

LUST rel. # ~~4409~~ 5414

~~BUMAS7~~ ASP German Car Repair

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4-13-99/SEK

## ASP GERMAN CAR REPAIR UST CLEANUP REPORT

RECEIVED

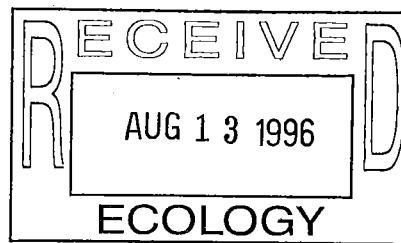
OCT 06 1998

DEPT. OF ECOLOGY

Project #AGCRUST96

Prepared for  
ASP German Car Repair  
17704 Fifteenth Avenue, North East  
Seattle, WA 98155

31 July 1996



Prepared by

**EMC**

ENVIRONMENTAL MANAGEMENT & CONSULTING, INC.

Post Office Box 95589

Seattle, Washington 98145

Nels B. Cone, Project Manager

(206) 782-9254

DEPARTMENT OF ECOLOGY NWRO/TOP TANKS UNIT	
INTERIM CLEANUP REPORT	<input type="checkbox"/>
SITE CHARACTERIZATION	<input checked="" type="checkbox"/>
FINAL CLEANUP REPORT	<input checked="" type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input type="checkbox"/>
INSPECTOR (INIT.) <u>SEK</u>	DATE <u>4-13-99</u>

Did not test for chlorinated solvents, but  
no indication that they were a  
problem.

## FORWARD

This report is the instrument of services prepared by Environmental Management & Consulting, Inc. (EMC) for the exclusive use by ASP German Car Repair (ASP). In order to create a report on which ASP could rely, EMC worked closely with ASP in developing the scope of service upon which all subsequent tasks have been based. To achieve the objectives stated in this report, EMC was required to base conclusions and professional opinions on the best available information during the period in which services were conducted, and within the limits prescribed by ASP in the Contractual Agreement (signed 6/10/96). EMC's professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. The findings, conclusions, and professional opinions contained in this report have also been prepared by EMC in accordance with generally accepted professional practice. Preliminary and fundamental information for this report was provided by a third party, ASPEN Environmental, Ltd. (AEL) of Mulkiteo, Washington. Even though this information was generally assumed to be accurate and due diligence was made to verify the accuracy of it, professional inaccuracy within this third party information can not be ruled out. As such, no warranty or guarantee, expressed or implied is made as to the professional conclusions or opinions contained in this report. The limitations contained in this report supersede all other covenants, implied or otherwise, except those stated or acknowledged with in the previous signed Contractual Agreement.

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## EXECUTIVE SUMMARY

One underground storage tank (UST) was excavated and removed on 1 September 1994 by ASPEN Environmental, Ltd. (AEL) of Mulkiteo, Washington. During its life in service, this 190 gallon UST was used for waste oil storage. Actual installation date of this tank was estimated to be prior to 1970. The UST reportedly showed signs of product release at some time in the past. Prior to UST decommissioning activities, there exists no documented release from the tank. Transportation of the UST off site, along with cleaning and disposal, was performed by AEL. During UST removal, oversight was provided by AEL for segregation of clean soils from impacted soils.

Approximately 40 cubic yards of impacted soils were excavated and staged on site by AEL. At no time did AEL encounter evidence of groundwater during excavation activities. The excavation was then back filled by soils provided by AEL. In accordance with Washington State UST regulations, product release to the environment was reported to the Washington State Department of Ecology's (Ecology) Central Office in September 1994.

A total of thirteen (13) samples were taken during three rounds of sampling. Three initial samples were taken by AEL for hydrocarbon analysis (Method WTPH-418.1) to determine petroleum impact to soils. AEL took six additional soil samples to determine the results of impacted soil removal activities. Three more samples for soil treatment profiling of hydrocarbons and one sample for PCB testing (USEPA Method 8080) were taken by AEL. One additional sample was taken by Environmental Management & Consulting, Inc. (EMC) for final soil treatment profiling of heavy metals (USEPA Methods 6010A, 7060, 7471, & 7740).

Reported concentrations of hydrocarbon compounds as WTPH-418.1 in soils ranged from non-detectable levels, up to a maximum of 220,000 mg/kg (ppm). Reported concentrations of PCBs or metals above regulatory action levels were not found. EMC performed final cleanup activities in accordance with Washington State Toxics Cleanup Program. EMC directed transport of impacted soils off site to a licensed treatment facility. This facility, TPS Technologies, Inc. of Tacoma, Washington (TPS), effectively remediated/recycled the impacted soils.

## 1.0 INTRODUCTION

### 1.1 PURPOSE

On 10 June 1996 Environmental Management & Consulting, Inc. (EMC) was retained as consultant by ASP German Car Repair (ASP) of Seattle, Washington. The purpose of these consulting services was to provide final clean-up and reporting activities associated with decommissioning of a 190 gallon underground storage tank (UST) formerly used for waste oil storage. This tank was excavated, removed, and disposed of by ASPEN Environmental, Ltd. (AEL) of Mukilteo, Washington. Cleanup activities associated with this tank are regulated by Washington State Model Toxics Cleanup Act (MTCA). This tank is subject to the release reporting requirements of the WAC 173-360-372. This report evaluates the tasks performed by AEL during UST decommissioning, and documents the tasks completed by EMC during the site clean-up activities, along with summarizing the relevant findings and conclusions.

### 1.2 SCOPE OF WORK

The scope of work conducted was mutually developed and outlined in the Contractual Agreement (10 June 1996). The scope was based upon requirements by the State of Washington Department of Ecology (Ecology) for UST decommissioning and site clean-up, and known site conditions. The project scope detailed in the Contractual Agreement included the items listed below:

- 1) Perform required soil testing of heavy metals for disposal/treatment according to State regulations.
- 2) Coordinate the removal/transport of impacted soils, and their final disposal/treatment according to State regulations.
- 3) Provide the required cleanup report (encompassing AEL tank decommissioning activities) promulgated under Ecology's Toxics Cleanup Program (MTCA, Chapter 173-340, WAC).

## 2.0 BACKGROUND

### 2.1 SITE HISTORY

The ASP site lies in a mature commercial strip towards the North end of the City of Seattle, Washington. In 1983 ASP German Car Repair purchased the property from Victor Green, who operated a "Gull" franchised gas station. Actual inception date of the Gull station is unknown. Since 1983 the site has been operated by ASP German Car Repair for the mechanical repair of automobiles.

Only one waste oil UST is recorded as being installed at the subject site. Actual installation date of this tank is estimated to be sometime prior to 1970. This tank left active service over five years ago. During its useful lifetime, it was used exclusively for the storage of used automobile motor oil. There is no history of transformer fluids or metal drilling fluids present on site.

Prior to UST decommissioning activities there exists no documented release from this tank. During the course of UST decommissioning activities, evidence of impacted soils from a past release was present. In accordance with Washington State UST regulations, waste oil release from this tank was reported to the Ecology's Central Office on 1 September 1994.

### 2.2 SITE DESCRIPTION

The ASP site is located in a commercially zoned area located at 17704 Fifteenth Avenue, N.E. Seattle, (King County), Washington. The reported legal description is Lot 47, Block 22, Code 2265, Lake Forest Park 3rd Addition, S107.5ft of Lot 47 less 15ft (Approved 6/3/87), Section 9, Range 4E, Township 26N. The approximate surface elevation is 470 feet above mean sea level, Latitude 47° 45' 35", Longitude 122° 18' 40".

The present day ASP site consists of an automobile repair garage and office amenities located within a main building with a small attached shed at the rear. In front of this building there are two former pump islands covered by an overhead canopy, with the remaining area covered in asphalt and used for occasional parking. Across an alleyway to the East lies a laundromat, butcher shop, and restaurant. Across a residential street to the South lies a larger parking lot and restaurant/pub. Across a medium-heavy use

public road to the West lies a Texaco gas station, additional parking areas, and an espresso stand. Across a parking lot to the North, lies a clothing store and novelty shop. The commercially zoned ASP site lies within a greater residential area. ASP business activities employ two individuals and operates on a year-round basis. The subject site receives its drinking water, sewer service, and utilities by public hook-up, as do the surrounding properties. Overall, the subject site displays above-average housekeeping practices. At present, used motor oil is drum collected, and disposal contracted with Basin Oil Company of Seattle, Washington.

### 2.3 SITE GEOLOGY AND HYDROGEOLOGY

The ASP site is located within the greater Puget Sound Basin. This area was shaped by the action of glaciers thousands of years ago. Deposits resulting from these actions overlie metamorphic bedrock. These deposits commonly include alluvium, and glacial recessional out-wash. Grain sizes in these deposits range from silty sand up to two foot angular boulders. Excavated soils staged on site conform to this description, and consist mostly of inorganic silts, compacted sandy soils, and one inch to four inch cobbles (ASTM classification: SM). A record of soils encountered by AEL within the UST excavation are presented the Site Test Pit Logs in Appendix A.

The ASP site lies near no open water, creeks, or riparian areas. Storm water runoff direction is in a southwesterly direction. Assuming the present day ground contours are at or near the original surface grade, groundwater flow in a southwesterly direction may also be inferred. At no time did AEL encounter evidence of groundwater during excavation activities.

Research into the depth to groundwater was performed. Results of this research were obtained from three different document sources. The first, Water Supply Bulletin #20, Geology of Groundwater Resources of North West King County (USGS & the Washington Department of Conservation), indicates water bearing deposits in this area are over 100 feet below ground surface (bgs). According to this bulletin, the groundwater flow is in a west by south-west direction and no natural springs exist within the surrounding one mile. The second source, Water Well Logs by the Washington State Department of Ecology indicate no drinking water wells in the surrounding one mile. Lastly, King County Department of Health Groundwater Management Studies confirm the absence of nearby drinking water wells, and that all

residences within the surrounding one mile are expected to have public water connections.

### 3.0 METHODS

#### 3.1 UST EXCAVATION AND REMOVAL

On 9 June 1994, a UST 30 Day Notice-Intent to Close was received by Ecology from the ASP property. A copy of this notice is presented in Appendix B. On 1 September 1996, one 190 gallon waste oil UST was excavated and removed from the ASP site by AEL. Information provided during these activities indicates that no remaining product was found in the tank. These findings are consistent with the history of the tank not having been used for over five years. UST and associated piping inspection was performed by AEL. Apart from discovery of product release, reported excavation and removal activities proceeded as planned. Reported decommissioning of the fill and drain piping is also indicated. The UST was transported off-site by AEL to their Mulkiteo Facility for final cleaning and disposal. A UST Disposal Certification is presented in Appendix C. Approximately 40 cubic yards of impacted soils were removed from the UST excavation by AEL. The reported horizontal dimensions of the excavation reached a maximum of ten feet (north to south) by six feet (east to west), with a reported maximum depth of approximately twelve (12) feet.

#### 3.2 SOIL SAMPLING

A total of thirteen (13) samples were taken during three rounds of sampling. On 1 September 1994, three initial samples were taken by AEL for hydrocarbon analysis (Method WTPH-418.1) to determine petroleum release to soils. On 17 November 1994, six secondary soil samples were taken by AEL to determine the results of impacted soils removal activities. Three more samples for soil treatment profiling of hydrocarbons and one sample for PCB testing (USEPA Method 8080) were taken by AEL. These samples were arranged for laboratory analysis at CCI Laboratories of Everett, Washington. The reported soil sample locations are depicted in Figure 1. On 10 June 1996, one composite sample was taken by EMC for final soil treatment profiling of heavy metals (USEPA Methods 6010A, 7060, 7471, & 7740). This last sample consisted of a composite of four different volumes from the staged soil pile. A new stainless steel sampling spoon was used to collect soil samples for placement into a



clean stainless steel mixing bowl. The combined volumes were then manually homogenized. From the homogenized soil mixture one sample was taken and placed into a sealed 10 oz. glass container. The sample was properly labeled and immediately stored within an ice-filled cooler. The properly completed chain-of-custody form accompanied the sample to the laboratory, (Columbia Analytical Services, Bothell, Washington).

### 3.3 IMPACTED SOILS STAGING

Petroleum impacted soils were encountered during UST decommissioning activities performed by AEL. AEL reportedly transferred these soils to an area directly South of the main property building, and placed them upon a protective plastic liner. An additional plastic barrier was placed over the top of soils. These impacted soils were held at this staging area for subsequent off-site transport and treatment.

### 3.4 IMPACTED SOILS REMOVAL AND TRANSPORT

Upon receipt of analytical profiling results required for soils treatment, a Soil Data Certification sheet was completed for soil treatment by TPS Technologies, Inc. Of Tacoma, Washington (TPS). A copy of the Soil Data Certification sheet is presented in Appendix D. Manifests for the impacted soils were properly completed and the staged soils were arranged for removal and transport by JLA Construction of Puyallup, Washington. On 2 July 1996 JLA Construction arrived on site and proceeded to remove the impacted soils. Copies of Manifests for impacted soils (non-hazardous waste) are presented in Appendix E. All work was performed using standard Health and Safety measures ordinarily required for environmental remediation projects. All site workers had current 40-hour OSHA certification. A reported total of approximately sixty-three (63.47) tons of impacted soils were transported off site in two loads of a dump truck and tandem bed trailer.

### 3.5 IMPACTED SOILS TREATMENT

Upon acceptance of the properly completed Manifest, the impacted soils are then carefully weighed and inspected upon arrival by TPS facility personnel. The petroleum impacted soils are then processed for remediation/recycling by thermal desorption. Upon final remediation/recycling, TPS then issues a soil recycling certificate (Appendix

H). The thermal desorption process reportedly is effective in removing petroleum from impacted soils to levels deemed safe by current applicable regulations. The TPS facility is fully permitted by the Tacoma-Pierce County Health Department, the regional air quality board (PSAPCA), and the Washington State Department of Ecology.

## 4.0 RESULTS

### 4.1 UST INSPECTION RESULTS

The UST and associated piping inspection was accomplished by AEL. AEL reportedly found product release to have occurred from a breach near the associated piping. No waste oil product was reported to remain in the tank. Along with a completed UST Disposal Certification (Appendix C), a UST Closure/Site Assessment Notice was generated by AEL. A copy of the UST Closure/Site Assessment Notice is presented in Appendix F.

### 4.2 EXCAVATION RESULTS

During UST decommissioning, initial AEL sample results reported impacted soils within the former UST excavation. Approximately 40 cubic yards of soil were excavated from the ground surrounding the area of the former UST placement. Subsequent AEL sample results reportedly indicate appropriate impacted soils excavation. Test Pit Logs (Appendix A) were performed on 17 November 1994 by AEL during excavation activities. These Test Pit Logs report the presence of multi-colored gravelly sands at various levels to a maximum depth of 12 feet. At no time did AEL report encountering groundwater. The excavation was subsequently replaced with back-fill provided by AEL. The surface contour was then finished and brought to grade by ASP German Car Repair personnel.

### 4.3 SOIL ANALYTICAL RESULTS

Analytical reports from the three rounds of sampling provided twelve results from hydrocarbon analysis (WTPH-418.1), one result from PCB analysis (USEPA Method 8080), and one result from heavy metals analysis (USEPA Methods 6010A, 7060, 7471, & 7740). Reported concentrations in samples taken by AEL for hydrocarbon compounds in soils ranged from non-detectable levels, up to a maximum of 220,000 mg/kg (ppm). Reported concentration of PCBs in a sample taken by AEL indicates no

PCB concentrations above regulatory action levels required for soils transport or cleanup. No metal concentrations above regulatory action levels required for transport or cleanup were reported. Analytical reports from CCI Laboratories and Columbia Analytical Services, and available chain-of-custody documentation are provided in Appendix G. Summaries of the soil analytical results are presented below in Tables 1, 2, & 3. Site sample locations are shown in Figure 1.

**Table 1: SOIL ANALYTICAL RESULTS-TANK EXCAVATION ACTIVITIES**

**Total Petroleum Hydrocarbons (WTPH-418.1)**

Sample Date	*Sample Locations	Sample Depth(feet)	Sample ID	TPH mg/kg (ppm)
9/1/94	1	6.75	SS#1	21,000
9/1/94	2	NA	SS#2	89,000
9/1/94	3	3.0	SS#3	220,000

NA = Sample taken from excavated soil pile. Washington State Department of Ecology MTCA (Method A) Soil Cleanup Level is 200 ppm.

\*Sample Locations are diagrammed in Figure 1.

**Table 2: SOIL ANALYTICAL RESULTS-IMPACTED SOILS EXCAVATION**

**Total Petroleum Hydrocarbons (WTPH-418.1)**

Sample Date	*Sample Locations	Sample Depth(feet)	Sample ID	TPH mg/kg (ppm)
10/17/94	4	12.0	BS-1	110
10/17/94	5	12.0	BS-2	ND
10/17/94	6	7.5	EW-S1	ND
10/17/94	7	8.0	WW-S1	ND
10/17/94	8	8.0	SW-S1	ND
10/17/94	9	7.5	NW-S1	ND

ND = No detected presence of hydrocarbon at the Method Detection Limit of 100 ppm. Washington State Department of Ecology MTCA (Method A) Soil Cleanup Level is 200 ppm. \*Sample Locations are diagrammed in Figure 1.

**Table 3a: SOIL ANALYTICAL RESULTS-PROFILING FOR TREATMENT**  
**Total Petroleum Hydrocarbons (WTPH-418.1)**

Sample Date	*Sample Locations	Sample ID	TPH mg/kg (ppm)
10/17/94	10	SP-1	400
10/17/94	11	SP-2	1000
10/17/94	12	SP-3	650

Washington State Department of Ecology MTCA (Method A) Soil Cleanup Level is 200 ppm. \*Sample Locations are diagrammed in Figure 1.

**Table 3b: SOIL ANALYTICAL RESULTS-PROFILING FOR TREATMENT**  
**PCBs (USEPA Method 8080) in Staged Soils\* reported in mg/kg (ppm)**

Sample Date	Sample ID	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
10/17/94	SP-1	ND	ND	ND	ND	0.1	ND	ND

ND = No detected presence of PCBs at the Method Detection Limit of 0.1 ppm. Washington State Department of Ecology MTCA (Method A) Soil Cleanup Level is 1.0 ppm. \*Staged Soil location is diagrammed in Figure 1.

**Table 3c: SOIL ANALYTICAL RESULTS-PROFILING FOR TREATMENT**  
**Metals in Staged Soils\* reported in mg/kg (ppm)**

Sample Date	Sample ID	Arsenic †7060	Barium †6010A	Cadmium †6010A	Chromium †6010A	Lead †6010A	Mercury †7471	Selenium †7740	Silver †6010A
6/10/96	ASP-M1	2	58	ND	22	82	ND	ND	ND

†USEPA Method Number. ND = No detected presence of metals at associated Method Detection Limit listed in Analytical Report. Washington State Department of Ecology Action Level for each metal is listed in the MTCA regulations. \*Sample Locations are diagrammed in Figure 1.

#### 4.4 SOIL TREATMENT RESULTS

On 3 July 1996, a reported total of 63.47 tons of impacted soils were transported to the TPS Treatment/Recycling facility by JLA Construction. The impacted soils arrived at the TPS state licensed facility without evidence of tampering while in transit. The properly completed Manifests for Impacted Soils accompanied the shipment, and soils were accepted by TPS without incident. The soils were then subjected to remediation by thermal desorption of the TPH compounds. Following processing of the soils through the thermal desorption treatment train, confirmatory in-house analysis was performed by TPS. Reported results from this analysis indicate non-detectable levels of hydrocarbon contaminants. A documented soil treatment/recycling certificate indicating that soils remediation has been achieved is presented in Appendix H.

#### 5.0 CONCLUSIONS

The activities described within this report were prepared in accordance the Washington State Model Toxics Cleanup Act and Chapter 173-360 WAC. The following conclusions are based upon information generated by AEL during UST decommissioning, and site clean-up activities provided by EMC for ASP German Car repair.

One 190 gallon waste motor UST was decommissioned at the ASP property. Information provided by AEL during UST decommissioning indicated the presence of hydrocarbon concentrations exceeding MTCA Method A cleanup levels for soils (200 ppm), contained within the UST excavation. Evidence indicating waste motor oil release to the environment was reported to Ecology on 1 September 1994. The exact timing of this release may only be inferred as sometime in the past. Given that this UST was installed prior to 1970, it is conceivable that release may have occurred sometime during the active life of the tank.

During UST excavation by AEL no groundwater was discovered, nor is impact to the groundwater suspected. Research of published data indicates a depth to ground water greater than 100 feet.

Information provided by AEL indicates that impacted soils were subsequently excavated and staged on site. EMC coordinated the transport of these staged soils off

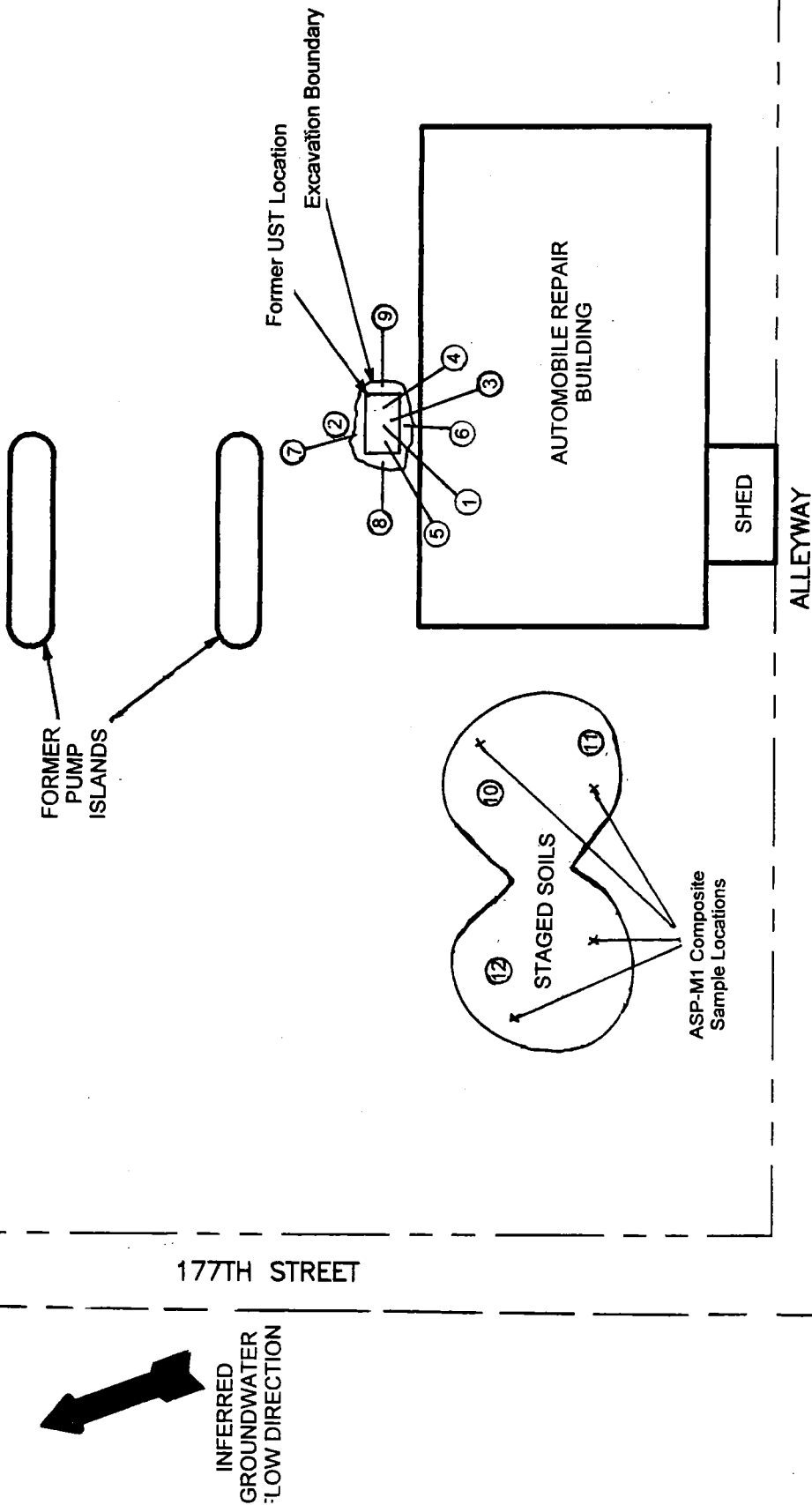
site. These soils were transported to a licensed treatment facility where they underwent remediation via thermal desorption.

Tasks expected to mitigate release to the ASP site have occurred. Analytical results reported from excavation activities would indicate that no threats to human health nor the environment are evident as a result of this waste motor oil release. The findings of this report would indicate that no further action, nor environmental investigation is warranted as a result of the past waste motor oil release. This report summarizes the events associated with UST decommissioning and site cleanup activities, and can be considered as documentation for these purposes only.

## **FIGURES, PHOTOGRAPHS**

15TH AVENUE NE

177TH STREET



**Figure 1.**  
**SUBJECT SITE MAP**  
 ASP GERMAN CAR REPAIR  
 Date 7/17/96  
 EMC PROJECT: #AGCRUST96

④= SAMPLE LOCATION SITE





Photograph 1. Property view facing Southeast. Fluorescent cones indicate former UST site.



Photograph 2. Impacted soils excavation activities by AEL.



Photograph 3. Excavation interior during impacted soils removal by AEL



Photograph 4. Property view facing North by Northeast. Impacted soils staged by AEL



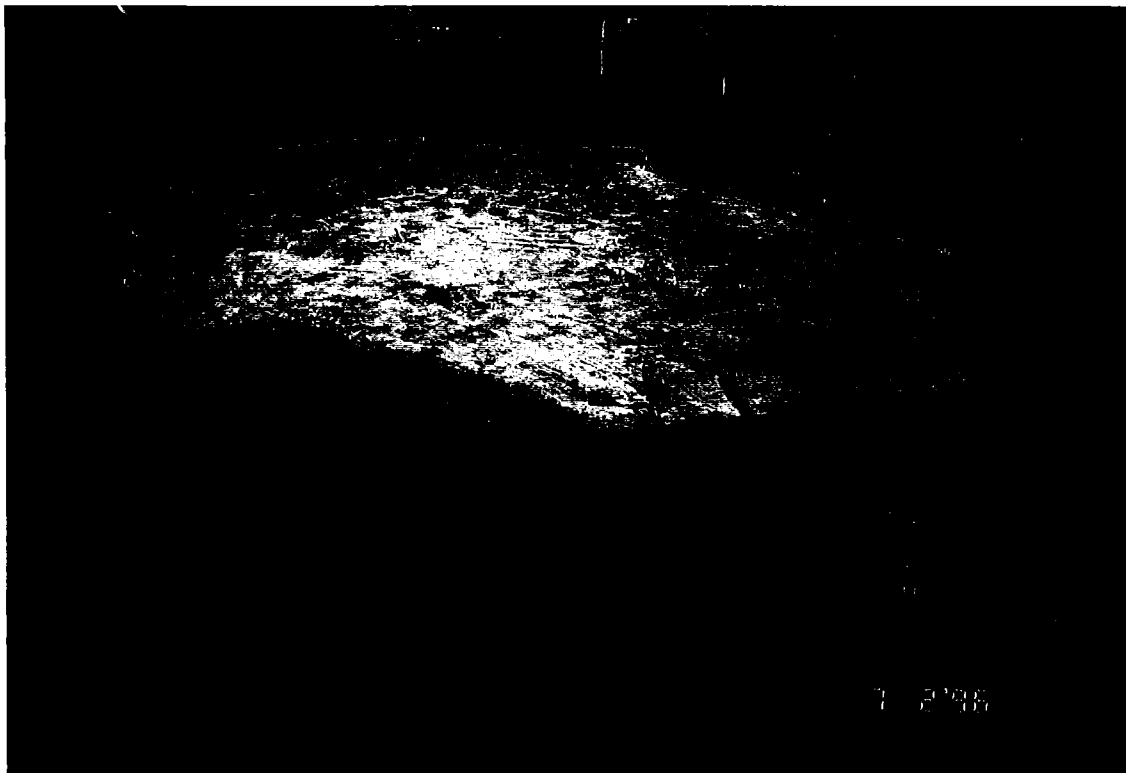
Photograph 5. Staged soils pile, view facing North.



Photograph 6. Staged soils pile, view facing South.



Photograph 7. Property view facing North. Impacted soils removed from site.



Photograph 8. Finished surface grade of former UST site.

## **APPENDIX A. SITE TEST PIT LOGS**

Project	ASP German Gun Repair
Location	177th ST

Hour 11:50 Job No. 7  
Date 16/17 Observer TJC

Job No. 7  
Observer TJC

19

## Sample

## Depth feet

## SOIL INTERPRETATION

**Ground Surface Elevation Approximately Feet**

**Fet**

From-Bootham North

[illegible]

medium light brown, slightly due to coarse gravel, silty, fine pebbles  
graded sand

From Exton South.

7	
8	
12	
	X

med. bluish gray, <sup>fine to c. b. for</sup> slightly ~~gray~~ med. to fine micaceous  
fractured sand

West Wall

4	2	12
---	---	----

Greenish gray, slightly fine to coarse grained, slightly silty  
min. to fine sand.

14	
8	
12	

dark (sh. like), greenish grey fine slightly gravelly, silty med to coarse sand

Bottom of Test Pit \_\_\_\_\_ Feet

**Completed**

Remarks

Project Aspen Environmental ASD German  
Location 177th

Hour 1245  
Date 10/17

Job No. TSC  
Observer TJC

Sample

Depth  
feet

SOIL INTERPRETATION

Ground Surface Elevation Approximately \_\_\_\_\_ Feet

3  
6  
9

@ 3' (dred) greenish gray, slightly gravelly, silty to clay silt  
medium to fine sand. fine to coarse

3  
6  
9

@ 3' (dred) light brown, slightly fine gravel, silty fine to  
medium sand.

Remarks

Stack piles (12 by 8 x 4) (12 by 8 by 6) = 50 yds.  
3 samples SP-1, 2, 3

Bottom of Test Pit

Feet

Completed

## **APPENDIX B. UST THIRTY DAY CLOSURE NOTICE**





## UNDERGROUND STORAGE TANK

**30 DAY NOTICE**

See back of form for instructions

Please ☒ the appropriate box☐ Intent  
to Install☒ Intent  
to Close

For Office Use Only

Owner # U0009382Site # 101052☐ Both**SITE INFORMATION:**Site ID Number (on invoice or available from Ecology if the tank is registered): 101052Site/Business Name: A.S.P. German Car RepairSite Address: 17704 15th Ave. N.E.Owner/Operator  
Telephone: (206) 364-7770Seattle,

Street

WA

State

98155

ZIP-Code

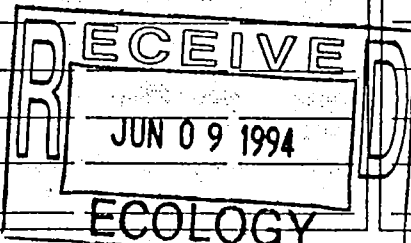
**TANK INFORMATION:****TANKS TO BE CLOSED**

This section to be filled out ONLY if tanks are being removed

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date tank last used	Is there product in the tank? (yes/no)	If no, date tank was pumped
<u>1</u>	<u>7-7-94</u>	<u>190</u>	<u>Waste Oil</u>	<u>N/A</u>	<u>Yes</u>	

**TANKS TO BE INSTALLED**This section to be filled out ONLY  
if tanks are being installed

Tank ID	Approx. Install Date

**TANK INSTALLATION TO BE PERFORMED BY (if known):**This section to be filled out ONLY if tanks are being  
installed

Service Provider: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_

Street

P.O. Box

City

State

ZIP-Code

**TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):**This section to be filled out ONLY if tanks  
are being removedService Provider: Aspen Environmental, Ltd.Contact Name: Scott WaldalTelephone: (206) 347-1388Address: P.O. Box 318Mukilteo,

Street

WA98275

P.O. Box

State

ZIP-Code

This form will be returned to this address

JUST OWNER/  
OPERATOR Arnold S. PretzlaffMAILING  
ADDRESS 17704 15th Ave. S.E.Seattle,

Street

City

State

ZIP-Code

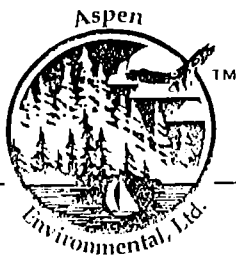
Once validated by Ecology, this form serves as your  
temporary permit for the tanks listed above.

Please type or print information

ECY 020-33

22

## **APPENDIX C. UST DISPOSAL CERTIFICATION**



# Aspen Environmental, Ltd.

Environmental & Ecological Services

## DISPOSAL CERTIFICATE

THIS IS A DISPOSAL CERTIFICATE. THIS CERTIFICATE INDICATES THAT THE FOLLOWING TANK(S) HAS (HAVE) BEEN DISPOSED OF IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS:

QUANTITY	GALLONAGE	DESCRIPTION
1	190	WASTE OIL UNDERGROUND STORAGE TANK

JOB# 94-06103

TRUCK# 36

DRIVER'S SIGNATURE

*Scott M. Miller* DATE: 9-1-94

SITE LOCATION 17704 15TH AVE. N.E. SEATTLE, WA 98155

CUSTOMER'S NAME: A.S.P. GERMAN CAR REPAIR (ARNOLD S. PRETZLAFF)

## **APPENDIX D. SOIL DATA CERTIFICATION SHEET**

Tacoma, WA  
Soil Recycling Facility

**TPS TECHNOLOGIES/WOODWORTH**  
Soil Data and Certification Sheet

Date: 6/25/96

<b>GENERATOR:</b> ASP GERMAN CAR REPAIR	<b>CONSULTANT:</b> EMC
Mailing Address: 17704 15th AVE, N.E.	Address: P.O. BOX 95589
SEATTLE, WA 98155	SEATTLE, WA 98145
Contact: ARNOLD/KATHLEEN PRETZLAFF	Contact: NELS CONE
Phone: ( 206 ) 364-7770	Phone: ( 206 ) 782-9254
Fax: ( )	Fax: ( 206 ) 782-9254
<b>SITE NAME:</b> ASP GERMAN CAR REPAIR	<b>TRANSPORTER:</b> COKAMAR TRUCKING JLA Construction
Street Address: 17704 15th AVE, N.E.	Address: --TPS CONTRACT --- Puyallup
SEATTLE, WA 98155	
Contact: ARNOLD/KATHLEEN PRETZLAFF	Contact: PETER HOGAN
Phone: ( 206 ) 364-7770	Phone: ( 800 ) 372-7755
Fax: ( )	Fax: ( )

**Site History**

Type of contamination (gas, diesel, used oil, coal tar, etc.) USED MOTOR OIL Estimated quantity in tons: 35-55

How did soil contamination occur? MOTOR OIL HOLDING TANK LEAKAGE

Source of Contamination: ☒ UST ☐ AST ☐ SPILL ☐ EMERGENCY RESPONSE ☐ OTHER

Name of Testing Lab: CAS and CCI Contact: COLIN ELLIOT Phone: 206-486-6983

How and where at site were samples taken? NOV.94 AND JUNE 96 SAMPLES WERE OBTAINED FROM EXCAVATED SOILS STAGED ON SITE AT ADDRESS ABOVE

Please check appropriate box below and attach all required analytical reports, including test methodologies used. Unless otherwise noted, discrete grab samples should be collected with the following frequency: Three samples for the first 150 tons, five samples for 750 tons or less, seven samples for 1500 tons or less, ten samples for 3000 tons or less, and one additional sample for each 750 additional tons.

☐ I certify that the soil referenced herein is contaminated solely by virgin petroleum products from leaking underground storage tank(s).

Attach analysis for the following:

1. Total petroleum hydrocarbons (WTPH-G, WTPH-D, WTPH-418.1)
2. Benzene/toluene/ethylbenzene/xylene (Method 8020 BTEX for gasoline soils only)
3. Total lead (Method 6010, 7420, or 7421 for gasoline soils only)

☒ I certify that some or all of the contaminants in the soil referenced herein is waste oil or some other non-virgin petroleum product, or virgin petroleum from a leaking above-ground storage tank or spill.

Attach analysis for the following:

1. Total petroleum hydrocarbons (WTPH-G, WTPH-D, or WTPH-418.1 Modified)
2. Benzene/toluene/ethylbenzene/xylene (Method 8020 BTEX for gasoline soils only)\*
3. Halogenated Volatile Organics (Method 8010, 8021, or 8240)
4. Pesticides and PCB's (Method 8080)
5. Total metals concentration for (a) through (h): \*  
(a) arsenic (d) chromium (g) selenium  
(b) barium (e) lead (h) silver  
(c) cadmium (f) mercury

\*If elevated benzene and total metal concentrations are detected, additional analyses for TCLP benzene and TCLP metals may be required.

No soils referenced herein may be delivered until this certificate is received and approved by TPST, and TPST issues manifest(s) and assigns a delivery date. If any soils delivered to TPST are found to be "hazardous waste" pursuant to federal regulations or "dangerous waste" pursuant to state regulations, Client shall be solely responsible for their removal. If Client fails to so remove such soils, TPST, acting as Client's agent, may arrange for such removal at Client's expense.

This is a complete and accurate description of the soil referenced herein; no deliberate or willful omissions have been made and all known or suspected hazards have been disclosed herein. I further hereby certify that the soil is not "hazardous" or "dangerous" as defined by U.S. Department of Transportation (DOT), U.S. Environmental Protection Agency (EPA), state of origin, State of Washington, or local regulations, and that no other knowledge concerning other TCLP constituents have been withheld. I further certify that the soils referenced herein contain no free liquids. All required analysis reports are attached.

Generator/Owner Authorized Signature: Nels Cone for Arnold/Kathleen Pretzlaff Date: 6/26/95

Print Name: ARNOLD or KATHLEEN PRETZLAFF

Title: SITE OWNERS

## **APPENDIX E. MANIFESTS FOR IMPACTED SOILS**

**Manifest****TPS Technologies Soil Recycling**

Non-Hazardous Soils

Manifest #

Date of Shipment:	Responsible for Payment: <b>Consultant</b>	Transporter Truck #:	Facility #: <b>03</b>	Given by TPS: <b>00794</b>	Load #: <b>1001</b>
-------------------	---	----------------------	--------------------------	-------------------------------	------------------------

Generator's Name and Billing Address: <b>ASP GERMAN CAR REPAIR</b> <b>17704 - 15th AVENUE NE</b>  <b>SEATTLE, WA 98155</b> <b>USA</b>	Generator's Phone #: <b>(206) 364-7770</b> Person to Contact: <b>ARNOLD PRETZLAFF</b> FAX#:	Generator's US EPA ID No.:
---	---	----------------------------

Consultant's Name and Billing Address: <b>EMC</b> <b>P.O. BOX 95589</b>  <b>SEATTLE, WA 98145</b> <b>USA</b>	Consultant's Phone #: <b>(206) 782-9254</b> Person to Contact: <b>NELS DONE</b> FAX#: <b>(206) 782-9254</b>	Customer Account Number with TPS: <b>3ASPGER</b>  <b>1002492</b>
--	--	---

Generation Site (Transport from): (name & address) <b>ASP GERMAN CAR REPAIR</b> <b>17704 - 15th AVENUE NE</b>  <b>SEATTLE, WA 98155</b> <b>USA</b>	Site Phone #: <b>(206) 364-7770</b> Person to Contact: <b>ARNOLD PRETZLAFF</b> FAX#:	BTEX Levels TPH Levels AVG. Levels
--	--	--

Designated Facility (Transport to): (name & address) <b>TPS Technologies Inc.</b> <b>2800 - 104th Street Court South</b>  <b>Tacoma, WA 98444-6766</b> <b>USA</b>	Facility Phone #: <b>206/584-8430</b> Person to Contact: <b>Renee Avelino</b> FAX#: <b>206/584-8309</b>	Facility Permit Numbers
---	--	-------------------------

Transporter Name and Mailing Address: <b>JLA CONSTRUCTION</b> <b>7503 - 131st STREET COURT EAST</b>  <b>PUYALLUP, WA 98373</b> <b>USA</b>	Transporter's Phone #: <b>(206) 531-9571</b> Person to Contact: <b>SCOTT TALERICO</b> FAX#: <b>(206) 848-5961</b>	Transporter's US EPA ID No.: Transporter's DOT No.: Customer Account Number with TPS: <b>3JLACON</b>
---	--	---

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month	Day	Year
X Arnold Pretzlaff	ASP German Car Repair	Mark Colby for ASP German Car Repair	7	1	96

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
J. Mark Colby				

Discrepancies:
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name:
RENEE AVELINO - CSM
Signature and date:

**Manifest****TPS Technologies Soil Recycling**

Non-Hazardous Soils

Manifest #

Date of Shipment:

Responsible for Payment:  
Consultant

Transporter Truck #:

Facility #:

03

Given by TPS:

00794

Load #

002

Generator's Name and Billing Address:

ASP GERMAN CAR REPAIR  
17704 - 15th AVENUE NE

SEATTLE, WA 98155

USA

Generator's Phone #:

(206) 364-7770

Person to Contact:

ARNOLD PRETZLAFF

FAX#:

Generator's US EPA ID No.:

Customer Account Number with TPS:

3ASPGER

Consultant's Name and Billing Address:

EMC  
P.O. BOX 95589

SEATTLE, WA 98145

USA

Consultant's Phone #:

(206) 782-9254

Person to Contact:

NELS CONE

FAX#:

(206) 782-9254

Customer Account Number with TPS:

1002492

Generation Site (Transport from): (name &amp; address)

ASP GERMAN CAR REPAIR  
17704 - 15th AVENUE NE

SEATTLE, WA 98155

USA

Site Phone #:

(206) 364-7770

Person to Contact:

ARNOLD PRETZLAFF

FAX#:

BTEX  
LevelsTPH  
LevelsAVG.  
Levels

Designated Facility (Transport to): (name &amp; address)

TPS Technologies Inc.  
2800 - 104th Street Court South

Tacoma, WA 98444-6766

USA

Facility Phone #:

206/584-8430

Person to Contact:

Renee Avelino

FAX#:

206/584-8309

Facility Permit Numbers

Transporter Name and Mailing Address:

JLA CONSTRUCTION  
7503 - 131st STREET COURT EAST

PUYALLUP, WA 98373

USA

Transporter's Phone #:

(206) 531-9571

Person to Contact:

SCOTT TALERICO

FAX#:

(206) 848-5961

Transporter's US EPA ID No.:

Transporter's DOT No.:

Customer Account Number with TPS:

3JLACON

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. *Nels Cone*

Print or Type Name: *Nels Cone* Generator ☐ Consultant ☐ Signature and date: *Nels Cone* Month *7* Day *2* Year *96*

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: *J. Mark Colby* Signature and date: Month Day Year

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:

RENEE AVELINO - CSM

Signature and date:



**APPENDIX F. UST CLOSURE/SITE ASSESSMENT NOTICE**



**UNDERGROUND STORAGE TANK  
TEMPORARY/PERMANENT CLOSURE  
and SITE ASSESSMENT NOTICE**

See back of form for instructions  
Please ☒ the appropriate box(es)  
Please type or print information

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

NW For Office Use Only JS  
Owner # U9382  
Site # 101052

**SITE INFORMATION**

Site ID Number (on invoice or available from Ecology if the tanks are registered): 101052  
Site/Business Name: ASP Environmental Care Repair  
Site Address: 17704 15<sup>th</sup> Ave S.E. Telephone: (206) 364-7770  
Seattle WA 98155  
City State ZIP Code

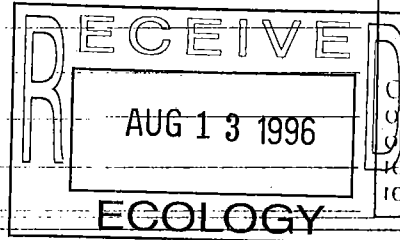
**TANK INFORMATION**

Tank ID: 01 Closure Date: 9-1-94 Tank Capacity: 170 Substances Stored: various oil

**CONTAMINATION  
PRESENT AT THE  
TIME OF CLOSURE**

☒ Yes ☐ No ☐ Unknown  
Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab

**COPY**



**UST SYSTEM OWNER/OPERATOR**

UST Owner/Operator: ARNOLD S. PRETZLAFF  
Owners Signature: [Signature] Telephone: (206) 364-7770  
Address: 21004 - 28<sup>th</sup> Ave. S.E.  
BOTHELL WA 98021  
City State ZIP Code

**TANK CLOSURE/CHANGE IN SERVICE PERFORMED BY**

Service Provider: Aspen Environmental, Ltd. License Number: \_\_\_\_\_  
Licensed Supervisor: Scott Worland Decommissioning License Number: W001054  
Supervisors Signature: [Signature]  
Address: P.O. Box 318  
nykilteco WA 98275  
City State ZIP Code  
Telephone: (\_\_\_\_)

**SITE CHECK/SITE ASSESSMENT CONDUCTED BY**

Name of Registered Site Assessor: Thomas J. Commeyre  
Telephone: (206) 633-3783  
Address: 4408 Densmore N.  
Seattle WA 98103  
City State ZIP Code

**APPENDIX G. LABORATORY ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY FORMS.**



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Serving the Environmental, Aerospace and Defense Industries

### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 9/12/94  
CCIL JOB #: 409011  
CCIL SAMPLE #: 1  
DATE RECEIVED: 9/6/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: GERMAN CAR REPAIR  
CLIENT SAMPLE ID: S.S. #1 9/1/94 4:30

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	21000	MG/KG	200MG/KG	9/8/94	SJB

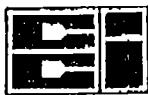
6'-9" depth  
center of  
excavation  
21,000 ppm

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C/21



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### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 9/12/94  
CCIL JOB #: 409011  
CCIL SAMPLE #: 2  
DATE RECEIVED: 9/6/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: GERMAN CAR REPAIR  
CLIENT SAMPLE ID: S.S. #2 9/1/94 4:40

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	89000	MG/KG	200MG/KG	9/8/94	SJB

89,000 ppm  
initial excavation  
of soils

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: ada



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### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 9/12/94  
CCIL JOB #: 409011  
CCIL SAMPLE #: 3  
DATE RECEIVED: 9/6/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: GERMAN CAR REPAIR  
CLIENT SAMPLE ID: S.S. #3 9/1/94 4:50

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	220000	MG/KG	200MG/KG	9/8/94	SJB

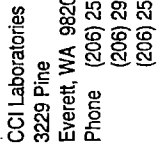
220,000 ppm  
material  
below  
piping

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

Date 9-1-77 Page Of

SAMPLE I.D.	DATE	TIME	TYPE	LAB #
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## SPECIAL INSTRUCTIONS

## POSSIBLE SAMPLE HAZARDS

**SIGNATURES (Name, Company, Date, and Time):**

1. Relinquished By: Donna M. T. [Signature] 9-6-91

Received By: Paul Boyan ECT 665 7-6-94

2. Relinquished By: \_\_\_\_\_

Received By: \_\_\_\_\_

3. Relinquished By:

Received By:

**4. Relinquished By:**

Received By:



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### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 1  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: B-S1 10/17/94 11:15

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	110	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CLEF





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### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 2  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: B-S2 10/17/94 11:20

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



Laboratories  
Serving the Environmental, Aerospace and Defense Industries

---

CERTIFICATE OF ANALYSIS

---

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 3  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: EW-S1 10/17/94 11:25

---

DATA RESULTS

---

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CLP



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Serving the Environmental, Aerospace and Defense Industries

### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 4  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: WW-S1 10/17/94 11:30

### DATA RESULTS

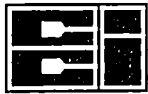
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CLW



Laboratories

Serving the Environmental, Aerospace and Defense Industries

---

### CERTIFICATE OF ANALYSIS

---

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 5  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: SW-S1 10/17/94 11:35

---

### DATA RESULTS

---

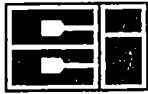
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C142



Laboratories

Serving the Environmental, Aerospace and Defense Industries

### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 6  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: NW-S1 10/17/94 11:35

### DATA RESULTS

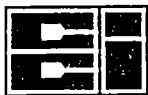
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	10/20/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C12



Laboratories

Serving the Environmental, Aerospace and Defense Industries

### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 7  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: SP-1 10/17/94 12:00

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418 1	4000	MG/KG	200MG/KG	10/23/94	SJB
PCB-1016	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB
PCB-1221	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB
PCB-1232	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB
PCB-1242	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB
PCB-1248	EPA-8080	0.1 1	MG/KG		10/27/94	SJB
PCB-1254	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB
PCB-1260	EPA-8080	ND(<.1)	MG/KG		10/27/94	SJB

1 PCB PATTERN APPEARED HIGHLY WEATHERED AND MAY BE 1242 RATHER THAN 1248

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C121



Laboratories

Serving the Environmental, Aerospace and Defense Industries

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CERTIFICATE OF ANALYSIS

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CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039

DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR

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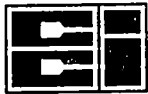
QUALITY CONTROL RESULTS

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SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	EXP'D AMT	AMT RECV	% RECV
410039-07	EPA-8080	DCB	0.20	0.15	77

APPROVED BY: CRP



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Serving the Environmental, Aerospace and Defense Industries

### CERTIFICATE OF ANALYSIS

CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 8  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: SP-2 10/17/94 12:05

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	1000	MG/KG	200MG/KG	10/23/94	SJB

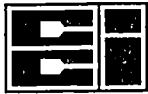
\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
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THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C. R. H.





Laboratories

Serving the Environmental, Aerospace and Defense Industries

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### CERTIFICATE OF ANALYSIS

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CLIENT: ASPEN ENVIRONMENTAL  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 11/1/94  
CCIL JOB #: 410039  
CCIL SAMPLE #: 9  
DATE RECEIVED: 10/18/94  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: ASP GERMAN CAR REPAIR  
CLIENT SAMPLE ID: SP-3 10/17/94 12:10

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### DATA RESULTS

---

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	650	MG/KG	200MG/KG	10/23/94	SJB

\* "ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 

A Chain-of Custody Form accompanying the Sampling Event of 10/17/96 was not available at the time of Report Generation. It is reportedly Archived in the records of CCI Laboratories (Everett, Washington).



June 20, 1996

Service Request No.: K9603425

Nels Cone  
Environmental Management Consultants, Inc.  
P.O. Box 95589  
Seattle, WA 98145

Re: **ASP G-Car Repair/Project #CUST-96-01**

Dear Nels:

Enclosed are the results of the sample(s) submitted to our laboratory on June 11, 1996. Preliminary results were transmitted via facsimile on June 18, 1996. For your reference, these analyses have been assigned our service request number K9603425.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 243.

Respectfully submitted,

**Columbia Analytical Services, Inc**

A handwritten signature in black ink, appearing to read "Richard Craven", is written over the printed name.

Richard Craven  
Project Chemist

RAC/td

Page 1 of 7

# COLUMBIA ANALYTICAL SERVICES, Inc.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
J	Estimated concentration. The value is less than the method reporting limit, but greater than the method detection limit.
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected at or above the MRL
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

# COLUMBIA ANALYTICAL SERVICES, Inc.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
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DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
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GC	Gas Chromatography
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RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Analytical Report**

**Client:** Environmental Management Consultants  
**Project:** ASP G-Car Repair/CUST-96-01  
**Sample Matrix:** Soil

**Service Request:** K9603425  
**Date Collected:** 6/10/96  
**Date Received:** 6/11/96  
**Date Extracted:** 6/17/96

Total Metals  
 Units: mg/Kg (ppm)  
 Dry Weight Basis

Sample Name:	<b>ASP-M1</b>	<b>Method Blank</b>
Lab Code:	K9603425-001	K9603425-MB
Date Analyzed:	6/17/96	6/17/96

Analyte	EPA	MRL		
	Method			
Arsenic	7060	1	2	ND
Barium	6010A	1	58	ND
Cadmium	6010A	1	ND	ND
Chromium	6010A	2	22	ND
Lead	6010A	20	82	ND
Mercury	7471	0.2	ND	ND
Selenium	7740	1	ND	ND
Silver	6010A	2	ND	ND

Approved By: \_\_\_\_\_

*Richard Braun*

Date: \_\_\_\_\_

*6/20/96*

3830EPA/102094

K9603425.XLS - Sample 6/19/96

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## COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Report

Client: Environmental Management Consultants  
Project: ASP G-Car Repair/CUST-96-01  
Sample Matrix: Soil

Service Request: K9603425  
Date Collected: 6/10/96  
Date Received: 6/11/96  
Date Extracted: 6/17/96  
Date Analyzed: 6/17/96

Duplicate Summary  
Total Metals  
Units: mg/Kg (ppm)  
Dry Weight Basis

Sample Name: ASP-M1  
Lab Code: K9603425-001

Analyte	EPA Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
Arsenic	7060	1	2	2	2	<1
Barium	6010A	1	58	64	61	10
Cadmium	6010A	1	ND	ND	ND	-
Chromium	6010A	2	22	24	23	9
Lead	6010A	20	82	130	106	45(X)
Mercury	7471	0.2	ND	ND	ND	-
Selenium	7740	1	ND	ND	ND	-
Silver	6010A	2	ND	ND	ND	-

X High RPD due to the non-homogeneous nature of the sample as received.

Approved By: \_\_\_\_\_

Date: 6/20/96

DUP1SEPA/102194

K9603425.XLS - DUP 6/19/96

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## COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Report


Client: Environmental Management Consultants  
Project: ASP G-Car Repair/CUST-96-01  
Sample Matrix: Soil

Service Request: K9603425  
Date Collected: 6/10/96  
Date Received: 6/11/96  
Date Extracted: 6/17/96  
Date Analyzed: 6/17/96

Matrix Spike Summary  
Total Metals  
Units: mg/Kg (ppm)  
Dry Weight Basis

Sample Name: ASP-M1  
Lab Code: K9603425-001

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS
						Percent Recovery Acceptance Limits
Arsenic	1	8	2	9	88	60-130
Barium	1	420	58	438	90	60-130
Cadmium	1	10	ND	10	100	60-130
Chromium	2	42	22	58	86	60-130
Lead	20	100	82	166	84	60-130
Mercury	0.2	0.5	ND	0.5	100	60-130
Selenium	1	2	ND	2	100	60-130
Silver	2	10	ND	9	90	60-130

Approved By: 

Date: 6/20/96

MS1S/102194

K9603425.XLS - Spike 6/19/96

6/7



**COLUMBIA ANALYTICAL SERVICES, INC.**

**Analytical Report**

**Client:** Environmental Management Consultants  
**Project:** ASP G-Car Repair/CUST-96-01  
**Sample Matrix:** Soil

**Service Request:** K9603425  
**Date Collected:** 6/10/96  
**Date Received:** 6/11/96  
**Date Extracted:** NA  
**Date Analyzed:** 6/12/96

Solids, Total  
EPA Method 160.3 Modified  
Units: Percent (%)

Sample Name	Lab Code	Result
ASP-M1	K9603425-001	96.0

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

1A/102094

03425ICP.AM1 - TSolids 6/13/96

*Handwritten:* 7/7

*Handwritten:* 6/13/96



## **APPENDIX H. SOIL TREATMENT/RECYCLING CERTIFICATE**

# Soil Recycling Certificate

UHS Technologies Inc. does hereby certify  
that 63.47 tons of petroleum - contaminated soil  
received from

ASP German Car Repair  
17704 15th Avenue NE  
Seattle, WA

Under Manifest/authorization number 03-00794  
have been properly recycled to approved regulatory standards  
at our Soil Recycling Facility in Tacoma, WA



Dated this 17th day of July, 1996  
Sworn and Attested by:  
UHS Technologies Inc.

By: \_\_\_\_\_

*Jerry M. Holt*

