,2,3-Trichloropropane	ND		0.054
n-Propylbenzene	ND		0.054
2-Chlorotoluene	ND		0.054
4-Chlorotoluene	ND		0.054
1,3,5-Trimethylbenzene	ND		0.054
tert-Butylbenzene	ND		0.054
1,2,4-Trimethylbenzene	ND		0.054
sec-Butylbenzene	ND		0.054
1,3-Dichlorobenzene	ND		0.054
p-Isopropyltoluene	ND		0.054
1,4-Dichlorobenzene	ND		0.054
1,2-Dichlorobenzene	ND		0.054
n-Butylbenzene	ND		0.054
1,2-Dibromo-3-chloropropane	ND		0.54
1,2,4-Trichlorobenzene	ND		0.054
Hexachlorobutadiene	ND		0.054
Naphthalene	ND		0.54
1,2,3-Trichlorobenzene	ND		0.054

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	98	80-120
Toluene-d8	99	81-117
4-Bromofluorobenzene	89	74-121

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 1 of 2

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	MB0826S1
Dilution Factor:	50

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.050
Chloromethane	ND		0.050
Vinyl Chloride	ND		0.050
Bromomethane	ND		0.050
Chloroethane	ND		0.050
Trichlorofluoromethane	ND		0.050
1,1-Dichloroethene	ND		0.050
Methylene Chloride	0.18		0.050
(trans) 1,2-Dichloroethene	ND		0.050
1,1-Dichloroethane	ND		0.050
2,2-Dichloropropane	ND		0.050
(cis) 1,2-Dichloroethene	ND		0.050
Chloroform	ND		0.050
1,1,1-Trichloroethane	ND		0.050
Carbon Tetrachloride	ND		0.50
1,1-Dichloropropene	ND		0.050
Benzene	ND		0.050
1,2-Dichloroethane	ND		0.050
Trichloroethene	ND		0.050
1,2-Dichloropropane	ND		0.050
Dibromomethane	ND		0.050
Bromodichloromethane	ND		0.050
(cis) 1,3-Dichloropropene	ND		0.050
Toluene	ND		0.050
(trans) 1,3-Dichloropropene	ND		0.050
1,1,2-Trichloroethane	ND		0.050
Tetrachloroethene	ND		0.050
1,3-Dichloropropane	ND		0.050

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 2 of 2

Lab ID: MB0826S1

Dilution Factor: 50

Compound	Results	Flags	PQL
Dibromochloromethane	ND		0.050
1,2-Dibromoethane	ND		0.050
Chlorobenzene	ND		0.050
1,1,1,2-Tetrachloroethane	ND		0.050
Ethylbenzene	ND		0.050
m,p-Xylene	ND		0.10
o-Xylene	ND		0.050
Styrene	ND		0.050
Bromoform	ND		0.050
Isopropylbenzene	ND		0.050
Bromobenzene	ND		0.050
1,1,2,2-Tetrachloroethane	ND		0.050
1,2,3-Trichloropropane	ND		0.050
n-Propylbenzene	ND		0.050
2-Chlorotoluene	ND		0.050
4-Chlorotoluene	ND		0.050
1,3,5-Trimethylbenzene	ND		0.050
tert-Butylbenzene	ND		0.050
1,2,4-Trimethylbenzene	ND		0.050
sec-Butylbenzene	ND		0.050
1,3-Dichlorobenzene	ND		0.050
p-Isopropyltoluene	ND		0.050
1,4-Dichlorobenzene	ND		0.050
1,2-Dichlorobenzene	ND		0.050
n-Butylbenzene	ND		0.050
1,2-Dibromo-3-chloropropane	ND		0.50
1,2,4-Trichlorobenzene	ND		0.050
Hexachlorobutadiene	ND		0.050
Naphthalene	ND		0.50
1,2,3-Trichlorobenzene	ND		0.050

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	80-120
Toluene-d8	93	81-117
4-Bromofluorobenzene	84	74-121

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

VOLATILES by EPA 8260
MS/MSD QUALITY CONTROL

Date Extracted: 8-26-97
Date Analyzed: 8-27-97

Matrix: Soil
Units: mg/Kg (ppm)

Dilution Factor: 50

Lab ID: 08-098-2

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD
1,1-Dichloroethene	2.50	2.19	87	2.14	85	2.2
Benzene	2.50	2.46	95	2.42	94	1.7
Trichloroethene	2.50	2.76	109	2.73	108	1.2
Toluene	2.50	2.59	103	2.57	102	0.68
Chlorobenzene	2.50	2.54	101	2.55	102	0.32

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471

Date Extracted: 08-27,29-97
Date Analyzed: 08-28,29-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-120-3
Client ID: B-7,S-1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**82**	11
Barium	6010	1.0	**130**	0.53
Cadmium	6010	1.0	**0.58**	0.53
Chromium	6010	1.0	**52**	0.53
Lead	6010	1.0	**170**	5.3
Mercury	7471	1.0	**ND**	0.27
Selenium	6010	1.0	**ND**	11
Silver	6010	1.0	**ND**	0.53

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
METHOD BLANK QUALITY CONTROL

Date Extracted: 08-27,29-97
Date Analyzed: 08-28,29-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0827S1
MB0829S1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	10
Barium	6010	1.0	**ND**	0.50
Cadmium	6010	1.0	**ND**	0.50
Chromium	6010	1.0	**ND**	0.50
Lead	6010	1.0	**ND**	5.0
Mercury	7471	1.0	**ND**	0.25
Selenium	6010	1.0	**ND**	10
Silver	6010	1.0	**ND**	0.50

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
DUPLICATE QUALITY CONTROL

Date Extracted: 08-21&24-97
Date Analyzed: 08-22&24-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-079-16

Analyte	Dilution	Sample Result	Duplicate Result	RPD	Flags	PQL
Arsenic	1.0	**ND**	**ND**	NA		10
Barium	1.0	**37.1**	**37.8**	1.9		0.50
Cadmium	1.0	**ND**	**ND**	NA		0.50
Chromium	1.0	**24.1**	**22.5**	6.9		0.50
Lead	1.0	**5.15**	**ND**	NA		5.0
Mercury	1.0	**ND**	**ND**	NA		0.25
Selenium	1.0	**ND**	**ND**	NA		10
Silver	1.0	**ND**	**ND**	NA		0.50

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
MS/MSD QUALITY CONTROL

Date Extracted: 08-21&24-97
Date Analyzed: 08-22&24-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-079-16

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD
Arsenic	100	**83.9**	84	**86.9**	87	3.6
Barium	100	**129**	92	**131**	94	2.3
Cadmium	50	**45.4**	91	**44.9**	90	1.0
Chromium	100	**118**	94	**119**	95	1.9
Lead	250	**209**	82	**210**	82	0.49
Mercury	2.5	**2.32**	93	**2.22**	89	4.6
Selenium	100	**79.6**	80	**77.2**	77	3.0
Silver	50	**27.7**	55	**25.9**	52	6.7

Date of Report: September 2, 1997
Samples Submitted: August 25, 1997
Lab Traveler: 08-120
Project: 7-91M-11802

Date Analyzed: 8-27-97

% MOISTURE

Client ID	Lab ID	% Moisture
B-5, S-2	08-120-1	20
B-6, S-2	08-120-2	10
B-7, S-1	08-120-3	6.0
B-8, S-2	08-120-4	8.0

OnSite Environmental Inc.

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 limits due to sample inhomogeniety. 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

Chain Of Custody

Page 1 of 1

OnSite Environmental Inc.
14924 NE 31st Circle • Redmond, WA 98052
Fax: (206) 885-4603 • **Phone: (206) 883-3881**

Company: AGRA E&E
Project No: 7-91M-11802
Project Name: Lowe Painting ~~John Coop~~ Company
Project Manager: John Cooper

Turn Around Requested (Check One)
- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ Standard
- ☒ Fri by 5pm (other)

Project Chemist: KH
Laboratory No. 08-120

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	WTPH-HCID	WTPH-G/BTEX	WTPH-D	WTPH-418.1	Volatiles by 8240/624	Volatiles by 8260	Chlorinated Volatiles by 8240/8260/624	Semivolatiles by 8270/625	PAHs by 8270/625	PCB's by 8080/608	Total RCRA Metals (8)	TCLP Metals								% Moisture
1	B-6, S-2	8-26	AM			X																			X
2	B-5, S-2	"	"								X														X
3	B-7, S-1	"	"													X									X
4	B-8, S-2	"	"								X														X

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John Cooper	8-26-97	V. Henzi	8/25/97
FIRM: AEE	TIME: 4:30	FIRM: OSE	TIME: 4:30
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS: Need by Friday 5:00 PM Phone & fax Results

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

LP_00174

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

September 2, 1997

John Cooper
Agra Earth & Environmental
11335 NE 122nd Way Suite 100
Kirkland, WA 98034

Re: Analytical Data for Project 7-91M-11802
Laboratory Reference No. 9708-127

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 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,

Karl P. Hornyik
Lab Manager

Enclosures

14924 NE 31st Circle • Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-HCID

Date Extracted: 8-27, 28-97
Date Analyzed: 8-27, 29-97

Matrix: Water
Units: mg/L (ppm)

Client ID:	MW-4	MW-2	MW-3
Lab ID:	08-127-06	08-127-04	08-127-05
Dilution Factor:	0.020	0.020	0.020
Gas:	ND	ND	ND
PQL:	0.25	0.25	0.25
Diesel Fuel:	ND	ND	ND
PQL:	0.63	0.63	0.63
Oil:	ND	ND	ND
PQL:	0.63	0.63	0.63
Surrogate Recovery: o-Terphenyl	94%	126%	120%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-27, 28-97
Date Analyzed: 8-27, 29-97

Matrix: Water
Units: mg/L (ppm)

Lab ID:	MB0827W1	MB0828W1
Dilution Factor:	0.020	0.020
Gas:	ND	ND
PQL:	0.25	0.25
Diesel Fuel:	ND	ND
PQL:	0.63	0.63
Oil:	ND	ND
PQL:	0.63	0.63
Surrogate Recovery: o-Terphenyl	81%	121%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-G/BTEX

Date Extracted: 8-27-97
Date Analyzed: 8-27-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-127-8
Client ID: **MW-6**

Dilution Factor 1.0

	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

Surrogate Recovery:
Fluorobenzene 91%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-G/BTEX
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-27-97
Date Analyzed: 8-27-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0827W1

Dilution Factor 1.0

	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

Surrogate Recovery:
Fluorobenzene 86%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-G/BTEX
DUPLICATE QUALITY CONTROL

Date Extracted: 8-18-97
Date Analyzed: 8-18-97

Matrix: Water
Units: ug/L (ppb)

Lab ID:	08-072-3	08-072-3	
	Original	**Duplicate**	**RPD**
Dilution Factor	1.0	1.0	
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
Surrogate Recovery:			
Fluorobenzene	95%	93%	

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-G/BTEX
MS/MSD QUALITY CONTROL

Date Extracted: 8-18-97
Date Analyzed: 8-18-97

Matrix: Water
Units: ug/L (ppb)

Lab ID	08-072-3		08-072-3		
spiked @ 50 ppb	**MS**	Percent	**MSD**	Percent	
Dilution Factor	1.0	Recovery	1.0	Recovery	RPD
Benzene	43.8	88	47.1	94	7.3
Toluene	45.3	91	48.7	97	7.2
Ethyl Benzene	45.7	91	49.1	98	7.2
m,p-Xylene	46.7	93	50.1	100	7.0
o-Xylene	46.4	93	49.7	99	6.9

Surrogate Recovery:

Fluorobenzene	94%	94%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Water
Units:	mg/L (ppm)

Client ID:	MW-1	MW-6
Lab ID:	08-127-03	08-127-08
Dilution Factor:	0.020	0.020
Diesel Fuel C12-C24:	ND	ND
PQL:	0.50	0.50
Oil C24-C34:	ND	ND
PQL:	1.0	1.0
Surrogate Recovery: o-Terphenyl	56%	67%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Water
Units:	mg/L (ppm)

Lab ID:	MB0827W1
Dilution Factor:	0.020
Diesel Fuel C12-C24:	ND
PQL:	0.50
Oil C24-C34:	ND
PQL:	1.0
Surrogate Recovery:	81%
o-Terphenyl	

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-27-97
Date Analyzed: 8-27-97

Matrix: Water

Units: mg/L (ppm)

Lab ID:	08-127-08	08-127-08 DUP
Diesel Fuel C12-C24:	ND	ND
PQL:	0.50	0.50
RPD:	NA	
Surrogate Recovery: o-Terphenyl	67%	62%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
SB/SBD QUALITY CONTROL

Date Extracted:	8-15-97
Date Analyzed:	8-15-97
Matrix:	Water
Units:	mg/L (ppm)
Spike Level:	2.0 ppm

Lab ID:	SB0815W1	SB0815W1 DUP
Diesel Fuel C12-C24:	1.51	1.45
PQL:	0.50	0.50
Percent Recovery:	76	73
RPD:	4.1	
Surrogate Recovery: o-Terphenyl	80%	84%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)

Client ID:	B-1 S-3
Lab ID:	08-127-02
Dilution Factor:	1.0
Diesel Fuel C12-C24:	ND
PQL:	32
Oil C24-C34:	ND
PQL:	64
Surrogate Recovery:	78%
o-Terphenyl	

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)

Lab ID:	MB0827S1
Dilution Factor:	1.0
Diesel Fuel C12-C24:	ND
PQL:	25
Oil C24-C34:	ND
PQL:	50
Surrogate Recovery:	89%
o-Terphenyl	

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-26-97
Date Analyzed: 8-27-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID:	08-126-01	08-126-01 DUP
Diesel Fuel C12-C24:	ND	ND
PQL:	25	25
RPD:	NA	
Surrogate Recovery: o-Terphenyl	83%	80%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

NWTPH-Dx
SB/SBD QUALITY CONTROL

Date Extracted:	8-26-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Spike Level:	100 ppm

Lab ID:	SB0826S2	SB0826S2 DUP
Diesel Fuel C12-C24:	91.3	87.4
PQL:	25	25
Percent Recovery:	91	87
RPD:	4.4	
Surrogate Recovery: o-Terphenyl	102%	97%

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 1 of 2

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	08-127-1
Client ID:	**B-4,S-1**
Dilution Factor:	50

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		0.069
Chloromethane	ND		0.069
Vinyl Chloride	ND		0.069
Bromomethane	ND		0.069
Chloroethane	ND		0.069
Trichlorofluoromethane	ND		0.069
1,1-Dichloroethene	ND		0.069
Methylene Chloride	0.24	B	0.069
(trans) 1,2-Dichloroethene	ND		0.069
1,1-Dichloroethane	ND		0.069
2,2-Dichloropropane	ND		0.069
(cis) 1,2-Dichloroethene	ND		0.069
Chloroform	ND		0.069
1,1,1-Trichloroethane	ND		0.069
Carbon Tetrachloride	ND		0.35
1,1-Dichloropropene	ND		0.069
1,2-Dichloroethane	ND		0.069
Trichloroethene	ND		0.069
1,2-Dichloropropane	ND		0.069
Dibromomethane	ND		0.069
Bromodichloromethane	ND		0.069
(cis) 1,3-Dichloropropene	ND		0.069
(trans) 1,3-Dichloropropene	ND		0.069
1,1,2-Trichloroethane	ND		0.069
Tetrachloroethene	ND		0.069
1,3-Dichloropropane	ND		0.069
Dibromochloromethane	ND		0.069

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 2 of 2

Lab ID: 08-127-1
Client ID: B-4,S-1

Dilution Factor: 50

Compound	Results	Flags	PQL
1,2-Dibromoethane	ND		0.069
Chlorobenzene	ND		0.069
1,1,1,2-Tetrachloroethane	ND		0.069
Bromoform	ND		0.069
Bromobenzene	ND		0.069
1,1,2,2-Tetrachloroethane	ND		0.069
1,2,3-Trichloropropane	ND		0.069
2-Chlorotoluene	ND		0.069
4-Chlorotoluene	ND		0.069
1,3-Dichlorobenzene	ND		0.069
1,4-Dichlorobenzene	ND		0.069
1,2-Dichlorobenzene	ND		0.069
1,2-Dibromo-3-chloropropane	ND		0.35
1,2,4-Trichlorobenzene	ND		0.069
Hexachlorobutadiene	ND		0.069
1,2,3-Trichlorobenzene	ND		0.069

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	101	80-120
Toluene-d8	99	81-117
4-Bromofluorobenzene	95	74-121

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 1 of 2

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Soil
Units:	mg/Kg (ppm)
Lab ID:	MB0827S1
Dilution Factor:	50

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.050
Chloromethane	ND		0.050
Vinyl Chloride	ND		0.050
Bromomethane	ND		0.050
Chloroethane	ND		0.050
Trichlorofluoromethane	ND		0.050
1,1-Dichloroethene	ND		0.050
Methylene Chloride	0.18		0.050
(trans) 1,2-Dichloroethene	ND		0.050
1,1-Dichloroethane	ND		0.050
2,2-Dichloropropane	ND		0.050
(cis) 1,2-Dichloroethene	ND		0.050
Chloroform	ND		0.050
1,1,1-Trichloroethane	ND		0.050
Carbon Tetrachloride	ND		0.25
1,1-Dichloropropene	ND		0.050
1,2-Dichloroethane	ND		0.050
Trichloroethene	ND		0.050
1,2-Dichloropropane	ND		0.050
Dibromomethane	ND		0.050
Bromodichloromethane	ND		0.050
(cis) 1,3-Dichloropropene	ND		0.050
(trans) 1,3-Dichloropropene	ND		0.050
1,1,2-Trichloroethane	ND		0.050
Tetrachloroethene	ND		0.050
1,3-Dichloropropane	ND		0.050
Dibromochloromethane	ND		0.050

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 2 of 2

Lab ID: MB0827S1

Dilution Factor: 50

Compound	Results	Flags	PQL
1,2-Dibromoethane	ND		0.050
Chlorobenzene	ND		0.050
1,1,1,2-Tetrachloroethane	ND		0.050
Bromoform	ND		0.050
Bromobenzene	ND		0.050
1,1,2,2-Tetrachloroethane	ND		0.050
1,2,3-Trichloropropane	ND		0.050
2-Chlorotoluene	ND		0.050
4-Chlorotoluene	ND		0.050
1,3-Dichlorobenzene	ND		0.050
1,4-Dichlorobenzene	ND		0.050
1,2-Dichlorobenzene	ND		0.050
1,2-Dibromo-3-chloropropane	ND		0.25
1,2,4-Trichlorobenzene	ND		0.050
Hexachlorobutadiene	ND		0.050
1,2,3-Trichlorobenzene	ND		0.050

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	96	80-120
Toluene-d8	93	81-117
4-Bromofluorobenzene	84	74-121

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
MS/MSD QUALITY CONTROL

Date Extracted: 8-26-97
Date Analyzed: 8-27-97

Matrix: Soil
Units: mg/Kg (ppm)

Dilution Factor: 50

Lab ID: 08-098-2

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD
1,1-Dichloroethene	2.50	2.19	87	2.14	85	2.2
Benzene	2.50	2.46	95	2.42	94	1.7
Trichloroethene	2.50	2.76	109	2.73	108	1.2
Toluene	2.50	2.59	103	2.57	102	0.68
Chlorobenzene	2.50	2.54	101	2.55	102	0.32

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 1 of 2

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	08-127-6
Client ID:	**MW-8**
Dilution Factor:	1.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		1.0
Chloromethane	ND		1.0
Vinyl Chloride	ND		1.0
Bromomethane	ND		1.0
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
1,1-Dichloroethene	ND		1.0
Methylene Chloride	3.3	B	1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		1.0
2,2-Dichloropropane	ND		1.0
(cis) 1,2-Dichloroethene	ND		1.0
Chloroform	4.1		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon Tetrachloride	ND		5.0
1,1-Dichloropropene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
Dibromomethane	ND		1.0
Bromodichloromethane	ND		1.0
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Tetrachloroethene	ND		1.0
1,3-Dichloropropane	ND		1.0
Dibromochloromethane	ND		1.0
1,2-Dibromoethane	ND		1.0

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 2 of 2

Lab ID: 08-127-6
Client ID: **MW-6**

Dilution Factor: 1.0

Compound	Results	Flags	PQL
Chlorobenzene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
Bromoform	ND		1.0
Bromobenzene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,2,3-Trichloropropane	ND		1.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	106	86-118
Toluene-d8	99	88-110
4-Bromofluorobenzene	94	86-115

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 1 of 2

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	08-127-7
Client ID:	**MW-5**
Dilution Factor:	1.0

Compound	**Results**	**Flags**	**PQL**
Dichlorodifluoromethane	ND		1.0
Chloromethane	ND		1.0
Vinyl Chloride	ND		1.0
Bromomethane	ND		1.0
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
1,1-Dichloroethene	ND		1.0
Methylene Chloride	3.5	B	1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		1.0
2,2-Dichloropropane	ND		1.0
(cis) 1,2-Dichloroethene	ND		1.0
Chloroform	2.6		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon Tetrachloride	ND		5.0
1,1-Dichloropropene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
Dibromomethane	ND		1.0
Bromodichloromethane	ND		1.0
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Tetrachloroethene	ND		1.0
1,3-Dichloropropane	ND		1.0
Dibromochloromethane	ND		1.0
1,2-Dibromoethane	ND		1.0

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260

page 2 of 2

Lab ID: 08-127-7
Client ID: MW-5

Dilution Factor: 1.0

Compound	Results	Flags	PQL
Chlorobenzene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
Bromoform	ND		1.0
Bromobenzene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,2,3-Trichloropropane	ND		1.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	110	86-118
Toluene-d8	96	88-110
4-Bromofluorobenzene	90	86-115

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 1 of 2

Date Extracted:	8-27-97
Date Analyzed:	8-27-97
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	MB0827W1
Dilution Factor:	1.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		1.0
Chloromethane	ND		1.0
Vinyl Chloride	ND		1.0
Bromomethane	ND		1.0
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
1,1-Dichloroethene	ND		1.0
Methylene Chloride	3.5		1.0
(trans) 1,2-Dichloroethene	ND		1.0
1,1-Dichloroethane	ND		1.0
2,2-Dichloropropane	ND		1.0
(cis) 1,2-Dichloroethene	ND		1.0
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		1.0
Carbon Tetrachloride	ND		5.0
1,1-Dichloropropene	ND		1.0
1,2-Dichloroethane	ND		1.0
Trichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
Dibromomethane	ND		1.0
Bromodichloromethane	ND		1.0
(cis) 1,3-Dichloropropene	ND		1.0
(trans) 1,3-Dichloropropene	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Tetrachloroethene	ND		1.0
1,3-Dichloropropane	ND		1.0
Dibromochloromethane	ND		1.0
1,2-Dibromoethane	ND		1.0

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
METHOD BLANK QUALITY CONTROL
page 2 of 2

Lab ID: MB0827W1

Dilution Factor: 1.0

Compound	Results	Flags	PQL
Chlorobenzene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
Bromoform	ND		1.0
Bromobenzene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
1,2,3-Trichloropropane	ND		1.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,2-Dibromo-3-chloropropane	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
Hexachlorobutadiene	ND		1.0
1,2,3-Trichlorobenzene	ND		1.0

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	102	86-118
Toluene-d8	93	88-110
4-Bromofluorobenzene	94	86-115

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

HALOGENATED VOLATILES by EPA 8260
MS/MSD QUALITY CONTROL

Date Extracted: 8-26-97
Date Analyzed: 8-26-97

Matrix: Water
Units: ug/L (ppb)

Dilution Factor: 1.0

Lab ID: 08-107-2

Compound	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	RPD
1,1-Dichloroethene	50.0	46.9	94	45.3	91	3.4
Benzene	50.0	50.9	102	49.7	99	2.4
Trichloroethene	50.0	54.4	109	51.5	103	5.4
Toluene	50.0	48.0	96	46.6	93	3.0
Chlorobenzene	50.0	49.4	99	48.0	96	2.9

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471

Date Extracted: 08-27,29-97
Date Analyzed: 08-28,29-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-127-1
Client ID: B-4,S-1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	14
Barium	6010	1.0	**43**	0.69
Cadmium	6010	1.0	**ND**	0.69
Chromium	6010	1.0	**9.6**	0.69
Lead	6010	1.0	**ND**	6.9
Mercury	7471	1.0	**ND**	0.35
Selenium	6010	1.0	**ND**	14
Silver	6010	1.0	**ND**	0.69

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
METHOD BLANK QUALITY CONTROL

Date Extracted: 08-27,29-97
Date Analyzed: 08-28,29-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0827S1
MB0828S1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	6010	1.0	**ND**	10
Barium	6010	1.0	**ND**	0.50
Cadmium	6010	1.0	**ND**	0.50
Chromium	6010	1.0	**ND**	0.50
Lead	6010	1.0	**ND**	5.0
Mercury	7471	1.0	**ND**	0.25
Selenium	6010	1.0	**ND**	10
Silver	6010	1.0	**ND**	0.50

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
DUPLICATE QUALITY CONTROL

Date Extracted: 08-21&24-97
Date Analyzed: 08-22&24-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-079-16

Analyte	Dilution	Sample Result	Duplicate Result	RPD	Flags	PQL
Arsenic	1.0	**ND**	**ND**	NA		10
Barium	1.0	**37.1**	**37.8**	1.9		0.50
Cadmium	1.0	**ND**	**ND**	NA		0.50
Chromium	1.0	**24.1**	**22.5**	6.9		0.50
Lead	1.0	**5.15**	**ND**	NA		5.0
Mercury	1.0	**ND**	**ND**	NA		0.25
Selenium	1.0	**ND**	**ND**	NA		10
Silver	1.0	**ND**	**ND**	NA		0.50

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

TOTAL METALS
EPA 6010/7471
MS/MSD QUALITY CONTROL

Date Extracted: 08-21&24-97
Date Analyzed: 08-22&24-97

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-079-16

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	**83.9**	84	**86.9**	87	3.6	
Barium	100	**129**	92	**131**	94	2.3	
Cadmium	50	**45.4**	91	**44.9**	90	1.0	
Chromium	100	**118**	94	**119**	95	1.9	
Lead	250	**209**	82	**210**	82	0.49	
Mercury	2.5	**2.32**	93	**2.22**	89	4.6	
Selenium	100	**79.6**	80	**77.2**	77	3.0	
Silver	50	**27.7**	55	**25.9**	52	6.7	

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Total Metals
EPA 6010/7000 Series

Date Extracted: 08-26&27-97
Date Analyzed: 08-26,27,28-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-127-7
Client ID: MW-5

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	7060	1.1	**15**	3.3
Barium	6010	1.1	**180**	**11**
Cadmium	6010	1.1	**ND**	4.4
Chromium	6010	1.1	**13**	11
Lead	7421	1.1	**41**	1.1
Mercury	7470	1.0	**ND**	0.50
Selenium	7740	1.1	**ND**	6.6
Silver	6010	1.1	**ND**	11

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Total Metals
EPA 6010/7000 Series
METHOD BLANK QUALITY CONTROL

Date Extracted: 08-26&27-97
Date Analyzed: 08-26&27-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB082697
MB082797

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	7060	1.1	**ND**	3.3
Barium	6010	1.1	**ND**	11
Cadmium	6010	1.1	**ND**	4.4
Chromium	6010	1.1	**ND**	11
Lead	7421	1.1	**ND**	1.1
Mercury	7470	1.0	**ND**	0.50
Selenium	7740	1.1	**ND**	6.6
Silver	6010	1.1	**ND**	11

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Total Metals
EPA 6010/7000 Series
DUPLICATE QUALITY CONTROL

Date Extracted: 08-26&27-97
Date Analyzed: 08-26&27-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-116-1

Analyte	Method	Dilution Factor	Sample Result	Duplicate Result	RPD	Flags	PQL
Arsenic	7060	1.1	**ND**	**ND**	NA		3.3
Barium	6010	1.1	**ND**	**ND**	NA		11
Cadmium	6010	1.1	**ND**	**ND**	NA		4.4
Chromium	6010	1.1	**ND**	**ND**	NA		11
Lead	7421	1.1	**ND**	**ND**	NA		1.1
Mercury	7470	1.0	**ND**	**ND**	NA		0.5
Selenium	7740	1.1	**ND**	**ND**	NA		6.6
Silver	6010	1.1	**ND**	**ND**	NA		11

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Total Metals
EPA 6010/7000 Series
MS/MSD QUALITY CONTROL

Date Extracted: 08-26&27-97
Date Analyzed: 08-26&27-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-116-1

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD
Arsenic	55	**56.8**	103	**61.3**	111	7.6
Barium	2200	**2180**	99	**2170**	99	0.40
Cadmium	1100	**1030**	94	**1030**	94	0.19
Chromium	2200	**2110**	96	**2080**	95	1.4
Lead	27.5	**30.9**	112	**29.2**	106	5.9
Mercury	5.0	**4.87**	97	**4.71**	94	3.3
Selenium	55	**54.3**	99	**56.0**	102	3.0
Silver	1100	**1030**	94	**1030**	93	0.75

Date of Report: September 2, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Date Analyzed: 8-27-97

% MOISTURE

Client ID	Lab ID	% Moisture
B-4, S-1	08-127-1	28
B-1, S-3	08-127-2	22

OnSite Environmental Inc.

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 limits due to sample inhomogeniety. 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

Chain Of Custody

Page 1 of 1

OnSite Environmental Inc.
14924 NE 31st Circle • Redmond, WA 98052
Fax: (206) 885-4603 • Phone: (206) 883-3881

Company: AGRA E&E
Project No: 7-91M-11802
Project Name: Long Painting Co
Project Manager: John Cooper

Turn Around Requested (Check One)
- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ Standard
- ☒ Verbals by Friday (other)

Project Chemist: KPH
Laboratory No. 08-127

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	WTPH-HCID	WTPH-G/BTEX	WTPH-D ex T.	WTPH-418.1	Volatiles by 8240/624	Volatiles by 8260	Chlorinated Volatiles by 8240/8260/624	Semivolatiles by 8270/625	PAHs by 8270/625	PCB's by 8080/608	Total RCRA Metals (8)	TCLP Metals	Dissolved As, Ba, Pb							% Moisture
1	B-4, S-1	8-26	AM	Soil	1 4oz							X				X									X
2	B-1 S-3	8-26	AM	Soil	1 4oz			X																	X
3	MW-1	"	PM	WA				X																	
4	MW-2	"	"	"		⊗	☒	☒																	
5	MW-3	"	"	"		⊗	☒	☒																	
6	MW-8	"	"	"		X						X													
7	MW-5	"	"	"								X				X		◎							
8	MW-6	"	"	"			X	X																	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John T. Cooper	8-26-97	V Henzi	8/26/97
FIRM: AEE	TIME: 4:05	FIRM: OSE	TIME: 4:05
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
☒ Hold pending HCID. 8/27/97 DB.
⊗ Added 8/27/97. DD
◎ Added 9/3/97 per J.C request. DB

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

LP_00212

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

September 10, 1997

John Cooper
Agra Earth & Environmental
11335 NE 122nd Way Suite 100
Kirkland, WA 98034

Re: Analytical Data for Project 7-91M-11802
Laboratory Reference No. 9708-127

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 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,

Karl P. Hornyik
Lab Manager

Enclosures

14924 NE 31st Circle • Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: September 10, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Dissolved Metals
EPA 6010/7000 series

Date Filtered : 9-03-97
Date Analyzed: 9-03,04,09-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-127-7
Client ID: MW-5

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	7060	1.0	**ND**	3.0
Barium	6010	1.0	**100**	10
Lead	7421	1.0	**1.4**	1.0

Date of Report: September 10, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Dissolved Metals
EPA 6010/7000 series
METHOD BLANK QUALITY CONTROL

Date Extracted: 9-03-97
Date Analyzed: 9-03,04,09-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0903W1

Analyte	Method	Dilution Factor	Result	PQL
Arsenic	7060	1.0	**ND**	3.0
Barium	6010	1.0	**ND**	10
Lead	7421	1.0	**ND**	1.0

Date of Report: September 10, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Dissolved Metals
EPA 6010/7000 series
DUPLICATE QUALITY CONTROL

Date Extracted: 9-03-97
Date Analyzed: 9-03,04,09-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-127-7

Analyte	Method	Dilution Factor	Sample Result	Duplicate Result	RPD	PQL
Arsenic	7060	1.0	**ND**	**ND**	NA	3.0
Barium	6010	1.0	**103**	**98.5**	4.5	10
Lead	7421	1.0	**1.36**	**1.30**	4.5	1.0

Date of Report: September 10, 1997
Samples Submitted: August 26, 1997
Lab Traveler: 08-127
Project: 7-91M-11802

Dissolved Metals
EPA 6010/7000 series
MS/MSD QUALITY CONTROL

Date Extracted: 9-03-97
Date Analyzed: 9-03,04,09-97

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-127-7

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD
Arsenic	50	**46.1**	92	**46.5**	93	0.86
Barium	2000	**2020**	96	**2180**	104	8.1
Lead	25	**22.5**	85	**22.6**	85	0.42

OnSite Environmental Inc.

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 limits due to sample inhomogeniety. 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

Chain Of Custody

OnSite Environmental Inc.
14924 NE 31st Circle • Redmond, WA 98052
Fax: (206) 885-4603 • **Phone: (206) 883-3881**

Company: AGRA E&E
Project No: 7-91M-11802
Project Name: Long Painting Co
Project Manager: John Cooper

Turn Around Requested (Check One):
- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ Standard
- ☒ Verbals by Friday (other)

Project Chemist: KPH
Laboratory No. 08-127

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. Cont.	WTPH-HCID	WTPH-G/BTEX	WTPH-D ext.	WTPH-418.1	Volatiles by 8240/624	Volatiles by 8250	Chlorinated Volatiles by 8240/8260/624	Semivolatiles by 8270/625	PAHs by 8270/625	PCB's by 8080/608	Total RCRA Metals (8)	TCLP Metals	Dissolved As, Ba, Pb						% Moisture
1	B-4,-S-1	8-26	AM	Soil	1 4oz							X				X								X
2	B-1 S-3	8-26	AM	Soil	1 4oz			X																X
3	MW-4	"	PM	Wat				X																
4	MW-2	"	"	"		X	X[c]	X[c]																
5	~~MW~~-3	"	"	"		X	X[c]	X[c]																
6	MW-4	"	"	"		X						X												
7	MW-5	"	"	"								X				X		◎						
8	MW-6	"	"	"			X	X																

RELINQUISHED BY	DATE	RECEIVED BY	DATE
John T. Cooper	8-26-97	V. Henzi	8/26/97
FIRM: AGE	TIME: 4:05	FIRM: OSE	TIME: 4:05
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
☒ Hold pending HCID. 8/27/97 DB.
[c] Added 8/27/97. DD
◎ Added 9/3/97 per T.C. request. DB

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