P.O. BOX 1644, ZILLAH, WA 98953 PHONE (509) 829-6400

000025

May 30, 1995

#### Michael Irrigation & Excavation

P.O. Box 294 Cashmere, WA 98815

Attention:

Mr. John Michael

SUBJECT:

CLOSURE SITE ASSESSMENT AND INDEPENDENT REMEDIAL ACTION

REPORT FOR THE CALLAN COUNTY SHERIFF'S DEPTONICE DISTRICTANT

#1 FACILITIES, WENATCHEE, WA.

HELIPORT

Dear Mr. Michael,

Enclosed, please find one (1) copies of the report for the above referenced site. The original and one copy has been transmitted to your client. Based on the data and findings reported herein, Sage Earth Sciences, Inc. finds that the Sheriff's Dept. UST location has been adequately remediated. However, diesel impacted soil remains at the Fire District #1 UST system location at concentrations exceeding Method A Soil Cleanup Levels of WAC 173-340-740. Impacted soil stockpiles generated during remedial activities has been disposed of at the Greater Wenatchee Regional Landfill and Recycle Center.

The Washington State Department of Ecology (WSDOE) requires that you retain this report for a minimum of ten (10) years. Sage recommends that you retain it indefinitely. Sage has completed copies of the WSDOE UST Site Check/ Site Assessment Checklist and they are attached as Appendix G.

Sage Earth Sciences, Inc. appreciates the opportunity to provide you with environmental services for your remediation project. If you have any questions, or comments regarding the content of this document, please call us at (509) 829-6400.

Respectfully,

SAGE EARTH SCIENCES, INC.

David L. Green Principal Geologist

cc: fil

Chelan County Sheriff's Dept/Fire District #1 (original & 1 copy), Wenatchee, WA Washington State Department of Ecology Headquarters, Olympia, WA

WSDOE Toxics Cleanup Program, Central Regional Office, Yakima, WA

Project Number: MIE-0295

# Closure Site Assessment & Independent Remedial Action Report

For 2 UST's located at the Chelan County Fire District #1 Facility & 1 UST located at the Chelan County Sheriff's Department Facility Located at 206 Easy Street,

Wenatchee, Washington

## Prepared For:

Michael Irrigation & Excavation P.O. Box 294 Cashmere, WA 98815

Prepared By:



P.O. BOX 1644, ZILLAH, WA 98953 PHONE (509) 829-6400

#### **Executive Summary**

On January 20 - 21, 1995, Michael Irrigation and Excavation (MIE) decommissioned and removed one (1) UST at the Chelan County Sheriff's Department facility and two (2) Underground Storage Tanks (UST's) at the Chelan County Fire District #1 facility. Both facilities are located at 206 Easy Street, Wenatchee, WA. The WSDOE Site Identification number for the Sheriff's Dept. is 097305 while the WSDOE Site Identification # for the Fire District is 002025. The UST at the Sheriff's Dept. facility consisted of one (1) 1,000 gallon aviation gasoline tank used to refuel a helicopter. The UST's at the Fire District facility consisted of one (1) 500 gallon diesel tank and one (1) 1,000 gallon unleaded gasoline tank. The diesel tank was used to fuel a generator while the gasoline tank was used to refuel vehicles and equipment.

Sage Earth Sciences, Inc. provided field screening and soil sampling services upon removal of the UST's A visual inspection of the tanks found them to be in fair condition and no holes were observed.

Field screening indicated the presence of petroleum hydrocarbons in soil beneath the original position of the fuel dispenser at the Fire district UST system location. Soil staining indicated that a leak occurred in the generator fuel line and/or small spills occurred at the dispenser location. Based upon field screening results, MIE excavated a total of approximately 60 cubic yards of petroleum impacted soil from this UST system location. Complete removal of petroleum impacted soil was not accomplished as additional soil removal would endanger the existing fire tower. Analysis of soil samples collected from the final remedial excavation found diesel at concentrations up to 3,500 parts per million (ppm). Comparison of the analytical results with the WSDOE Method A Soil Cleanup Level for diesel (200 ppm) indicates that additional remedial action is required at the Fire District UST system location.

Field screening also indicated the presence of petroleum hydrocarbons in soil beneath the original position of the Sheriff's Dept. fuel dispenser. This release appears to be the result of small overfills at the dispenser location. Based upon field screening results, MIE excavated a total of approximately 40 cubic yards of petroleum impacted soil from this fuel dispenser location. Analysis of soil samples collected from the final remedial excavation found aged gasoline range hydrocarbons at concentrations ranging from trace levels up to 65.4 ppm. Comparison of the analytical results with the WSDOE Method A Soil Cleanup Level for gasoline (100 ppm) indicates that no additional remedial action is required at the Sheriff's Dept. UST system location.

After completion of impacted soil removal activities, each remedial excavation was backfilled. Upon receiving acceptance, MIE transported the resulting impacted soil stockpiles to Waste Management of Greater Wenatchee for disposal.

Sage recommends no additional remedial action associated with the Sheriff's Department UST site. However, Sage recommends determining the vertical extent of diesel impacted soil at the Fire District UST location through soil boring(s).

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#### 1.0 Introduction

#### 1.1 Purpose

The purpose of this report is to describe findings and actions taken associated with the closure site assessment and independent remedial actions associated with the removal of two (2) Underground Storage Tanks (UST's) at the Chelan County Fire District #1 facility and one (1) UST at the Chelan County Sheriffs Department facility, both located in Wenatchee, WA.

#### 1.2 Scope of Work

Michael Irrigation & Excavation, (MIE) Cashmere, WA provided decommissioning and tank removal services. Sage provided closure site assessment and limited remedial services upon removal of the USTs as required by the Washington State Department of Ecology (WSDOE). Sage provided field screening services and collected representative soil samples in accordance with the WSDOE <u>Guidance for Site Checks and Site Assessments for Underground Storage Tanks</u> (February, 1991; 90-52, Revised October, 1992). The soil samples were submitted to Materials Testing and Consulting, Inc. (MTC), Burlington, WA for independent laboratory analysis.

#### 2.0 Background Information

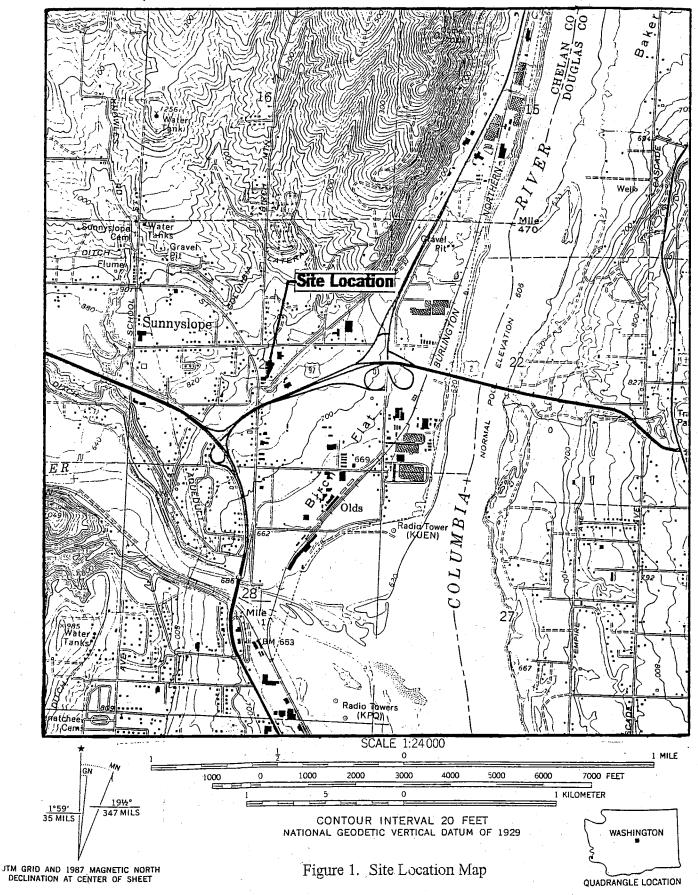
#### 2.1 Site Location

Both facilities are located at 206 Easy Street, Wenatchee, WA They are situated within the NW 1/4, of the SE 1/4, Section 21, Township 23 North, Range 20 East, Willamette Meridian. The site latitude is 47° 28′ 15″ and the longitude is 120° 20′ 02″. The location of the site is shown by Figure 1.

#### 2.2 Site Description

The facility consists of a county operated fire station, fire district storage building, sheriffs helicopter hanger and a county yard as shown by Figure 2. A fire tower is located northwest of the helicopter hanger. Easy Street lies immediately west of the site. The area west of Easy Street is residential. The Chelan County Yard is located north of the site. Ohme Gardens Road lies immediately east of the site. The Wenatchee Parks building is located south of Ohme Gardens Road.

The site topography slopes moderately southeast toward the Columbia River. The Columbia River lies approximately 4,000 feet southeast of the site.



Closure Site Assessment & Independent Remedial Action Report, May, 1995

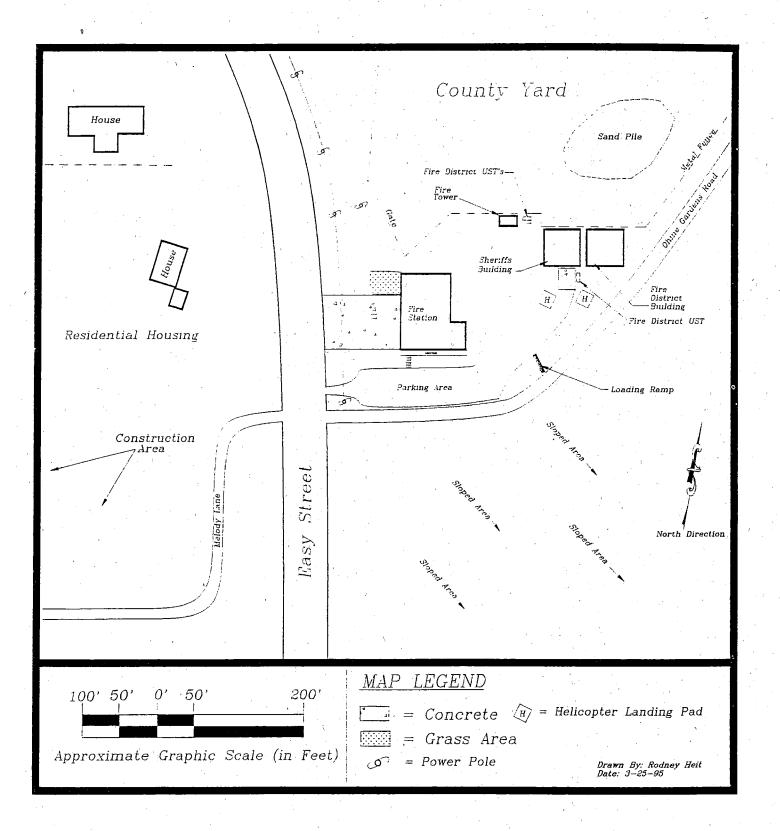


Figure 2. Site Vicinity Map

#### 2.3 UST System Information

#### 2.3.1 Sheriffs Department UST

One (1) UST was utilized by the Chelan County Sheriffs Department to support helicopter refueling. The date of UST installation is unknown. The WSDOE Site Identification number for this tank is 097305. The UST consisted of one (1) 1,000 gallon aviation gasoline tank (Tank #1).

This UST was located approximately ten (10) feet south of the southeast corner of the helicopter hanger. A fuel line and vent line led from the UST to a fuel dispenser located at the southeast corner of the hanger. A diagram of this removed UST system is shown by Figure 3.

#### 2.3.2 Fire District UST's

Two (2) UST's were utilized by the Chelan County Fire District #1 to support company vehicles and equipment. The date of UST installations is unknown. The WSDOE Site Identification number for these tanks is 002025. The UST's consisted of:

- one (1) 500 gallon diesel tank (Tank #1) and
- one (1) 1,000 gallon unleaded gasoline tank (Tank #2).

These UST's were located approximately ten (10) feet east of the fire tower. Fuel lines led from each tank to a fuel dispenser located at the southeast corner of the tower. An additional fuel line led from the diesel tank to a generator located within the tower. Vent lines led from each tank to the northeast corner of the fire tower. A diagram of the removed UST systems is presented as Figure 3.

### 2.4 Soils Description

Field observations found the basic soil type to consist of:

- well graded, crossbedded, medium to coarse sand. This soil type extends from beneath the existing asphalt (3 inches in thickness) to a depth of approximately three (3) feet Below Ground Surface (BGS). This soil is classified as "SW" according to the *Unified Soil Classification System* (USCS).
- Rounded pebbles of various composition up to six (6) inches in diameter, within a well graded sand matrix. This soil type extends from three (3) feet BGS to a depth of at least fifteen (15) feet BGS. The soil is classified as "GP" according to the USCS. A lens of well graded, rounded pebbles averaging one (1) inch in diameter was included within this soil unit at a depth between ten (10)

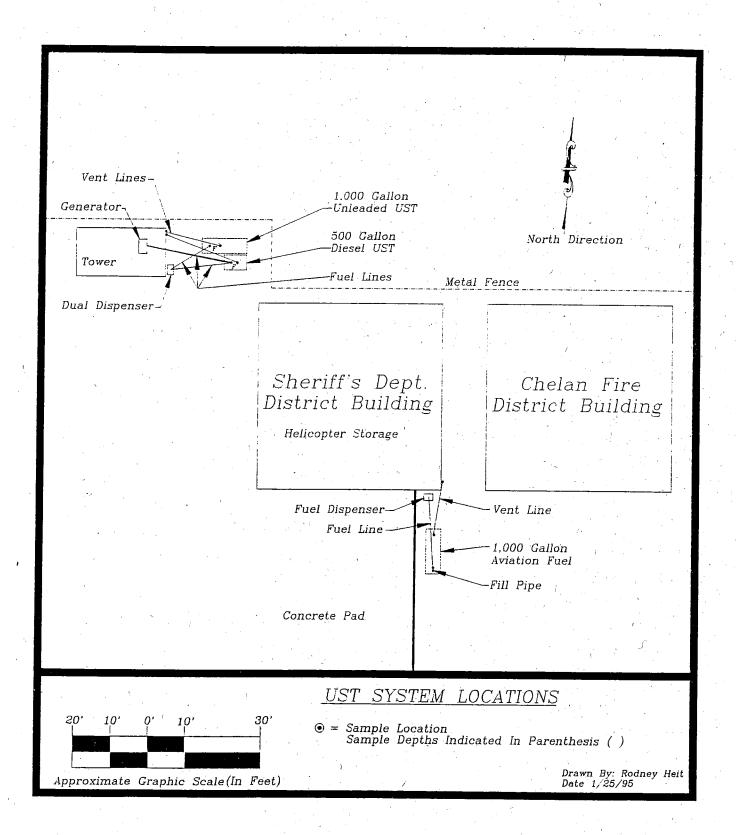


Figure 3. UST System Diagram

to ten and one-half (10.5) feet BGS. This included lens is classified as "GW" according to the USCS.

The soil descriptions are documented on the Soil Excavation Profile (Appendix

#### 3.0 Closure Site Assessment

A).

MIE decommissioned and removed the three tanks on January 20 - 21, 1995. Rodney Heit, an environmental assessor registered with the WSDOE Underground Storage Tank Section, provided closure site assessment services for the Fire District UST's on January 20, 1995. Sage performed closure site assessment services for the Sheriffs Dept. UST on January 21, 1995. A discussion of each is presented below.

#### 3.1 Fire District UST's

Sage performed a visual inspection of the UST's upon removal. Inspection of the tanks found them to be in good condition with only slight corrosion observed. No holes were observed in the tanks. However, petroleum stained soils indicate that the generator fuel line leaked and/or small spills occurred at the fuel dispenser location.

Sage collected soil samples for field screening and laboratory analysis from within the initial tank excavation and the fuel dispenser location (MIE-0295-S1 through MIE-0295-S8). Soil samples were collected from the excavation sidewalls, below each of the UST's and beneath the dispenser island location. These soil sampling locations are shown by Figure 4. Soil sampling methodologies are attached as Appendix B. Soil sample descriptions and field screening results are provided on the Daily Field Sampling Log (Appendix C). Field screening was accomplished using a Flame Ionization Detector (FID) and Thin Layer Chromatography (TLC) using the methods described in Appendix D. Field screening indicated the presence of petroleum hydrocarbons in soil samples collected from beneath the fuel line and fuel dispenser.

To determine if remedial action is required, Sage compared the analytical results (Appendix E) with the "Method A Soil Cleanup Levels" (Cleanup Level) of WAC 173-340-740 (Appendix F). The Cleanup Level is 200 parts per million (ppm) for diesel, 20 ppm for xylenes and 100 parts per million for gasoline.

MTC analysis of soil samples collected from within the initial UST excavation found traces of diesel range hydrocarbons in one (1) sample (MIE-0295-S5). No petroleum hydrocarbons were detected in the remaining UST excavation samples. However, a soil sample (MIE-0295-S8) collected from the fuel dispenser location found:

- diesel at a concentration of 1,500 ppm and
- xylenes at a concentration of 1.34 ppm.

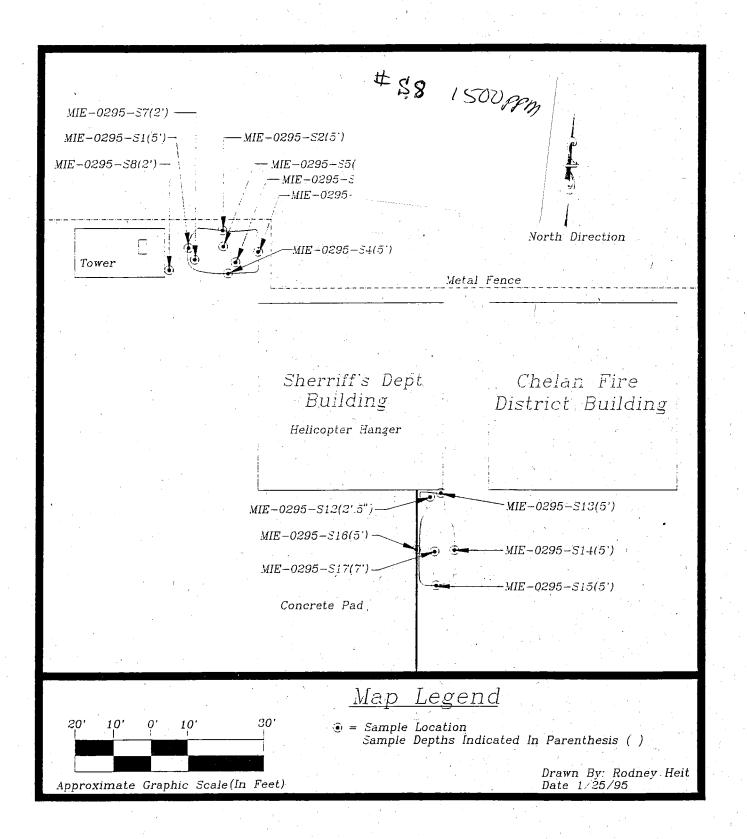


Figure 4. Closure Site Assessment Sampling Locations

Comparison of the analytical results with the Cleanup Levels indicates that remedial action was necessary beneath the fuel dispenser island to reduce diesel concentrations to acceptable levels. Analyses for total lead found no concentrations in excess of the Cleanup Levels.

#### 3.2 Sheriffs Department UST

Sage performed a visual inspection of the UST upon removal. Inspection of the tank found it to be in good condition with only slight corrosion observed. No holes were observed in the tank. However, petroleum stained soils indicate that the fuel line leaked and/or small spills occurred at the fuel dispenser location.

Sage collected soil samples for field screening and laboratory analysis from within the initial tank excavation and the fuel dispenser location (MIE-0295-S12 through MIE-0295-S17). Soil samples were collected from the excavation sidewalls, below the UST and beneath the dispenser island location. These soil sampling locations are shown by Figure 4.

Field screening was accomplished using a Flame Ionization Detector (FID). Soil sample descriptions and field screening results are provided on the <u>Daily Field Sampling Log</u> (Appendix C). Field screening indicated the presence of petroleum hydrocarbons in soil samples collected from beneath the fuel line and fuel dispenser.

MTC analysis of soil samples found no petroleum hydrocarbons in the UST excavation samples. However, a soil sample (MIE-0295-S12) collected from the fuel dispenser location found:

- diesel range hydrocarbons at a concentration of 46.2 ppm and
- aged gasoline range hydrocarbons at a concentration of 328 ppm.

Comparison of the analytical results with the Cleanup Levels indicates that remedial action was necessary beneath the fuel dispenser island to reduce aged gasoline concentrations to acceptable levels. Analyses for total lead found no concentrations in excess of the Cleanup Levels.

#### 4.0 Limited Remedial Actions

Upon completion of closure site assessment activities, Sage completed a copy of the UST Site Check/Site Assessment Checklist and it is attached as Appendix G. A description of remedial activities for each site follows.

#### 4.1 Fire District Remediation

Based upon field screening results, MIE excavated an additional 60 cubic yards of apparently impacted soil from the area of the fuel dispenser. Complete excavation of

impacted soil was not accomplished since additional soil removal would endanger the fire tower structure.

Sage collected six (6) additional soil samples (MIE-0295-S21 through MIE-0295-S26) to characterize the final remedial excavation. These soil sampling locations are shown by Figure 5.

MTC analysis of the soil samples found diesel at concentrations ranging from trace levels up to 3,500 ppm. Analysis of a sample (MIE-0295-S22) collected from the floor of the final remedial excavation found diesel at a concentration of 1,750 ppm. Comparison of the analytical results with the Cleanup Levels indicates that additional remediation is required to reduce diesel concentrations to acceptable levels.

Upon completion of remedial activities, MIE filled the remedial excavation with imported soil.

#### 4.2 Sheriff's Department Remediation

Based upon field screening results, MIE excavated a total of approximately 40 cubic yards of apparently impacted soil from the area of the fuel dispenser at the Sheriff's Department site. Sage collected ten (10) additional soil samples (MIE-0295-S29 through MIE-0295-S38) to characterize the final remedial excavation. These soil sampling locations are shown by Figure 5.

MTC analysis of the soil samples found diesel at trace levels in two (2) of the soil samples (MIE-0295-S29 & S38). In addition, the analysis found aged gasoline range hydrocarbons in sample MIE-0295-S38 at a concentration of 65.4 ppm. Comparison of the analytical results with the Cleanup Levels indicates that no additional remediation is required at this location.

Upon completion of remedial activities, MIE filled the remedial excavation with imported soil.

#### 5.0 Impacted Soil Stockpiles

Upon completion of limited remedial activities, MIE established two temporary impacted soil stockpiles at the site. The temporary location of these stockpiles are shown by Figure 6.

#### 5.1 Fire Department Stockpile

Upon completion of limited impacted soil removal at the location of the Fire Department UST's, MIE established a temporary impacted soil stockpile south of the remedial excavation. This stockpile was composed of approximately 60 cubic yards of petroleum impacted soil. Sage collected three (3) soil samples (MIE-0295-SP9 through MIE-0295-SP11) from this stockpile for independent laboratory analysis.

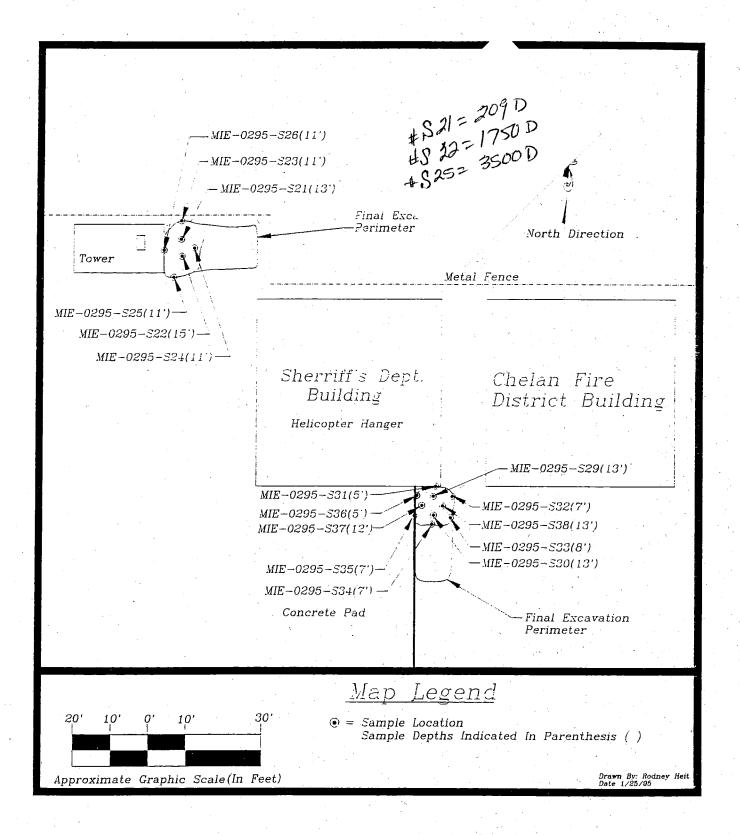


Figure 5. Final Remedial Excavation Sampling Locations

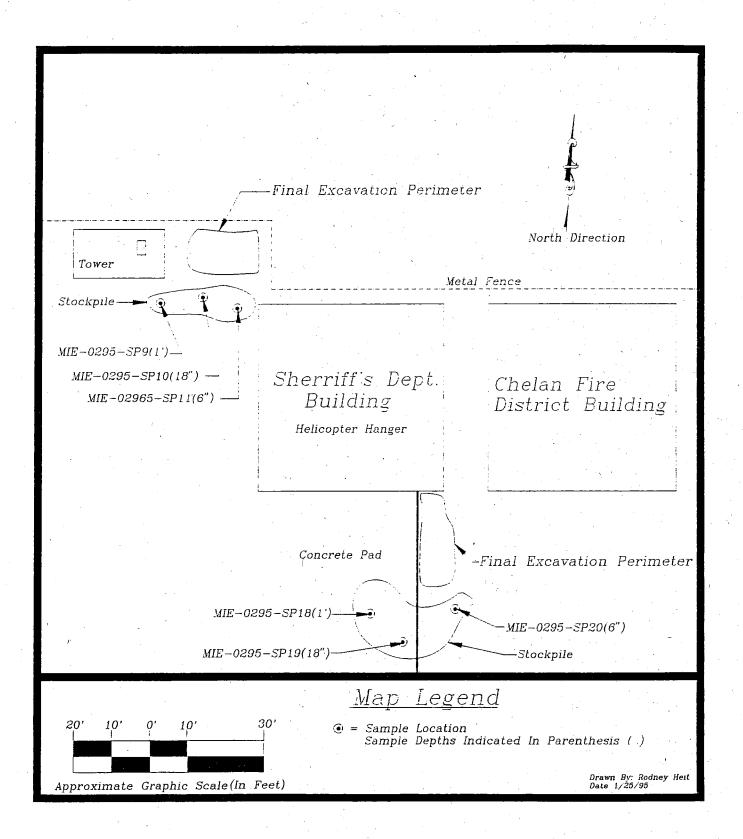


Figure 6. Impacted Soil Stockpile Sampling Locations

MTC analysis of these samples found:

- diesel at concentrations ranging from trace levels up to 5,300 ppm,
- no detectable total lead,
- flashpoint is greater than 200 degrees Fahrenheit,
- no detectable arochlors (PCB's) and
- no free liquids.

Comparison of the analytical results (Appendix E) with the WSDOE "End Use Criteria for Petroleum Contaminated Soils" (Appendix H) indicates that the soil is designated as "Class 4 Soil". MIE transported this soil stockpile to Waste Management of Greater Wenatchee for disposal. The *Generator's Waste Profile Sheet* and *Bill of Lading* is attached as Appendix I.

#### 5.2 Sheriff's Department Stockpile

Upon completion of limited impacted soil removal at the location of the Sheriff's Department UST, MIE established a temporary impacted soil stockpile south of the remedial excavation. This stockpile was composed of approximately 40 cubic yards of petroleum impacted soil. Sage collected three (3) soil samples (MIE-0295-SP18 through MIE-0295-SP20) from this stockpile for independent laboratory analysis.

MTC analysis of these samples found:

- Diesel at trace levels in one sample (MIE-0295-SP18),
- Aged gasoline range hydrocarbons at concentrations ranging from 92 ppm up to 398 ppm,
- no detectable benzene, toluene, ethylbenzene or xylenes,
- no detectable total lead,
- flashpoint is greater than 200 degrees Fahrenheit,
- no detectable arochlors (PCB's) and
- no free liquids.

Comparison of the analytical results (Appendix F) with the WSDOE "End Use Criteria for Petroleum Contaminated Soils" (Appendix H) indicates that the soil is designated as "Class 4 Soil". MIE transported this soil stockpile to Waste Management of Greater Wenatchee for disposal. The *Generator's Waste Profile Sheet* and *Bill of Lading* is attached as Appendix I.

#### 6.0 Recommendations

#### 6.1 Fire Department Site

Since diesel concentrations remain in excess of the Cleanup Levels at the floor of the final remedial excavation, the vertical extent of diesel migration must be determined.

To determine the vertical extent of diesel impacted soil, Sage recommends establishing one (1) soil boring immediately adjacent to the southeast corner of the fire tower.

Since the vertical extent of diesel impacted soil is unknown, the total drilling depth must be determined during field drilling activities. Field screening would assist in determining when the base of the diesel impacted soil is penetrated. Soil samples should be collected at five (5) foot intervals for independent laboratory analyses.

If the vertical extent can not be determined through the soil boring, or petroleum impacted soil is found to be in contact with groundwater, additional exploration must be conducted to test for the presence of groundwater contamination in accordance with WAC 173-340-450. This would include installation of at least three (3) groundwater monitoring wells and collection of groundwater samples for laboratory analysis.

#### 6.2 Sheriff's Department Site

Based upon the analytical results, petroleum impacted soil appears to have been adequately removed from the Sheriff's Department site. Sage recommends no further remedial action at this location.

#### 7.0 Limitations

In performance of this project, Sage Earth Sciences has conducted its activities in accordance with current regulatory guidelines. The conclusions and recommendations are based upon our field observations, field screening and independent laboratory analyses. Since the investigation is limited to the closure site assessment and limited soil remediation project, this document does not imply that the property is free of other environmental constraints.

# Appendix A

# SOIL EXCAVATION PROFILE

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Field Crew RODNEY HEIT Earth Sciences, Inc. 602 Cherryhill Lane P.O. Box 1644 Zillah. WA 98953 Phone (509) 823–6400 Project Name CheLAN COUNTY FIRE DISTRICT # Project # MIE-0295 Address 206 EASY STREET WENATCHEE, WA. Date 1-21-95 Location N.W 1/40.E. 1/4 Sec. 21 T. 23 N. R. 20 E., W.M. Elevation 280 AppenDatum Mal Finish Depth 15 Pit Dimensions Two Excavations

SAME BOIL TYPES OBSERVED \_\_\_\_ Pit Orientation \_ -Sand 1.0-.50 mm ..50-.25 mm .25-.12 mm .12-.06 mm .06-.03 mm assification Medium Fine Very fine Coarse  $1-2.\phi$   $2-3.\phi$   $3-4.\phi$   $4-5.\phi$ Medium Coarse Unified Additional Detrital Rock Classifications on Reverse Graphic Log Description of Lithologies ASPHALTIC PAVEMENT TO A DEPTH OF 3(+ OR -) N 0 medium to Coarse Sands SW WITH EVIDENCE OF CROSSBEDDING Е N Medium to Coorse Sands C Rounded Granels of Warron 0 to pepples up to U Ν T E GP R E

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SAGE Representative

GW

Date

# Appendix B

#### Soil Sampling Methodology

Soil sampling locations were chosen at locations considered representative of soil conditions. To collect representative soil samples. Sage Earth Sciences uses the methodology outlined below.

- 1. Select a new sample jar whose volume is adequate for the appropriate analysis.
- 2. Remove a minimum of six (6) inches of soil to minimize the loss of volatile compounds.
- 3. Immediately transfer to soil to the sample container, using the container itself to collect the sample. Using new nitrile gloves, pack the soil tightly into the container to prevent the loss of volatile compounds. Ensure that the container is filled completely to exclude any airspace in the sample.
- 4. Label the jar with a unique identification number, the analytical procedure to be used, the time and date of sample collection and the person who collected the sample.
- 5. Enter the sample on the Chain-of-Custody form and the Daily Field Sampling Log.
- 6. Place the sample in wet ice to cool the samples to approximately four (4) degrees Celsius.
- 7. Place the samples in a shipping cooler packed with absorbent material and blue ice for shipment.
- 8. Secure the Chain-of-Custody form to the underside of the cooler lid in a sealable plastic bag with tape.
- 9. Upon completion of sampling activities, secure the lid of the cooler with strapping tape and affix custody seals across the lid/cooler interface. Place appropriate shipping waybills atop the cooler.
- 10. Ship the samples to the laboratory via commercial courier.

# Appendix C

# Daily Field Sampling Log

Project # <u>M/E - 0295</u>

Date <u>/ - 20 - 95</u>

Sampler <u>Roducy Herr</u>

Sheet <u>/</u> of <u>/</u>

| Sample #      | Location   | Matrix   | Staining                                | Odors            | Depth       | TOV                                   | TLC         |
|---------------|--|----------|---|------------------|-------------|---------------------------------------|-------------|
| MIE - 0295-51 | WEST ENDWALL OF EXCAMANDED HI NORTH PROPERTY                                     | SOIL     | HOME                                    | Slight<br>DIESEC | 5'          | N.D.                                  | N.O.        |
| MIE-0295-52   | NORTH SIDE WALL NORTH EXCAY.   | SOIL     | NOHE                                    | NOHE             | 5'          | N.O.                                  | N.D         |
| MIE-0295-53   | EAST RENDWALL/NORTH EXC.   | Soic     | HONE                                    | None             | 51          | ND.                                   | N.D         |
| MIE-0295-54   | SOUTH SIDEWALL NORTH EXC.  | Soic     | HONE                                    | NONE             | 5           | ND.                                   | 50          |
| MIE-0295-55   | BENEATH 1,000 gam. UNLEAD<br>TANK I NORTH EXCAVATION                             | 50,4     | HONE                                    | NONE             | 8           | ND.                                   | NA          |
| MIE-0295-56   | BENEATH 500 gam. DIESEL<br>TANK I NORTH EXCHANTION                               | 50,2     | NOHE                                    | NOHE             | 8           | N.D.                                  | N.D.        |
| MIE-0295-57   | PRODUCT LINE SAMPLE (PIPING)<br>NORTH EXCAUTION (TWO TANKS)                      | 50,6     | Slight                                  | DIESEL           | 2           | slowres.<br>150 units                 | ¥1500       |
| MIE-0295-58   | BEAUGATH DOUD'S DISPONGER NOOTHERY TWO TANKS. SOIL REMOVED DURING TANK EXCAVANIL | Soil     | YES                                     | PIESEL           | 2'          | N.O.                                  | 5000        |
| MIE-0295-5P9  | SOIL REMOVED DURING TANK EXCAVATION NORTHERN TWO THUKS STOCKPILE                 | 501      | YES                                     | DIESEL           | 120         | NIA                                   | NIA         |
|               | STOCKPILED SOIL  | Soil     | YES                                     | DIESEL           | 18"         | NIA                                   | N/A         |
| MIE-0295-SP11 | STOCKPILED SOIL  | SorL     | YES                                     | DIESEL           | 6"          | MIA                                   | NIA         |
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Ambient Vapors TLC Standards 4 Units
100 ppm Piesec
200 ppm DIESEL
1000 ppm DIESEL

S = Soil Sample

GW = Groundwater Sample

SW = Surface Water Sample

D = Duplicate Sample (10 % of samples/matrix)

TB = Travel Blank

ND = NOT DETECTED

# Daily Field Sampling Log

Project # MIE -0295 Sampler Roday Heit Sheet / of \_

| Sample #        | Location                                       | Matrix | Staining | Odors  | Depth | TOV    | TLC               |
|-----------------|--|--------|----------|--------|-------|--------|-------------------|
| MIE-0295-SIZ    | BELOW AV-GAS DISPENSER                         | SOIL   | NONE     | SWEET  |       | 75.000 | NO T<br>INDICATED |
| MIE-0295-513    | NORTH SIDEWALL /PIPING INTX.                   | SOIL   | MON      | GAS    | 5'    | 75000  | NIA               |
| MIE-0295-514    | EAST WALL AV- GAS EXC.                         | 501L   | NONE     | None   | 5     | N.D.   | NIA               |
| MIE-0295-315    | South WALL AV- GAS EXC.                        | 80,2   | Hone     | NONE   | 5'    | N.O.   |                   |
| MIE-0295-516    | West WALL AV- GAS Exc.                         | 5014   | NONE     | HONE   | 5'    | N.D.   |                   |
| MIE-0295-517    | FLOOR AV- GAS EXC. 1.000 TANK                  | 50,0   | Hone     | NONE   | 7'    | N.O.   |                   |
| MIE-0295-5P18   | STOCKPILED FOIL                                | 50,6   | NONE     | SIGAT  | //    | 75000  |                   |
| MIE-0295-SP19   | STOCKPILED SOIL                                | 5012   | None     | YE3    |       | 35000  |                   |
| MIE-0295-SP20   | STOCKPILED SOIL (Duplicate Span)               | Soir   | HONE     | YES    | 6"    | 75000  |                   |
| MIE-0295-521    | BEANEATH GENERATOR TUBING WAST WALL NORTH EXC. | 5012   | None     | DIESEL | 13'   | 200    | 200               |
| MIE-0295-522    | Below Generator Piping                         | SOIL   | None     | DIESEL | 15'   | NIA    | 250               |
| MIE-0295-523    | NORTH SIDE WIALL                               | Son    | MONE     | None   | 11/   | MIA    | ND                |
| MIE-0295-524    | EAST SIDE WALL                                 | Soil   | MOHE     | NOAL   | 11'   | NIA    | ND                |
| MIE-0295-525    | SOUTH SIDE WALL                                | Som    | HOHE     | HORE   | 11'   | NIA    | ND                |
| MIE-0295-526    | WEST SIDE WALL                                 | SOIL   | HONE     | Slight | 11'   | NIA    | ND                |
| MIE-0295-927    | BROKEN IN TRANSPORT                            | N/A    | NA       | NA     | NIA   | NIA    | NIA               |
| MIE-0295-528    | BROKEN INTRANSPORT                             | MA     | MIM      | NIX    | NIA   | MA     | NIA               |
| MIE-0295-529    | AV-gas Floor OF EXC (CHAN)                     | 50,-   | NONE     | Sweet  | 13'   | 4.000  | 50PPA             |
| MIE-0295-530    | V  | 50,0   | HOME     | SIGHT  | 13'   | 1000   | N/A               |
| MIE-0295-531    | NORTH WALL                                     | Soil   | NOME     | YES    | 51    | 200    | 1                 |
| MIE-0295-532    |  | 5012   | NOME     | Slight | 7     | 150    |                   |
| MIE -0295 - 533 |  | 5014   | HOHE     | NOAL   | 8'    | N.D    |                   |
| MIE-0295-534    |  | 50 r   | NONE     | None   | 10'   | N.D    |                   |
|                 | SOUTH WEST WALL                                | 50.4   | HOME     | None   | 7'    | N.D    | N.D.              |
| MIE-0295-536    | HORTH WEST WALL                                | SOIL   | KONE     | Slight | 5'    | 50     | N.D               |
| MIE-0295-537    | Floor AV- gAS DISPENSER                        | 50,4   | MONE     | SLIGHT | 12'   | \$10W  | 30 pm             |
| MIE-0295-538    |  | 5014   | MONE     | SIIGHT | 13'   | 550    | 5077m             |
|                 | DISTILLED WATER TRAVELB.                       | 4,0    | U/A      | H/A    | N/A   | NA     | N/A               |

Ambient Vapors TLC Standards

\_ Units 100

S = Soil Sample
GW = Groundwater Sample
SW = Surface Water Sample
D = Duplicate Sample (10 % of samples/matrix)
TB = Travel Blank

# Appendix D

#### Field Screening with the Flame Ionization Detector

For semi-quantitative analysis of organic vapors, such as those found in gasoline, Sage uses a Heath Porta-FID Organic Vapor Detector. The headspace method is used to detect organic vapors emitted by soils contaminated by volatile petroleum products. The field screening methodology, using the headspace method, is described as follows:

- 1. Place a discrete soil sample into a clean one quart mason jar, filling the jar approximately 1/3 full.
- 2. Immediately place aluminum foil over the top of the jar and secure it with a ring to prevent loss of volatile compounds.
- 3. Place the sample in boiling water for ten (10) minutes. This causes the volatile compounds to be released from soil particles and collect in the space above the soil.
- 4. Remove the sample from the boiling water and insert the instrument probe through the aluminum foil.
- 5. Record the instrument response on the Daily Field Sampling Log.

### Field Screening with Thin Layer Chromatography

For qualitative and semi-quantitative analysis of semi-volatile and non-volatile compounds such as those found in medium and high boiling compounds (e.g. diesel, waste oil, grease), Sage uses Thin Layer Chromatography (TLC). The analysis allows comparison of samples collected in the field, to standards of known composition and concentration. The analysis methodology is described below.

- 1. Place approximately 5 grams of a discrete soil sample into a clean 40 ml. vial.
- 2. Add 5 ml. of nanograde hexane (a solvent) to the sample.
- 3. Place the lid on the vial and agitate the sample to mix the solvent with the soil.
- 4. Using a graduated syringe, remove 20 ml. of the extract and elute the extract onto the TLC slide.
- 5. Decontaminate the syringe and elute appropriate Quality Assurance samples and standards onto the plate, decontaminating the syringe after each use.
- 6. Inspect the elute, under short-wave & long-wave ultraviolet light, for compounds. If no compounds are observed, the compounds are either not present or are at non-detectable concentrations.
- 7. If compounds are observed, place the base of the slide into hexane to initiate the chromatographic process. Stop the process before the solvent front encounters the top edge of the slide.
- 8. Inspect the slide under short-wave and long-wave ultraviolet light and compare the sample to known standards (diesel, waste oil, grease).
- 9. Record the type of product observed and approximate concentration on the Daily Field Sampling Log.

# Appendix E

Materials Testing & Consulting, Inc

WSDOE Laboratory #C057

WSDOH Laboratory #046

1151 Knudson Rd Burlington, WA 98233

(206)757-1400 - FAX (206)757-1402

84

Client: Sage Earth Sciences P.O. Box 1644 Zillah, WA 98953

Attn: Mr Dave Green

Report Date: 2/8/95

Reference: 95-0121

Date Analyzed: 1/24/95

Project: Chelan Fire Dist #1

Date Sampled: 1/23/95

Data Report

Page: 1 of 3

|                | Sample                         | ppm        |            | pp:        |            |            | Surrogate    |
|----------------|--------------------------------|------------|------------|------------|------------|------------|--------------|
| Lab Number     | Description                    | TPH        | Benzene    | Toluene    | Ebenzene   | Xylenes    | % Recovery   |
| 84-95-00261.0S | MIE-0295-S1/S2                 | nd         | nd         | nd         | nd         | nd         | 94           |
| 84-95-00262.08 | MIE-0295-S3/S4                 | nd         | nd         | nd         | nd         | nd         | 94           |
| 84-95-00263.08 | MIE-0295-S5                    | T-D        | nd         | nd         | nd .       | nd         | 94           |
| 84-95-00263.08 | Lab Dup MIE-0295-S5            | T-D        | nd         | nd         | nd         | nd         | 93           |
| 84-95-00264.0S | MIE-0295-S6                    | nd         | nḍ         | nd         | nd .       | nd         | 93           |
| 84-95-00265.08 | MIE-0295-S7                    | nd         | nd         | nd         | nd         | nd         | 94           |
| 84-95-00266.0S | MIE-0295-S8                    | 1500-D     | nd         | nd .       | nd         | 1340       | 94           |
| 84-95-00267.0S | MIE-0295-SP10                  | 37-D       | nd         | nd         | nd         | nd         | 93           |
| 84-95-00268.0S | MIE-0295-SP11                  | T-D        | nd         | nd         | nd         | nd         | 94           |
| 84-95-00269.0S | MIE-0295-S12                   | 46.2-D     | nd         | nd         | nd         | nd .       | 94           |
| 84-95-00269.0S |                                | 328-AG     |            |            | 1 1        | ,          |              |
| 84-95-00270.0S | MIE-0295-S13/S16               | nd         | nd         | nd         | nd         | nd         | 94           |
| 84-95-00271.0S | MIE-0295-S14/S15               | nd         | nd         | nd         | nd         | nd ,       | 94           |
| 84-95-00272.0S | MIE-0295-S17                   | nd         | nd         | nd         | nd         | nd         | 94           |
| 84-95-00273.0S | MIE-0295-SP18                  | T-D        | nd         | nd         | nd         | nd         | 93           |
| 84-95-00273.0S |                                | 125-AG     |            |            | ' F .      | · i        |              |
| 84-95-00274.0S | MIE-0295-SP19                  | 398-AG     | nd         | nd         | nd         | nd         | 114          |
|                |                                |            |            |            |            |            |              |
|                |                                |            |            |            |            | ,          |              |
|                | Methods:                       |            |            |            |            |            | Method       |
|                | WSDOE: WTPH-G/WTPH-D           |            |            |            |            |            | Acceptance   |
|                | G- Gasoline A-Aged D-Diesel    | Soil/Water | Soil/Water | Soil/Water | Soil/Water | Soil/Water | Limits       |
|                | Method Reporting Limit (MRL)** | 10.0/0.10  | 100/1.0    | 100/1.0    | 100/1.0    | 100/1.0    | Soil: 50-150 |
|                | Maximum Contamination Levels   | 100/1      | 500/5      | 40000/40   | 20000/30   | 20000/20   | H20: 50-150  |

Comments: \*- indicates heavier hydrocarbons
\*\* - A value of "<n" indicates elevated detection limits due to dilution or chromatographic interference

MS - Matrix Spike at 200 ppm Gasoline\Diesel

T-D: Trace levels Diesel detected <10ppm.

QC Review

Materials Testing & Consulting, Inc

WSDOE Laboratory #C057 WSDOH Laboratory #046

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(206)757-1400 - FAX (206)757-1402

84

Client: Sage Earth Sciences

P.O. Box 1644

Zillah, WA 98953

Attn: Mr Dave Green

Report Date: 2/8/95

Reference: 95-0121

Date Analyzed: 1/24/95

Project: Chelan Fire Dist #1

Date Sampled: 1/23/95

Data Report

Page: 2 of 3

|                 | Sample                         | ppm        | (          | ppm        |            |             | Surrogate    |
|-----------------|--------------------------------|------------|------------|------------|------------|-------------|--------------|
| Lab Number      | Description                    | TPH        | Benzene    | Toluene    | Ebenzene   | Xylenes     | % Recovery   |
| 84-95-00275.0S  | MIE-0295-SP20                  | 92-AG      | nd         | nd         | nd         | nd          | 109          |
| 84-95-00275.0S  | Lab Dup MIE-0295-SP2           | 135-AG     | nd         | nd         | nd         | nd          | 109          |
| 84-95-00276.0S  | MIE-0295-S21                   | 209-D      | nd         | nd 、       | nd         | nd          | 117          |
| 84-95-00277.0S  | MIE-0295-S22                   | 1750-D     | nd         | nd         | nd         | nd          | 117          |
| 84-95-00278.0S  | MIE-0295-S23                   | T-D        | nd         | nd         | nd         | nd          | 117          |
| 84-95-00278.0S  | MS MIE-0295-S23                | 89.2%-D    | nd         | nd         | nd         | nd          | 99           |
| 84-95-00279.0S  | MIE-0295-S24                   | 15.2-D     | nd         | nd         | nd         | nd          | 99           |
| 84-95-00280.08  | MIE-0295-S25                   | 3500-D     | nd         | nd         | nd         | nd          | 97           |
| 84-95-00281.08  | MIE-0295-S26                   | T-D        | nd         | nd         | nd         | nd          | 101          |
| 84-95-00282.0S  | MS MIE-0295-S29                | T-D        | nd         | nd         | nd         | nd          | 101          |
| 84-95-00282.08  | MS MS MIE-0295-S29             | 108%       | nd         | nd         | nd         | nd          | 99           |
| 84-95-00283.0S  | MIE-0295-S30                   | ≀ nd ·     | nd         | nd         | nd         | nd          | 96           |
| 84-95-00284.0S  | MIE-0295-S31                   | nd -       | nd.        | nd         | nd         | nd          | 98           |
| 84-95-00285.0\$ | MIE-0295-S32                   | nd         | nd         | nd         | nd         | nd          | 98           |
| 84-95-00286.0S  | MIE-0295-S33                   | nd         | nd         | nd         | nd         | nd          | 98           |
| 84-95-00287.0S  | MIE-0295-S34                   | nd         | nd         | nd         | nd         | nd          | 96           |
| 84-95-00288.08  | MIE-0295-S35                   | nd         | nd         | nd         | nd         | nd          | 98           |
|                 |                                |            | , ,        |            |            |             |              |
|                 |                                |            |            |            |            |             |              |
|                 | Methods:                       |            |            |            |            |             | Method       |
|                 | WSDOE: WTPH-G/WTPH-D           |            |            |            |            |             | Acceptance   |
|                 | G- Gasoline A-Aged D-Diesel    | Soil/Water | Soil/Water | Soil/Water | Soil/Water | Soil/Water_ | Limits       |
|                 | Method Reporting Limit (MRL)** | 10.0/0.10  | 100/1.0    | 100/1.0    | 100/1.0    | 100/1.0     | Soil: 50-150 |
| ,               | Maximum Contamination Levels   | 100/1      | 500/5      | 40000/40   | 20000/30   | 20000/20    | H20: 50-150  |



QC Review:

Comments: \*- indicates heavier hydrocarbons

<sup>\*\* -</sup> A value of "<n" indicates elevated detection limits due to dilution or chromatographic interference MS - Matrix Spike at 200 ppm Gasoline\Diesel

Materials Testing & Consulting, Inc

WSDOE Laboratory #C057

WSDOH Laboratory #046

1151 Knudson Rd

Burlington, WA 98233

(206)757-1400 - FAX (206)757-1402

84

Client: Sage Earth Sciences

P.O. Box 1644 Zillah, WA 98953 Report Date: 2/8/95

Reference: 95-0121 Date Analyzed: 1/24/95

Attn: Mr Dave Green

Project: Chelan Fire Dist #1

Date Sampled: 1/23/95

Data Report

Page: 3 of 3

| •              | Sample                         | ppm            |            | ppm        |            |              | Surrogate       |
|----------------|--------------------------------|----------------|------------|------------|------------|--------------|-----------------|
| Lab Number     | Description                    | TPH            | Benzene    | Toluene    | Ebenzene   | Xylenes      | % Recovery      |
| 84-95-00289.0S | MIE-0295-SP9                   | 5300-D         | nd         | nd         | nd         | nd           | 97              |
| 84-95-00290.0S | MIE-0295-S36                   | nd             | nd         | nd         | nd         | nd           | 98              |
| 84-95-00291.0S | MIE-0295-S37                   | nd             | nd         | nd         | nd         | nd .         | 97              |
| 84-95-00292.0S | MIE-0295-S38                   | T-D            | nd         | ., nd      | nd         | nd           | 101             |
| 84-95-00292.0S |                                | 65.4-AG        |            |            |            |              | e in the second |
|                |                                |                |            |            | ,          |              | 100             |
| · -            |                                |                |            |            | • ,        |              |                 |
|                |                                |                |            |            |            |              |                 |
|                |                                |                |            |            |            |              |                 |
|                |                                |                |            |            | = -        |              |                 |
|                |                                | * <sub>4</sub> |            |            |            | 1 ,          |                 |
|                |                                | · · ·          | 1          |            |            |              |                 |
|                |                                |                |            |            |            |              |                 |
|                |                                |                |            |            |            |              |                 |
|                |                                |                |            |            |            |              |                 |
| ·              |                                | ,              |            |            |            |              |                 |
|                |                                |                |            | :          |            |              |                 |
|                |                                |                |            |            |            |              |                 |
|                |                                |                |            |            |            |              |                 |
|                | Methods:                       |                | . •        |            |            | ;     '.<br> | Method          |
| ,              | WSDOE: WTPH-G/WTPH-D           |                |            |            |            |              | Acceptance      |
|                | G- Gasoline A-Aged D-Diesel    | Soil/Water     | Soil/Water | Soil/Water | Soil/Water | Soil/Water   | Limits          |
|                | Method Reporting Limit (MRL)** | 10.0/0.10      | 100/1.0    | 100/1.0    | 100/1.0    | 100/1.0      | Soil: 50-150    |
|                | Maximum Contamination Levels   | 100/1          | 500/5      | 40000/40   | 20000/30   | 20000/20     | H20: 50-150     |

Comments: \*- indicates heavier hydrocarbons

\*\* - A value of "<n" indicates elevated detection limits due to dilution or chromatographic interference

MS - Matrix Spike at 200 ppm Gasoline\Diesel

QC Review

Materials Testing & Consulting, Inc WSDOE Laboratory #C057

WSDOH Laboratory #046

1151 Knudson Rd Burlington, WA 98233 (206)757-1400 - FAX (206)757-1402

Client: Sage Earth Sciences

P. O. Box 1644 Zillah, WA 98953

Attn: Mr. Dave Green

Date: 2/15/95 Reference: 95-0121

Project: Chelan Fire Dist #1

# **Data Report**

|                         | Sample                           |      | -        |     |  |              |          |
|-------------------------|----------------------------------|------|----------|-----|--|--------------|----------|
| Lab Number              | Description                      | Pb   | Units    |     |  |              |          |
| 84-95-00263.1S          | MIE-0295-S5                      | 39   | mg/Kg    |     |  |              |          |
| 84-95-00264.1S          | MIE-0295-S6                      | <25  | mg/Kg    |     |  |              |          |
| 84-95-00265.1S          | MIE-0295-S7                      | <25  | mg/Kg    |     |  |              |          |
| 84 <b>-</b> 95-00266.1S | MIE-0295-S8                      | <25  | mg/Kg    |     |  |              |          |
| 84-95-00267.1S          | MIE-0295-SP10                    | <25  | mg/Kg    |     |  | _            | <u> </u> |
| 84-95-00268.1S          | MIE-0295-SP11                    | <25  | mg/Kg    |     |  |              |          |
| 84-95-00276.1S          | MIE-0295-S21                     | <25  | mg/Kg    | • . |  |              |          |
| 84-95-00277.1S          | MIE-0295-S22                     | <25  | mg/Kg    |     |  | ,            |          |
| 84-95-00289.1S          | MIE-0295-SP9                     | <25  | mg/Kg    |     |  | \$           | 1.       |
|                         | MIE-0295-S5 dup                  | <25  | mg/Kg    |     |  |              |          |
|                         |                                  |      |          |     |  |              |          |
| 1                       |                                  |      |          |     | ,  |              |          |
|                         | Methods:                         | *    |          |     |  |              |          |
|                         | 3050/7421                        |      |          |     |  |              | -        |
|                         |                                  | Soil |          |     |  | <del> </del> |          |
| ÷                       | Method Reporting Limit (MRL)     | 25.0 |          | ,   | <del>                                     </del> |              |          |
|                         | Maximum Contamination Level(MCL) | 250  | <u> </u> | 1   | <del></del>                                      | <u> </u>     | <u> </u> |

L J Henderon Lab Director

### Analytical/Environmental Services

Materials Testing & Consulting, Inc

WSDOE Laboratory #C057 WSDOH Laboratory #046 1151 Knudson Rd Burlington, WA 98233 (206)757-1400 - FAX (206)757-1402

Client: Sage Earth Sciences

P. O. Box 1644 Zillah, WA 98953

Attn: Mr. Dave Green

Date: 2/22/95 Reference: 95-0259

Project: Chelan Fire Dist #1

## **Data Report**

|                | Sample                           |             | :     |                                       |                                       | 1   |   |
|----------------|----------------------------------|-------------|-------|---------------------------------------|---------------------------------------|-----|---|
| Lab Number     | Description                      | Flash Point | Units | Paint Filter                          | Units                                 | _   |   |
| 84-94-00602.0S | MIE-0295-SP9                     | >200        | F     | 0.0                                   | ml/5 min                              |     |   |
| 84-94-00603.0S | MIE-0295-SP19                    | >200        | F     | 0.0                                   | ml/5 min                              |     |   |
|                |                                  |             | ,     |                                       |                                       |     |   |
|                |                                  |             |       |                                       |                                       | ,   |   |
| ٠.             |                                  |             |       |                                       |                                       |     |   |
|                |                                  |             |       |                                       |                                       |     | - |
|                |                                  |             |       |                                       |                                       |     |   |
|                |                                  |             |       |                                       |                                       | a . |   |
|                |                                  |             |       |                                       |                                       |     |   |
|                |                                  |             |       |                                       |                                       |     |   |
|                |                                  |             |       |                                       |                                       | •   |   |
| · .<br>·       |                                  |             |       | , , , , , , , , , , , , , , , , , , , |                                       |     |   |
|                | Methods:                         |             |       |                                       | ,                                     |     |   |
|                | ASTM D-93-79 - Flash Point       |             |       | ·                                     | · · · · · · · · · · · · · · · · · · · |     |   |
|                | 9095 - Paint Filter              | Soil/Water  |       |                                       |                                       |     |   |
|                | Method Reporting Limit (MRL)     | 70.0        | F     | 0.0                                   | mL/5 min                              |     |   |
|                | Maximum Contamination Level(MCL) | 140         | F     | unk                                   | mU5 min                               |     |   |

L J Henderon Lab Director

### Materials Testing & Consulting, Inc.

WSDOE Laboratory # C057 WSDOH Laboratory #46092090

P.O. Box 309 Mount Vernon, WA 98273 (206)424-7560 - FAX (206)424-755

Client: Sage Earth Sciences

1108 Hillcrest

Grandview, WA 98930

Date: 2/23/95 Reference: 95-0259

Project: Chelan Fire Dist. #1

Attn: Mr. Dave Green

# **Data Report**

|                                       | Sample                              | Arochlors*              | <u> </u>     |              |      | <u> </u> | Surrogate    |
|---------------------------------------|-------------------------------------|-------------------------|--------------|--------------|------|----------|--------------|
| Lab Number                            | Description                         | (mg\Kg)                 |              |              |      |          | % Recover    |
| 34-95-00602.0S                        | MIE-0295-SP9                        | <1.0**                  |              |              |      |          | 108          |
| 34-95-00602.0S                        | MIE-0295-SP19                       | nd                      | -            |              | -    |          | 101          |
|                                       |                                     | 1                       |              |              |      | ,        | ļ            |
|                                       |                                     | -                       |              |              |      |          |              |
|                                       |                                     |                         |              |              |      |          |              |
| •                                     |                                     |                         |              |              |      |          |              |
|                                       | and the second second second second | g language and a second |              |              |      |          |              |
| 1                                     |                                     |                         |              |              |      |          |              |
|                                       |                                     |                         |              |              |      |          |              |
| QA\QC                                 |                                     |                         |              |              |      |          |              |
|                                       |                                     |                         |              | *            |      | ·        |              |
| ab Number                             | Sample Description                  | amnt added              | ms           | msd          | γ    | sd       | %RSD         |
| · · · · · · · · · · · · · · · · · · · |                                     |                         |              |              | ,    |          |              |
| 4-95-00602.0S                         | MIE-0295-SP19                       | 0.75 (1016)             | 0.70         | 0.78         | 0.74 | 0.05     | 1.22         |
|                                       | - ·                                 | 0.50 (1260)             |              | 0.64         | 0.61 | 0.04     | 3.48         |
| •                                     |                                     | 1                       |              |              | ,    |          | -            |
| •                                     |                                     | <b>-</b>                | -            | 1            |      |          |              |
|                                       |                                     |                         | ľ            |              |      |          | 1            |
|                                       |                                     |                         |              |              |      |          | ·            |
|                                       | *-Calibrated Arochlors              | ,                       |              |              |      | i i      | *            |
|                                       | Arochlor 1016                       |                         |              |              | · ·  |          | , ,          |
|                                       | Arochlor 1221                       |                         |              |              |      |          |              |
|                                       | Arochlor 1232                       |                         |              | 1            |      | 1        | 5            |
|                                       | Arochlor 1242                       |                         |              |              | ľ    | ]        |              |
|                                       | Arochlor 1248                       |                         |              | t            |      |          |              |
|                                       | Arochlor 1254                       |                         | }            |              | ,    |          |              |
|                                       | Arochlor 1260                       |                         |              |              |      |          |              |
|                                       | 7.100,1101 1200                     |                         | *            |              |      |          | , .          |
|                                       | Methods:                            |                         | 1            |              |      |          | EPA          |
|                                       | USEPA SW846: 3540\8080mod           |                         |              |              |      |          | Acceptance   |
|                                       | COLI A CARDIO. CONTOCOCCINICA       |                         |              | <del> </del> |      |          | Limits       |
|                                       | Method Reporting Limit (MRL)        | 0.5                     | <del> </del> |              | ,    |          | Soil: 50-156 |
|                                       | Maximum Contamination Levels        | 0.5                     |              |              |      |          | 3011. 30-130 |
|                                       | Intravillation Contamination Federa | I Z                     | l            | 1            |      | i        | 1            |

\* - Unidentified matrix interference.

Sr. Environmental Chemist



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Phone (509) 829-6400
Fax (509) 829-6443

CHAIN-OF-CUSTODY FORM
Project Name Chelan Fix Dist.
Project Nymber 146-0295
Sampler Robing Lange
Date 1/2495
Time 2.00 pm
Destination Margadal STESTINGS CONSUM

| ہا                    |           |  |                  | (        |           |        |          |            |             |             | 45-          |               | ,             |              | (            |              | _            |                  | ,                 |              |         |                                       |
|-----------------------|-----------|--|------------------|----------|-----------|--------|----------|------------|-------------|-------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|------------------|-------------------|--------------|---------|---------------------------------------|
| WY TO THE             |           |  | 52               |          | 54        |        |          |            |             |             | edach        | `             |               |              | £153         | 515          |              | 34/62            | 15 AM             |              |         |                                       |
| 7 2 2 2 2 7           |           |  | #SI 3            |          | 53 E      |        |          |            |             |             | ) Cad        |               |               |              | 516          | 5148         |              | Jate: 1/41/95    | Time: 9:15 AM     | Date:        | Time:   | Violated                              |
| 777                   |           |  | 3115             |          | 16. 4     |        |          |            |             |             | Filter       |               |               |              |              | #            | . j          | Da               | Tii               | Da           | Tii     |                                       |
| 4/2/2/2/2             |           |  | om pa            |          | nPosi     |        |          |            |             |             | Paint        |               |               |              | Te W         | osite        |              | 1                |                   |              |         | Seals: (Intact)                       |
| 1011                  | sted      |  | ) <del>]</del> 5 |          | 0         |        |          | ,          |             | -           | FP           |               | ,             | -"           | Courposi.    | nompo        |              | ghahar           | , · · · ·         | ,<br>)       | ì       |                                       |
| vestinationi <i>a</i> | Requested |  | PLEASE           | V        | PLEASE    |        |          |            |             |             | PCB.         | `             |               | ,            | W.           | 56           |              | 0.4              | •                 |              | 197/11  | Custody                               |
| חם                    |           |  |                  |          |           |        |          |            |             |             | for          |               |               |              | PLEA         | Please       |              | By:              | 7                 | By:          | 1210-56 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
|                       | Analyses  | 2  |                  | /        |           | \      |          |            |             |             | re/o         | ž             | _             |              | 1            | /            | /            | Received         | Firm: Ht          | Received     | n:      | No                                    |
|                       | Ar        | Notal S  |                  |          |           |        | ×        | ×          | $\times$    | $\times$    | $\times$     | ×             | ×             | ,            |              |              |              | Rec              | Firi              | Rec          | Firm:   |                                       |
| •                     | -32g      | 209  |                  |          |           |        |          |            | -           |             |              |               |               |              |              |              |              | 56               | -                 |              |         | Cool $(4^{o}C)$ : $(Yes)$             |
|                       |           | THE STATE OF THE S |                  |          |           |        |          |            |             |             |              |               |               | ١            |              |              |              | -23-95           | ndoo;             |              |         | Cool                                  |
| ٠                     | -         | HOLM   | X                | $\times$ | X         | X      | ×        | X          | X           | $\times$    | ×            | X             | X             | X            | X            | ×            | メ            | Date:/-          | Time: 2:00pm      | Date:        | Time:   |                                       |
|                       |           | 0124   | $\times$         | ×        | X         | ×      | X        | X          | X           | X           | X            | ×             | ×             | X            | ×            | ×            | ×            | De               | r.<br>Ti          | D            | $T_{I}$ | ated                                  |
|                       | JƏI       | ntainoD<br>esi2  | 400              | 400      | 405       | 400    | 400      | 405        | 402         | 402         | 402          | 402           | 402           | 400          | 400          | 402          | 405          | L Ked            |                   |              |         | ) Violated                            |
|                       |           | Number<br>Contain  |                  | /        | /         | /      | /        | /          | /           | /           | /            | 1             | /             |              | /            | _            | /            | othery           | cien              |              | `       | poog):                                |
|                       | X         | Matri  | Soil             | 2017     | 7105      | 5016   | 2016     | Soil       | 2108        | 2016        | 7105         | 7105          | 7105          | 7105         | 7105         | 7105         | 1105         | by: Roany I then | ath Sciences      | by:          |         | Container Condition: Good             |
|                       |           | , J  | 5/               |          | 53        | 54     | 55       | 99         | 22          | 8           |              | 110           | 111           | . \          | 13           |              | 57           | shed             | age of the second | shed         |         | ner Co                                |
|                       | Samula    | Number<br>Number   |                  | 28-562   | -56-      | -0245- | -0295-35 | 95-5620-31 | -552        | 295-5       | 295-5        | 8-56          | 15-562        | 295-5        | 295-5        | 295.5        | 5-562        | Relinquished     | Firm: S           | Relinquished | m:      | Contai                                |
| *                     | 20        | Nu   | MIE-0295-        | MIE-0295 | MIE-0295- | 118-0  | 16-00    | 16-0:      | M1E-0295-57 | 118-0295-58 | PMS-2950-31M | MIE-0295-SP10 | 11ds-5620-31W | 218-5820-31M | MIE-0295-513 | MIE-0295-519 | 218-2950-31M | Rel              | Firi              | Rel          | Firm:   |                                       |



P.O. Box 1644
601 Clenwood Drive
Zillah, W4 98953
Phone (509) 829-6400
fax (509) 829-6443

CHAIN-OF-CUSTODY FORM
Project Name Chelan Fix Dist It |
Project Number Mit -0295
Sampler Roding Last
Date 1-23-95
Destination Matterness Testung & ausurn, B.

| _                  | ·   |              |              |               |               |               |              |              |              |              |              |             |               |                |              |              |                        |  |              |       |                            |
|--------------------|---|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|----------------|--------------|--------------|------------------------|--|--------------|-------|----------------------------|
| S. Car             |   |              | `            |               | £/£           | 3             |              |              |              |              |              |             | (             |                |              |              |                        |  |              | • , ] | •                          |
| austerny to        |   |              |              |               | 7-56'         | Ź             | -            |              |              |              |              | . :         |               |                |              |              | Date: 1/24/95          | 15 Am  |              | 9     | ,                          |
| 10 20              |   | 25/6         |              | 5             |               | 1             |              |              |              |              |              |             | 1             | - 10           |              |              | te: 1/                 | Time: 9:15 Am  | Date:        | Time: | Violated                   |
| 162114             |   | #513         |              |               |               | Sum           | 1            |              |              |              |              |             | MEH           | SHIPMENT       |              |              | Da                     | Tir  | Da           | Tir   |                            |
| 1000               |   |              |              |               | Kohney        |               |              |              |              |              |              |             | SHIPMEH       | 145            |              |              |                        |  | · · ·        |       | Seals: Intact              |
| 711711             | sted  | 1 on Distr   |              | `.            | Rec F         | JONO          |              |              |              |              |              |             | N//           | <              |              |              | whan.                  |  |              |       |                            |
| Destination CHICKE | Requested   | 1956         | 1            |               | 1ter          | 7             | . , .        |              |              |              |              |             | 030           | INCLUBED       |              |              | Received By: Al Huchan | •  | . ,          | · j   | Custody                    |
| nes                |   | 4/9-         |              |               | PaintFilter   |               |              |              |              |              |              |             | INCL UDED     | TMCL           |              |              | By: L                  | $\mathcal{O}$  | By:          |       | )                          |
|                    | Analyses  |              |              |               | FP, I         | ,             |              |              |              |              |              |             | 104           | 11011          |              |              | ived                   | MTC  | Received By: | •     |                            |
|                    | <b>1</b> \<   | <b>,</b>     |              |               | PeB, 1        |               | X            | X            |              |              |              |             |               |                |              |              | Rece                   | Firm:  | Rece         | Firm: | es) No                     |
|                    | 50  | +            |              |               | to t          |               |              |              |              |              |              |             |               |                |              |              | 35                     | r  |              |       | (y C): (x                  |
|                    | 30100 S 514 |              |              |               | Felog         | a             |              |              |              | 5            |              |             |               |                |              |              | -23-95                 | 200 pm   |              |       | Cool (4°C): (Yes)          |
|                    | HAAN  | 1            | ×            | ×             | ×             | X             | X            | X            | <u> </u>     | X            | X            | $\times$    |               |                | ×            | ×            | \                      |  | :            | e:    |                            |
|                    | 0134  | >            | ×            | <br> <br>     | X             | X             | X            | X            | X            | X            | ×            | X           |               |                | ×            | X            | by: Cosny Their Date.  | L'Time:  | Date:        | Time: | đ                          |
|                    | TenitaineD<br>Size  | 1            | 402          | 402           | 700           | 400           | 400          | 402          | 402          | for          | 405          | 402         | 400           | 400            | 400          | 402          | T blen                 |  |              |       | Violated                   |
|                    | Vumber of<br>Containers   | 9            | 1            | 1             | /             | 2 4           | 1            | 7            | 7 /          | 1            | 7 /          | 1           | 1             | 1              | ,            |              | Dray .                 | Sciences   |              |       |                            |
|                    | Matrix  | +            | 2016         | 7705          | 2016          | 2016          | 7105         | 7105         | 7105         | 2010         | Soil         | Soil        | 777           | 708            | 7105         | Souch        | : (Kg                  | Earth  |              |       | Container Condition: (Good |
|                    |   |              |              |               |               |               | So           |              |              |              |              |             | 705 6         |                | * .          |              | d by                   |  | d by:        | . 1   | Condi                      |
| i                  | ole<br>oer  | 5-516        | -517         | 1-5P1         | - 5P1         | - SPZL        | -521         | -522         | -52          | -52          | - 526        | -526        | 28            | 185°           | -529         | 5-53         | uishe                  | The state of the s | uishe        |       | tainer                     |
|                    | Sample<br>Number  | MIE-0295-516 | MIE-0295-517 | MIE-0295-5718 | MIE-0295-SP19 | MIE-0295-5P20 | MIE-0295-521 | MIE-0295-522 | MIE-0295-523 | MIE-0295-524 | MIE-0295-525 | ME-0295-526 | M16-0295-8P27 | 82 45-5820-31W | MIE-0295-529 | ass-5670-31W | Relinquished           | Firm:  | Relinquished | Firm: | Соп                        |
|                    | ΔįΧ   | MIE          | MIE          | M1E-          | MIE           | MIE           | -31W         | MIE-         | M1E-         | MIE-         | MIE.         | ME-         | ME            | AHE-           | MIE-         | MIE          | R                      | F.   | R            | F     |                            |



601 Glenwood Drive Zillah, WA 98953 Phone (509) 829-6400 Fax (509) 829-6443 P.O. Box 1644

CUSTODY CHAIN-OF-

Project Name Chelan Fine Uset # /
Project Nymber ME-0295
Sampler Poblicy lest
Date 1-23-99 Time Ziocpm
Destination Material Extragic Lossuttary

|  |              |              | (            | •            |              | ,            |              |              |                 |        |   |   | ( |   |    |                           |                             |                  |       |                           |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|--------|---|---|---|---|----|---------------------------|-----------------------------|------------------|-------|---------------------------|
|  |              |              |              |              | ·            |              |              | -            |                 |        | : |   | : |   |    | 56/4                      | 15.4                        |                  |       |                           |
|  | -            |              |              |              |              |              |              |              | }               |        |   |   |   |   |    | Date: 1/24/95             | Time: 9./54                 | .e:              | ıe:   | Violated                  |
|  |              |              | i.           |              |              |              |              |              | BLANK           |        |   |   |   |   |    | Dai                       | Tin                         | Date:            | Time: |                           |
|  |              |              |              |              |              |              |              |              |                 |        |   |   |   |   |    |                           |                             |                  |       | Intact                    |
| pé   |              | •            |              |              |              |              |              |              | TRAVEL          |        |   |   |   |   |    | Je k                      |                             | - 16             |       | eals:                     |
| este   |              |              |              |              |              |              |              |              | - TR            |        |   | - |   |   |    | shah                      | . 1                         | Qc-2017          | 2     | Custody Seals:            |
| Requested  |              |              |              |              |              |              |              |              | $\frac{1}{2}$   |        |   |   |   |   |    | Rep shuhan                |                             | )                |       | Cust                      |
|  |              |              |              |              |              |              |              | ,            | >               |        |   |   |   |   |    | By:                       |                             | By:              |       | į                         |
| Analyses   |              |              |              |              |              |              |              |              |                 |        | , |   |   |   | í. | Received By:              | Firm: MTC                   | Received By:     | 1.    | No                        |
|  |              |              |              |              |              |              |              |              |                 | ;<br>; |   |   |   |   |    | Rece                      | Firm                        | Rece             | Firm. | ,                         |
| - More   |              |              |              | !            |              | * '          |              |              | X               |        |   |   |   |   |    | \                         |                             |                  |       | °C): }                    |
| 35 THE STATE OF TH |              |              |              |              |              |              |              |              |                 |        |   |   |   |   |    | -23-95                    | 2:00pm                      |                  |       | Cool (4°C): Yes           |
| HOLM   |              |              |              |              |              | ×            | <b>~</b> /   |              | >               |        |   | _ |   | _ | -  | _ \                       | 2                           |                  |       | Ö                         |
| 1  | <i>&gt;</i>  |              | X            |              | , X          | ./ \         | <u> </u>     | X            | <b>\</b> ,   \  |        |   |   |   |   |    | Date.                     | Time                        | Date:            | Time  |                           |
| 0134   | $\times$     | $\times$     | $\times$     | $\times$     | ×            | $\times$     | $\times$     | X            | X               |        |   |   |   |   |    | I                         | 7                           | I                |       | Violated                  |
| Container<br>Size  | 40c          | 400          | 400.         | 402          | 400          | 204          | 400          | 402          | 40 mc           |        |   |   |   |   |    | Hair                      | 33                          |                  |       | Viol                      |
| Number of<br>Containers  | _            |              | _            | _            |              | _            | _            | \            | _               |        |   |   |   |   |    | A year                    | CEL                         |                  |       | Good                      |
| Масгіх   | Soil         | 2016         | 5016         | Sou          | 20/2         | Som          | Soil         | 2108         | 120             |        |   |   |   |   |    | Relinquished by: May Khan | L C                         | y:               |       | Container Condition: Good |
|  |              |              |              | T.           |              |              |              |              |                 |        |   |   |   |   |    | ed b                      | $\mathcal{C}_{\mathcal{S}}$ | ed b             |       | . Conc                    |
| ole  | MIE-0295-531 | MIR-0295-532 | MIE-0295-533 | MIE-0295-534 | 5-53         | MIE-0295-336 | MIE-0295-537 | 5-53         | -783            |        |   |   |   |   |    | uish                      | Firm: Saye Enthy            | Relinquished by: |       | tainer                    |
| Sample<br>Number   | - 029        | - 029        | -029         | 920          | .620         | 670          | -029         | 620          | 0295            |        |   |   |   |   |    | elinq                     | irm.                        | eling            | Firm: | Cor                       |
| \ \( \sqrt{2} \)   | MIE          | MIE.         | MIE.         | MIE-         | MIE-0295-535 | -31M         | M16.         | M16-0295-538 | MIE - 0295-TB39 |        |   |   |   |   | ,  | R                         | 1                           | R                | F     |                           |

# Appendix F

Method A Cleanup Levels - Soil

| Hazardous Substance   | CAS Number | Cleanup Level            |   |
|-----------------------|------------|--------------------------|---|
| Arsenic               | 7440-38-2  | 20.0 mg/kg b             | , |
| Benzene               | 71-43-2    | 0.5 mg/kg c              |   |
| Cadmium               | 7440-43-9  | 2.0 mg/kg d              |   |
| Chromium              | 7440-47-3  | 100.0 mg/kg *            |   |
| DDT                   | 50-29-3    | 1.0 mg/kg f              |   |
| Ethylbenzene          | 100-41-4   | 20.0 mg/kg *             |   |
| Ethylene dibromide    | 106-93-4   | 0.001 mg/kg h            |   |
| Au. / Lane            | 7439-92-1  | 250.0 mg/kg <sup>1</sup> |   |
| Lindane               | 58-89-9    | 1.0 mg/kg <sup>3</sup>   |   |
| Methylene chloride    | 75-09-2    | 0.5 mg/kg k              |   |
| Mercury (inorganic)   | 7439-97-6  | 1.0 mg/kg <sup>1</sup>   |   |
| PAHs (carcinogenic)   |            | 1.0 mg/kg m              |   |
| PCB Mixtures          |            | 1.0 mg/kg <sup>n</sup>   | • |
| Tetrachloroethylene   | 127-18-4   | 0.5 mg/kg °              |   |
| Toluene               | 108-88-3   | 40.0 mg/kg P             |   |
| TPH (gasoline)        |            | 100.0 mg/kg q            |   |
| TPH (diesel)          |            | 200.0 mg/kg <sup>r</sup> |   |
| TPH (other)           |            | 200.0 mg/kg <sup>a</sup> |   |
| 1,1,1 Trichloroethane | 71-55-6    | 20.0 mg/kg <sup>t</sup>  |   |
| Trichloroethylene     | 79-01-5    | 0.5 mg/kg <sup>u</sup>   |   |
| Xylenes               | 1330-20-7  | 20.0 mg/kg v             |   |

## Appendix G



#### UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

| For Office Use Only    |                 |
|------------------------|-----------------|
| Owner # 0.000//10 X.C  | 2               |
| Owner # DODOO // ()    | <u> </u>        |
| Site # <u>891/3/15</u> | er begge of the |

| INSTRUCTIONS: |   |      |     |    |          | _  |     |   | _   | _    |          |
|---------------|---|------|-----|----|----------|----|-----|---|-----|------|----------|
|               | ì | 8. 1 | •   | N. | <b>P</b> | 21 | -14 | u | 18  | 1,71 | <b>-</b> |
|               | t | ar.  | ~ 3 |    | i٦       | T. | 73  |   | LV. | , ,  |          |

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be to 1995 completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

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

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

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

CHECKLIST: Please initial each item in the appropriate box.

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

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

| Site ID Number (on invoice or av  | railable from Ecolo  | ov if the tanks a  | re registered): 602025                        |
|---|--|--|---|
| Site/Business Name: <u>CHELAU</u>                                       |  |  | , <u>, , , , , , , , , , , , , , , , , , </u> |
| •   |  |  | () ()   |
| Site Address: 206 EAS   | STREET   | Telephone:   | (509) 662-4734                                |
| Wenatchee   | y  | WA.  | 9880 <del>9</del><br>ZIP-Cooe                 |
| TANKINFORMATION   |  |  |   |
| Tank ID No.   | Tank Cap   | acity  | Substance Stored                              |
| #2  | 1,000 GAF  | LON  | UNLEADED GASOLINE                             |
| #/  | 1,000 GAH  | V  | DIESEL  |
|   |  |  |   |
|   |  | \  |   |
| HEASON FOR CONDUCTINGS  |  | EASSESSMENT  |   |
| UST system permar UST system permar UST system permar UST system permar | ed release due to common of UST systoning change-in-semently closed-in-plantly closed with training product. | off-site environm<br>em for more that<br>rvice.<br>ace.<br>tank removed. | ental contamination.                          |

| CHE         | CKLIST  |   |             |
|-------------|---|---|-------------|
| Each        | item of the following checklist shall be initialed by the person registered with the De   | part-   |             |
| ment        | of Ecology whose signature appears below.   | YES   | NO          |
|             |   | 100%  | T-          |
| 1.          | The location of the UST site is shown on a vicinity map.  | hok.  |             |
| 2.          | A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)   | 684   |             |
| 3.          | A summary of UST system data is provided. (see Section 3.1)   | 681   | <u> </u>    |
| 4.          | The soils characteristics at the UST site are described. (see Section 5.2)  | 684   |             |
| 5.          | Is there any apparent groundwater in the tank excavation?   |   | 674         |
| 6.          | A brief description of the surrounding land use is provided. (see Section 3.1)  | 684   |             |
| 7.          | Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.           | 684   | ·           |
| 8.          | A sketch or sketches showing the following items is provided:   |   |             |
|             | - location and ID number for all field samples collected  | 684   |             |
|             | - groundwater samples distinguished from soil samples (if applicable)   | 67.4  | ν,          |
|             | - samples collected from stockpiled excavated soil  | 888   | =           |
| <del></del> | - tank and piping locations and limits of excavation pit  | 68*   |             |
|             | - adjacent structures and streets   | B3X   | <b></b> -,  |
|             | - approximate locations of any on-site and nearby utilities   | 129   | ·           |
| 9.          | If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)                                     | So. M. S. |             |
| 10.         | A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method. | £8.₩  |             |
| 11.         | Any factors that may have compromised the quality of the data or validity of the results are described.   | 68k   |             |
| 12.         | The results of this site check/site assessment indicate that a confirmed release of a regulated substance has <b>not</b> occurred.  |   | 684         |
| SITE        | ASSESSOR INFORMATION  |   |             |
|             | 0. 12   |   |             |
| Porce       | Rodney Heit Sciences Con registered with Ecology Firm Affiliated with   | <u>.c.</u>                                    |             |
| Busir       | ness Address: 60/ G/enwoon DRIVE Telephone: (509) 827-  | 5   | <b>&gt;</b> |
|             | Street  |   |             |
|             | ZILLAH WA. 98953  City State ZIP+Code   |   |             |
| I here      | by certify that I have been in responsible charge of performing the site check/site assessment  | descr   | ibed        |
|             | Persons submitting false information are subject to penalties under Chapter 173.360 WAC.  |   | -           |
|             |   |   |             |
|             |   |   |             |

Signature of Person, Registered with Ecology

Date



### UNDERGROUND STORAGE TANK

For Office Use Only Owner # (1/1/1/)/// Site#

Site Check/Site Assessment Checklist

|      |      |      |    | _   | _     | _   |    |
|------|------|------|----|-----|-------|-----|----|
| YSY. | 11 0 |      | -  | M I | / A ' | ٠,٦ | ~  |
| <br> | 1    | R WL | 73 |     | LU    |     | ~~ |
|      |      |      |    |     |       |     |    |
|      |      |      |    |     |       |     |    |

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

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

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

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

CHECKLIST: Please initial each item in the appropriate box.

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

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

| SITE INFORMATION Site ID Number (on invoice            | or available from Eco  | ology if the tanks a                      | are registered): 097305  |
|--|--|---|--|
| Site/Business Name: CHE                                | LAN COUNTY SHE   | CIFS DEPT.                                |  |
| Site Address: 206 E                                    | ASY STREET   | Telephone                                 | (509) 664-5260   |
| Wenate   | Street  Ch ee  City  | WA.                                       | 98807<br>ZIP-Gooe  |
| TANK INFORMATION                                       |  |   |  |
| Tank ID No.  | Tank Ca  | -   | Substance Stored   |
| #1   | 1,000 6  | ALLON                                     | AVIATION GAS   |
|  |  |   |  |
|  | <u> </u>   |   | _  |
|  |  | · · · · · · · · · · · · · · · · · · ·     | _  |
| REASON FOR CONDUCTI                                    | NG SITECHECK/SI  | TEASSESSMEN'                              | T .  |
| Check one:   |  |   |  |
| Investigate susp<br>Investigate susp<br>Extend tempora | pected release due to<br>pected release due to<br>ry closure of UST sy<br>dergoing change-in-s | o off-site environn<br>estem for more tha | nental contamination<br>nental contamination.<br>an 12 months. |
| UST system per UST system per                          | manently closed-in-<br>manently closed wit   | -place.<br>h tank removed.                |  |
| Abandoned tank Required by Ecc Other (describe)        |  | gency for UST sy                          | stem closed before 12/22/88.                                   |

#### CHECKLIST Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below. YES NO DB/A The location of the UST site is shown on a vicinity map. A brief summary of information obtained during the site inspection is provided. 2. (see Section 3.2 in site assessment guidance) A summary of UST system data is provided. (see Section 3.1) *661*# 984 The soils characteristics at the UST site are described. (see Section 5.2) 4. 67<u>4</u> Is there any apparent groundwater in the tank excavation? A brief description of the surrounding land use is provided. 684 6. (see Section 3.1) Information has been provided indicating the number and types of samples 7. collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses. A sketch or sketches showing the following items is provided: 8. 684 location and ID number for all field samples collected b7\$ groundwater samples distinguished from soil samples (if applicable) 686 samples collected from stockpiled excavated soil tank and piping locations and limits of excavation pit. adjacent structures and streets approximate locations of any on-site and nearby utilities If sampling procedures different from those specified in the guidance were used, 9. has justification for using these alternative sampling procedures been provided? (see Section 3.4) A table is provided showing laboratory results for each sample collected including; 10. sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method. Any factors that may have compromised the quality of the data or validity of 11. the results are described. 684 The results of this site check/site assessment indicate that a confirmed release 12. of a regulated substance has not occurred. SITE ASSESSOR INFORMATION Soge Earth Sciences Pr Firm Affiliated with Rodney Heit Person registered with Ecology Telephone: (509) 827-6400 Business Address: 60/ G/ENWOOD DRIVE I hereby certify that I have been in responsible charge of performing the site check/site assessment described

above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

-21-95

# Appendix H

## Appendix I



### GENERALOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code

397 WMNA 062039

| This form is to be used to co                | mply with the requirements of a waste agreement.   |  |
|--|--|--|
| INSTRUCTIONS FOR COM                         | PLETING THIS FORM ARE ATTACHED   |  |
| (Ensded Arese For Contractor Uni             | • Only)  | Decision Expiration Date: 14 , 6,90            |
| Contractor Sales Rep#:                       | ,  | Service Agr. Benewa: Date: / /                 |
| A. WASTE GENERATOR IN                        | JEOHMATION   |  |
| 1. Generator Name:Ch                         | clan County Fire District #1   | 2. SIC Code:                                   |
| 3 Facility Address (site of w                | asia ganeration): ZOG Edsy Street  | 2. 510 0006.                                   |
| A. Chanadana O'hir Crara 185-au              | in and the same of | 5. Zip/Postal Code: 98807                      |
| 5. Generator USEPA/Federa                    | al ID #  | 7. State/Province ID #:                        |
| 6. Technical Contact:                        | Phil Mosier on Dave Green (5050)   | 9. Phone: (509) 662 - 4734                     |
| 3. WASTE STREAM INFOR                        | MATION (See Instructions)  | J. (11010. ( 707)                              |
| 1. Name of Waste:                            | Diesel Continuinated seil.   |  |
| 2. Process Generating Wast                   | 8: Leaking Underground Storage, 1  | ank System                                     |
| 3. Annual Amount/Units:                      |  | 4 Type A ☑ Type B □                            |
|  | ons/Supplemental Information: Tarp during  | treens iort                                    |
|  | 7  |  |
| A land and the second                        | J/.  |  |
| 6. Incidental Waste Types ar                 | nd Amounts: Alex Co  |  |
|  |  |  |
| C. TRANSPORTATION INFO                       | ORMATION   |  |
| 1. Method of Shipment:                       | 🗖 Bulk Liquid 🔲 Bulk Studge 💆 Bulk Solid   | □ Drum/Box □ Other                             |
| <ol><li>Supplemental Shipping Inf</li></ol>  | formation Take Develop transport   |  |
|  |  |  |
|  | ·  |  |
| <ol><li>Is this a DOT hazardous in</li></ol> | naterial? 🖾 No 🗀 Yes (II yes, complete 4, 5 & 6) 🔝 4   | Hazard Class/IO #: NA                          |
| 5. Reportable Quantity/Units                 | (lb/kg): 8 445 6. Shipping Name: Fefro   | am Continued Soil                              |
| O. TECHNICAL MANAGER                         | DECISION (Check One) WAPPROVED DISAPPROV   | ED Check if additional information is attached |
| if Disapproved, Explain:                     |  |  |
| If Approved, Continue,                       |  |  |
| i. Management Method(s)                      | Landfill   |  |
|  | Mataura  |  |
| Precautions, Conditions, or                  | Material must be absent free liquids   |  |
| Limitations on Approval:                     |  |  |
|  |  |  |
|  |  |  |
|  |  | )  |
| 3. For Type A Wastes, Lahor:                 | atory Analysis of a Representative Sample Was:   | Waived XXI Attached                            |
| It waived, explain why:                      | Trong Antalysis of a representative demple vies.   | Malven Maryllactien                            |
| A with service and a                         |  |  |
|  |  |  |
| List Non-WMI Fecility that i                 | s Approved to Magage this Wasie!   | Date:/   |
| Tech. Mgr Signature:                         | Muce (Miller Name (Print): Bruce (   | labaugh Date: 4/6/45                           |
| MANAGEMENT FACILITY                          | INFORMATION / DECISION O   |  |
| Proposed Management Fac                      |  | while or Recycling Inc                         |
| Proposed Intermediate Train                  |  | Transporter:                                   |
|  | 1. J   | DISAPPROVED                                    |
| Il Disapproved, Explain.                     |  | SIGHT FROM LO                                  |
| If Approved, List                            |  |  |
| Precautions, Conditions, or                  |  |  |
| Limitations on Approva                       |  | - Characteristics                              |
| General Mgr. Signature:                      | Name (Print): Ellow R  | - Kichandson Date: 4-11-95                     |
|  | Turn Page and Complete Side 2 (If Type 6 Special Waste, o  |  |
| ***************************************      | · · · · · · · · · · · · · · · · · · ·  |  |



c t of 2 ANA-415: (02/92)

### GENERATOR'S WASTE PROFILE SHEET

| Constant   | PLEA                                 | SE BRINT IN INKIOUTIVE   | waste Profile Sheet Code   |
|--|--------------------------------------|--|--|
| S. S   |                                      | 4.000  | 1397 WMNA 178185   |
| form is to be used to comply W   | with the renuirements of a wa        | ste acceement  | VIVIVA   |
| To the second comply h   | the true rought of the true as a sec |  | Same of the second seco |
| TRUCTIONS FOR COMPLETIN  | NG THIS FORM ARE ATTA                | CHED [[[[]] CTLT]  | They may be seen a second of the second of t |
| ared Areas For Confrector Use Only)  |                                      |  | Decision Expiration Date: 16 AG  |
| tractor Sales Rep#!  |                                      | •  | Service Agr. Renewal Date:   |
| YASTE GENERATOR INFORM   | ATION                                |  | . !  |
| Senerator Name: Chr. Sacility Address (site of waste g   | lan Openty Sherrit                   | s Dept.  | 2. SIC Code:   |
| Facility Address (site of waste g  | aneration): 206 Eq                   | sy Street  | N del n ")   |
| Benerator City, State/Province: .  | seed of the                          |  | 5. Zip/Postal Code: 9 1807   |
| Aenerator USEPA/Federal ID #:  | 15 50                                | rth Sciences, Inc.   | 7. State/Province ID #:  |
| echnical Contact: Dave   |                                      | THE SCIENCE ! INC.   | 9. Prione: (30) 1 AE 2 - 14  |
| الاASTE STREAM INFORMATIO  | JN (500 Instructions)                | ed Soil (Aapa  | (Fasoline)   |
| Plocess Generating Waste:  | Lesking Undovar                      |  | k System-  |
| Annual Amount/Units:   | 38 chis 4010                         | 5  | 4. Type A 🖾 Type 8 🗋   |
| Special Handling Instructions/Su   | polemental Information:              | Taro during tra  | nsportation  |
| Special Figure 19 months and 1 |                                      |  |  |
|  |                                      |  |  |
| ncidental Waste Types and Am   | ounts: None-                         |  |  |
|  |                                      |  |  |
| <u></u>  |                                      | ***************************************  |  |
| TRANSPORTATION INFORMA   |                                      |  | Element Company  |
| Nethod of Shipment:  | Bulk Liquid Bulk Si                  | idge 🗵 Bulk Solid  | Drum/Box Dother  |
| Supplemental Shipping Informat   | ion;                                 | r harp puring  | - Ch (1.20 1.31 107 ·  |
|  |                                      |  |  |
| s this a DOT hazardous materia   | ID MA DE VAN DE VAN                  | 00mp(e) 0.4 5.2 5\   | . Hazard ClassilD #: NA  |
| s this a DOT nazardous materia<br>Reportable Quantity/Units (Ib/kg   | 11 May 140 Mass 11 Aest 11 Aest      |  | voleym Containingtod Scil  |
| ECHNICAL MANAGER DECIS   | MON (Chark One) RIASP                |  |  |
| f Disapproved, Explain:  | TOTA (GRIBCK OTTE) RESERVE           |  |  |
| f Approved, Continue.  |                                      |  |  |
| vianagement Method(s)  | andfill                              |  | A MARKET TO THE REST OF THE PARTY OF THE PAR |
| •  |                                      |  |  |
| Precautions, Canditions, or Mo   | aterial must be abs                  | ent free liquids.  |  |
| imitations on Approval:  |                                      |  | APT  |
| ·  | <u> </u>                             |  | · · · · · · · · · · · · · · · · · · ·  |
|  |                                      | -  | · · · · · · · · · · · · · · · · · · ·  |
|  |                                      |  | 47, 174  |
|  |                                      | <u> </u>   | Y &  |
| for Type A Wastes, Laboratory  | Analysis of a Representative         | Sample Was:  | ] Waived X D Attached  |
| f waived, explain why:   |                                      |  |  |
| 1  | <u> </u>                             | <del></del>  |  |
| ist Non-WMI Facility that is App   | proved to blessage this Waste        | P  | Date:  |
|  | - Ul Che Delug                       | e Name (Print): Bruce (  | Clabaugh Date: 4//e/45   |
| MANAGEMENT FACILITY INFO   | <u> </u>                             | a regime (r inity).  |  |
| Proposed Management Facility:  |                                      | y Rajinan Land   | LICE & ROCYCLING CONTER  |
| Proposed Intermediate Transfer   |                                      |  | Transporter: N/A   |
| Management Facility Gan. Mg.   |                                      | And the second s | DISAPPROVEO  |
| f Disapproved, Explain:  |                                      | ,  | · · · · · · · · · · · · · · · · · · ·  |
| Approved, List   |                                      |  |  |
| Precautions, Conditions, or  |                                      |  |  |
| imitations on Approvat   | 300/                                 | . ນ  | Vilandson Date 4-11-22   |
| Seneral Mgr. Signature:  | Boss and Camples Side O              | Name (Print): ELLOW R  |  |
| Tuti   | 1 Lada aud Combiste 21ds 5           | III I YOR & Special Waste  | only complete Pan J of Side 2)   |

| Prefile<br>tomer#_03; | 21605          | 1_u<br>25tr | nit#<br>زر+ | HI   | ·     |       | Date_ | !        |          | <u> </u> | 19    | 95       |
|-----------------------|----------------|-------------|-------------|------|-------|-------|-------|----------|----------|----------|-------|----------|
| ress                  |                |             |             | C    | ity   |       |       |          |          | Zip_     |       |          |
| Location              | Cashii<br>1774 | er<br>•     | A           | Cash |       |       | harge |          |          | lime     |       | rd Party |
| Description           | Total<br>Yards | Gals        | U           |      | ompac | led : |       | Regulati | ompac    | ted      |       |          |
| CS.                   | 70             |             | 1 43        | RO   | _ Hes | Comm  | L\$   | PO       | Res      | Comm     |       | Amoun    |
| CS                    | 70             |             |             |      |       |       |       |          |          |          | 21100 | 4/80.    |
| 000                   | 20             |             |             |      |       |       |       |          | <u> </u> |          |       | 4805     |
| 200                   |                |             |             |      |       | -     |       |          |          |          |       | 4800     |
| 200                   | 20             |             |             |      |       |       |       |          |          |          |       | 480.0    |
| <u>C.</u>             | Zc_            |             |             |      |       |       |       |          |          |          |       | 480°     |
|                       |                |             |             |      |       |       |       |          |          |          | ****  | 1        |
|                       | 1 . [          | - 1         |             | - !  |       | 1     |       |          |          |          |       |          |