

**UNDERGROUND STORAGE TANK CLOSURE AND  
PETROLEUM CONTAMINATED SOIL  
REMOVAL ACTION  
315 NORTH SAMISH WAY  
BELLINGHAM, WASHINGTON**

*prepared for:*

City of Bellingham  
210 Lottie Street  
Bellingham, Washington 98225

**December 17, 2015**



*soil | water | air  
compliance consulting*

228 East Champion Street, Suite 101, Bellingham, WA 98225  
**tel** 360.752.9571 | **fax** 360.752.9573 | [www.whatcomenvironmental.com](http://www.whatcomenvironmental.com)

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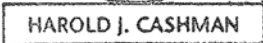
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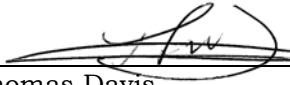
*Prepared by:*

Whatcom Environmental Services  
228 East Champion Street #101  
Bellingham, Washington 98225

December 17, 2015

  
\_\_\_\_\_  
Harold Cashman  
Project Manager

  
\_\_\_\_\_  
Thomas Davis  
QA/QC Reviewer

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## **1.0 INTRODUCTION**

An Underground Storage Tank (UST) site assessment at closure and a petroleum contaminated soil (PCS) removal action have been completed at 315 North Samish Way in Bellingham, Washington. The property was the site of the Aloha Motel and is shown on Figure 1. The two unregulated heating oil tanks (450-gallon and 700-gallon) were discovered during demolition work being conducted at the subject property in November 2015.

The tanks were decommissioned by WL Repair of Ferndale, Washington. The tanks were located in separate tank pits. The tanks and tank pit soils were inspected following removal from the ground and it was determined that the northern tank (Tank #1) was intact and the southern tank (Tank #2) had released heating oil to the ground at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup level.

A subsequent PCS removal action was conducted following the UST site assessment. Approximately 157 tons of petroleum contaminated soil were removed from the subject property for offsite treatment and disposal.

Soil samples were collected from the extent of the excavation to document the condition of soil left in place at the site following the completion of the PCS removal action. Soil sample analytical results indicated that the soil remaining at the subject property meets the MTCA Method A cleanup criteria for unrestricted land use.

This report was prepared by Whatcom Environmental Services Inc. and the information provided in the report supplements the completed UST Site Check/Site Assessment Checklist, included as Appendix A.

## **2.0 SITE SETTING**

The UST Site Assessment was conducted at 315 N. Samish Way in Bellingham, Washington. The property is located in the northwest quarter of the southeast quarter of Section 31 in Township 38 North, Range 3 East. The property is approximately 1.5 acres in area and consists of two tax parcels (380331421256 and 380331425243). The property is zoned by the City of Bellingham as Commercial.

The property is owned by the City of Bellingham. The site is located approximately 1.20 miles east of Bellingham Bay, 0.90 miles south of Whatcom Creek, and 0.15 miles west of Interstate-5. The elevation of the site is approximately 215 feet above mean sea level. The property is generally level but does have a gentle slope towards the west/northeast. A site location map showing the surrounding area and topography is provided as Figure 1.

The eastern portion of the property is covered with grass and landscape vegetation. The middle portion of the site is covered with an asphalt parking lot. Two buildings were situated on the northwest and southwest edges of the subject property. The two USTs were associated with the southern structure.

### **2.1 SITE GEOLOGY**

The subject property is located in the northern portion of the Puget Sound Basin. The region is characterized by thick sequences of Pleistocene glacial advance outwash and meltwater deposits that settled on a basement of tectonically deformed sedimentary and ancient metamorphic bedrock. The glacial deposits have been reworked by more recent fluvial, lacustrine, and aeolian actions into the landforms present today.

Soils in the area of the subject property are described online through the Web Soil Survey (U.S. Department of Agriculture [USDA], 2014). The Soil Survey designates the soil as Chuckanut–Urban land complex, 5 to 20 percent slopes. The soil is composed of approximately 50 percent Chuckanut loam and 35 percent Urban Land. The Chuckanut soil is very deep and well drained. It formed in a mixture of volcanic ash and colluvium derived from glaciomarine deposits and sandstone. Permeability is moderate in the

Chuckanut loam. Available water capacity is very high. Urban land is designated where areas of pavement and human activity make the identification of soil types difficult.

The site is underlain by the Padden Member of the Chuckanut Formation (Lapen, 2000). The Padden Member consists of moderately well-sorted sandstone and conglomerate with some mudstone and minor coal seams. Easterbrook (1976) describes the surficial material at the site as outwash sand and gravels of the Sumas glacial Stade.

Observations made at the site indicate that the area beneath the footprint of the southern building contained either reworked native or imported fill material. The materials were coarse and loose compared to soils encountered outside the building footprint. Areas investigated outside of the building footprint were more in line with the described surficial geology. The Padden Member of the Chuckanut Formation was present below the ground surface at depths ranging from 4 to 8 feet bgs. Test pit logs are included in Appendix B.

## **2.2 SITE HYDROGEOLOGY**

Soil encountered within the two tank pits and in several test pits excavated within the southern building footprint were moist with what appeared to be trapped water, i.e. when moist soil was removed from an area, there was not a significant recharge of water in the excavation as would be expected from an actual aquifer. In addition, two test pits excavated outside the southern building footprint in the grassy areas approximately 50 feet to the south and east of the UST locations (Test Pits -4 and -5) and did not indicate the presence of significant water at depth on the sandstone surface.

No groundwater was encountered within the tank pit excavations or several investigatory test pits excavated to assess the heating oil release extent; therefore, no groundwater investigation was conducted as part of this UST site assessment and PCS removal action.

### **3.0 SELECTION OF CLEANUP STANDARDS**

The Model Toxics Control Act (MTCA) Method A target cleanup levels for soil were selected as screening levels for the site (Ecology, 2013). These levels have been established for unrestricted land use in accordance with WAC 173-340 and can be found in Table 740-1. The soil data collected during the investigation were compared to the applicable MTCA Method A cleanup levels.

The cleanup goals for the site were set such that at the completion of the project the TPH concentrations remaining in soil at the subject property met the MTCA Method A unrestricted land use cleanup criteria.

Samples collected from the site were analyzed for diesel and oil-range range total petroleum hydrocarbons (TPH) using Method NWTPH-Dx.



## **4.0 TANK CLOSURE**

WL Repair provided the UST decommissioning services during the UST closure. Two heating oil USTs were decommissioned and removed from the ground on November 19, 2015. The tanks were located in separate tank pits. Tank #1 was approximately 450 gallons and Tank #2 was approximately 700 gallons in volume. A map showing the location of the removed tanks and other pertinent site features is provided as Figure 2.

The Department of Ecology does not regulate heating oil storage tanks under 1,100 gallons capacity, therefore no record of the tanks were found in the Ecology UST database.

Both USTs consisted of single-walled steel tanks without any corrosion protection. The tanks were overlain by approximately 1 to 2 feet of overburden and were bedded in what appeared to be reworked native or imported fill material.

Tank #1 was known to exist before the demolition of the southern building. A fill port and a tank vent were located near the southern parking stall on the west/southwest side of the building. Two paired copper lines were observed emanating from the floor of a small exterior furnace enclosure located near the tank location.

No evidence of Tank #2 was observed prior to demolition. The tank was situated beneath the structure's utility/storage room where the hot water heaters were housed. The tank was discovered after the structure had been razed and olfactory evidence of a release was noted by the demolition crew.

Whatcom Environmental observed the decommissioning of the tanks and inspected each tank when they were removed from the ground. Both tanks were in poor condition with significant corrosion and pitting on the exterior steel surface.

Tank #1 was 3 feet, 2 inches in diameter and 8 feet long. A small volume of petroleum contaminated water was present in the tank prior to decommissioning. The water was removed and the tank was cleaned prior to removal from the ground. Several small holes were observed in the tank welds on the southern end of the tank, however field screening evidence did not indicate that a release had occurred from Tank #1.

Tank #2 was 3 feet, 2 inches in diameter and 12 feet long. Petroleum contaminated water was present in the tank prior to decommissioning. The water was removed and the tank was cleaned prior to removal from the ground. Soil on the top of the tank was screened for organic vapors and appeared to be impacted by a heating oil release. The top surface of the tank was riddled with small holes and after the tank was removed from the ground numerous holes were observed on the sides and the bottom of the tank. Field screening indicated that contaminated soil was present on all sides of the tank.

All fluids associated with the UST cleaning were removed from the site for disposal by Marine Vacuum Services Inc. of Seattle, Washington.

#### **4.1 UST SITE ASSESSMENT SOIL SAMPLE COLLECTION AND ANALYSIS**

Soil samples were collected per UST Site Assessment requirements and the *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology, 2003). The approximate soil sample locations are shown on Figure 2. Each soil sample was described in general accordance with ASTM D2487 and recorded in a field notebook. Soil sample descriptions, collection depths, field screening, and sample dates are shown in Table 1.

Soil was field screened for indications of petroleum contamination by conducting head space analyses for organic vapors using a photoionization detector (PID) and by conducting sheen tests. The organic vapor headspace analyses were conducted using a MiniRAE Model 3000 PID equipped with a 10.6 eV lamp.

The soil samples were collected using stainless steel sampling equipment. The tools were washed in accordance with good industry practices using Alconox detergent and rinsed with distilled water prior to sample collection. Each sample was placed in a clean sample container provided by the lab, stored in a cooler with ice, and shipped to ALS Laboratory Group in Everett, Washington. ALS is accredited by Ecology. Strict chain-of-custody and QA/QC protocols were followed for each sample.

All samples were analyzed for diesel and oil range total petroleum hydrocarbons (TPH) using method NWTPH-Dx and the results were compared to the MTCA Method A cleanup levels.

**Tank Pit #1**

Three soil samples were collected from Tank Pit #1 on November 19, 2015. The samples were collected from the southern and eastern sidewalls and the excavation floor. Each sample was identified with the tank ID, location, and depth, e.g. *Tank #1 Floor 5ft*.

The soil samples generally consisted of brown, medium to coarse sand and gravel that was loose and wet. Field screening indicated minor organic vapor readings and no petroleum sheens in each sample. The samples are described in Table 1.

**Tank Pit #2**

One UST Site Assessment soil sample was collected from Tank Pit #2 on November 19, 2015. The soil sample was collected to confirm the release of heating oil to soil in the tank pit. The sample identified as *Tank #2 Floor 4.5ft* was collected from the floor of the tank pit approximately 1 foot below the bottom of the tank. The sample consisted of gray to brown, fine silty sand that was loose and wet. Field screening indicated significant organic vapors and a heavy petroleum sheen. The sample is described in Table 1.

A second soil sample was collected from Tank Pit #2 from a depth of 5.5 feet (approximately 1 foot below sample *Tank #2 Floor 4.5ft*) in an attempt to determine the total depth of contamination in Tank Pit #2. Soil sample *Sandstone 5.5ft TP#2* was collected immediately above the sandstone bedrock. The sample contained less organic vapors than sample *Tank #2 Floor 4.5ft* and exhibited a slight sheen.

**4.2 UST SITE ASSESSMENT SOIL SAMPLE RESULTS**

Soil sample analytical results for the samples collected from Tank Pit #1 following the removal of the UST from the ground did not contain detectable concentrations of diesel or oil range TPH, confirming that a heating oil release did not occur from Tank #1.

Soil sample analytical results for the sample collected from Tank Pit #2 following the removal of the UST from the ground confirmed that a release of heating oil had occurred from Tank #2 at a concentration which exceeded the MTCA Method A target cleanup level. Diesel range TPH was detected at a concentration of 3,800 mg/kg, which exceeded the target cleanup level of 2,000 mg/kg. A summary of diesel and oil range TPH analytical results is provided in Table 2. The original laboratory analytical data reports are included in Appendix C.

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#### **4.3 TEST PIT INVESTIGATION SOIL SAMPLE COLLECTION AND ANALYSIS**

A test pit investigation was conducted following the removal of the USTs from the site to evaluate soil conditions at the site. Five test pits were excavated to assess the extent of the heating oil released from Tank #2. The test pit excavation locations are shown on Figure 3.

Field screening results indicated the presence of petroleum within the southern building footprint area that had moderate organic vapor readings and moderate to heavy petroleum sheens. Screening results for soil located outside the building footprint in the grassy areas to the south and east did not indicate the presence of contamination. Seven soil samples were collected from the test pits for laboratory analysis.

#### **4.4 TEST PIT INVESTIGATION SOIL SAMPLE RESULTS**

Soil sample analytical results for the samples collected during the test pit investigation indicated that, despite the field screening results, concentrations of diesel range TPH remaining in the soil near Tank #2 did not exceed the MTCA Method A target cleanup level of 2,000 mg/kg. Soil outside the building footprint did not contain detectable concentrations of diesel range TPH. Soil sample analytical results are summarized in Table 2.

The decision was made to remove the PCS from the area surrounding the location of Tank #2.

## **5.0 PETROLEUM CONTAMINATED SOIL REMOVAL ACTION**

Based on the field screening observations and laboratory results of the UST Site Assessment soil samples, a PCS removal action in the vicinity of Tank #2 was initiated at the site on December 3, 2015 and completed on December 4, 2015. Whatcom Environmental Services personnel were onsite during the PCS removal work to field screen excavated soil and collect soil samples from the extent of the excavated area.

The PCS removal work extended in all directions from the tank pit, primarily to the east and south. Field screening analysis was used to guide the excavation of PCS from areas where organic vapor and sheen indications showed the presence of petroleum contamination. The excavation depth was limited by the hard sandstone surface located approximately 5 feet below the level of the western parking lot.

The final excavation was approximately 27 feet long by 21 feet wide by an average of 4.5 feet deep. The excavation extent is shown on Figure 3. No groundwater was observed at the final depth and extent of the PCS excavation.

All excavated PCS was hauled offsite for treatment via thermal desorption and disposal at Cemex in Everett, Washington. Cemex is a licensed PCS treatment and disposal facility. Approximately 157 tons of soil were excavated and removed from the site. A Cemex Certificate of Disposal documenting the treatment of the excavated PCS is provided in Appendix D.

### **5.1 FINAL EXCAVATION SOIL SAMPLE COLLECTION AND ANALYSIS**

When field screening results indicated that a particular section of the excavation appeared to be no longer impacted by petroleum compounds, soil samples were collected for laboratory analyses. Five soil samples were collected from the floor and sidewalls of the final excavation to document the effectiveness of the remedial action. The final clean confirmation soil samples were identified as SS-1 through SS-5.

The clean confirmation soil samples were analyzed for diesel and oil range TPH using Method NWTPH-Dx.

**5.2 FINAL EXCAVATION SOIL SAMPLE RESULTS**

All clean confirmation soil sample analytical results indicated that soil remaining at the subject property in the vicinity of the heating oil release at Tank #2 contained either undetectable concentrations of diesel range TPH or concentrations that did not exceed the MTCA Method A target cleanup level. Oil range TPH was not detected in any sample. Soil sample analytical results are summarized in Table 2. The original laboratory analytical data reports are provided in Appendix C.

## **6.0 CONCLUSIONS**

Two abandoned heating oil USTs were decommissioned and removed from the ground on November 19, 2015 at 315 N. Samish Way in Bellingham, Washington. The tanks were decommissioned by WL Repair. Whatcom Environmental Services was present as the tanks were removed from the ground to make observations and found both tanks in poor condition, with several obvious holes.

Soil was field screened and samples were collected at each tank per UST site assessment guidelines. Field screening and soil sample analytical results indicated that a release of petroleum products had not occurred to soil from Tank #1. Field screening and soil sample analytical results indicated that a release of petroleum products had occurred to soil from Tank #2.

A test pit investigation was initiated to assess the aerial extent of the release to soil from Tank #2. The laboratory analytical results from seven soil samples collected during the test pit investigation indicated that the PCS was contained in the relatively coarse soil present in the footprint of the southern building.

A petroleum contaminated soil removal action was completed in order to remediate the site. Approximately 157 tons of soil were removed from the property for offsite treatment and disposal. Groundwater was not encountered within the remedial excavation.

Five soil samples were collected to document the condition of soil left in place following the completion of the PCS removal action. Soil sample analytical results indicated that the soil remaining at the site meets the MTCA Method A diesel range TPH cleanup criteria.

The site soil has been remediated in accordance with MTCA and in our opinion, no further action is required at the site.

## **7.0 LIMITATIONS**

No site investigation can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Documentation of the soil remediation by Whatcom Environmental Services is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental contamination in connection with the subject property.

The interpretation of subsurface soil and groundwater conditions is based on Whatcom Environmental's field observations and chemical analytical data collected from relatively widely spaced sampling locations at the site. It is possible that contamination exists beneath portions of the site that were not explored, sampled, or analyzed. No warranty, express or implied, is given regarding the presence of hidden or unidentified sources of contamination of the subject property. In addition, no warranty, express or implied is given regarding geotechnical or geologic hazards.

This environmental report is based on conditions that existed at the time the investigation was performed and samples collected. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, ground instability, or groundwater fluctuations.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted environmental practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

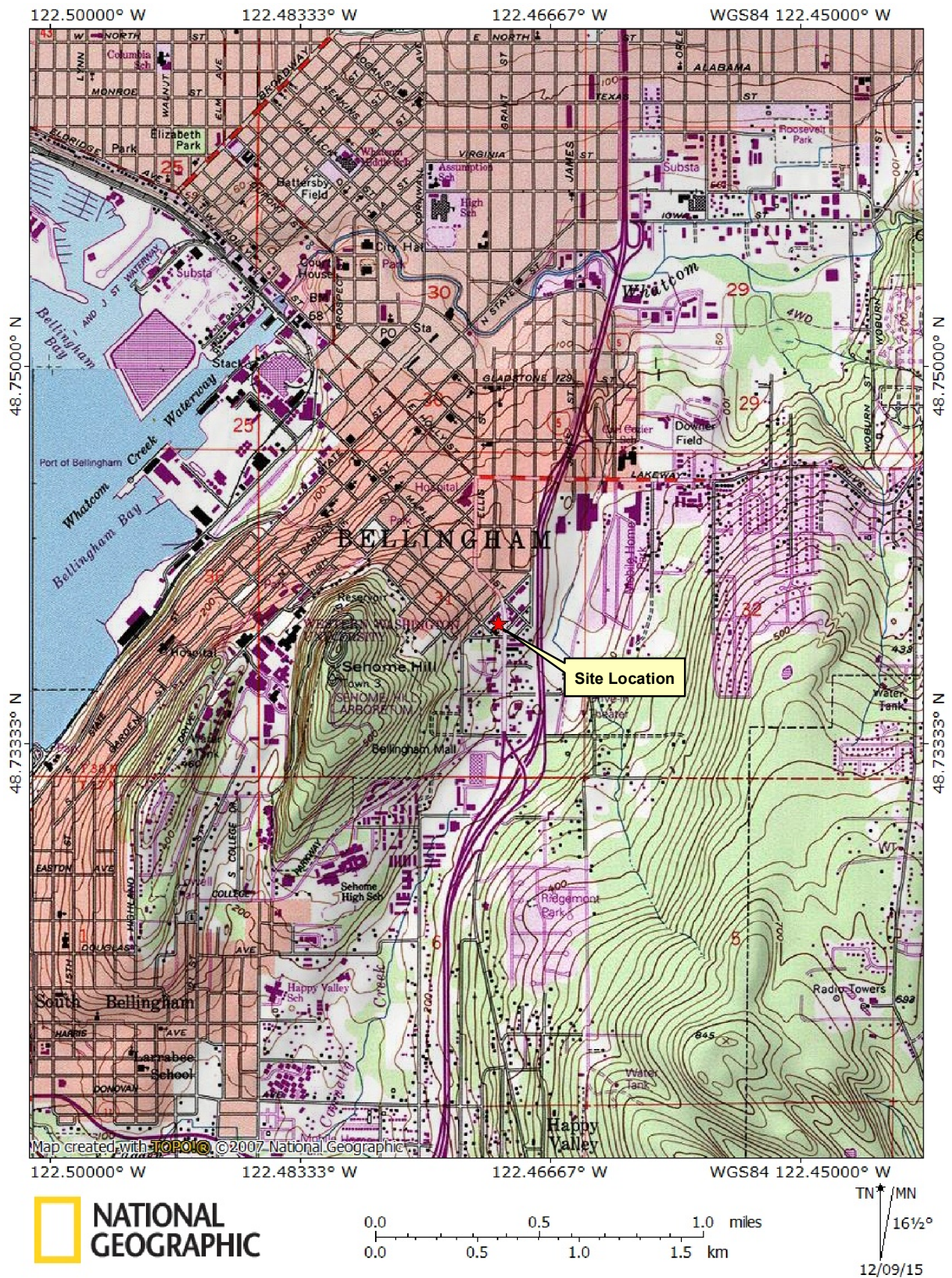
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## 8.0 REFERENCES

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- Washington State Department of Ecology. 2011. Guidance for Remediation of Petroleum Contaminated Sites. Publication No. 10-09-057.





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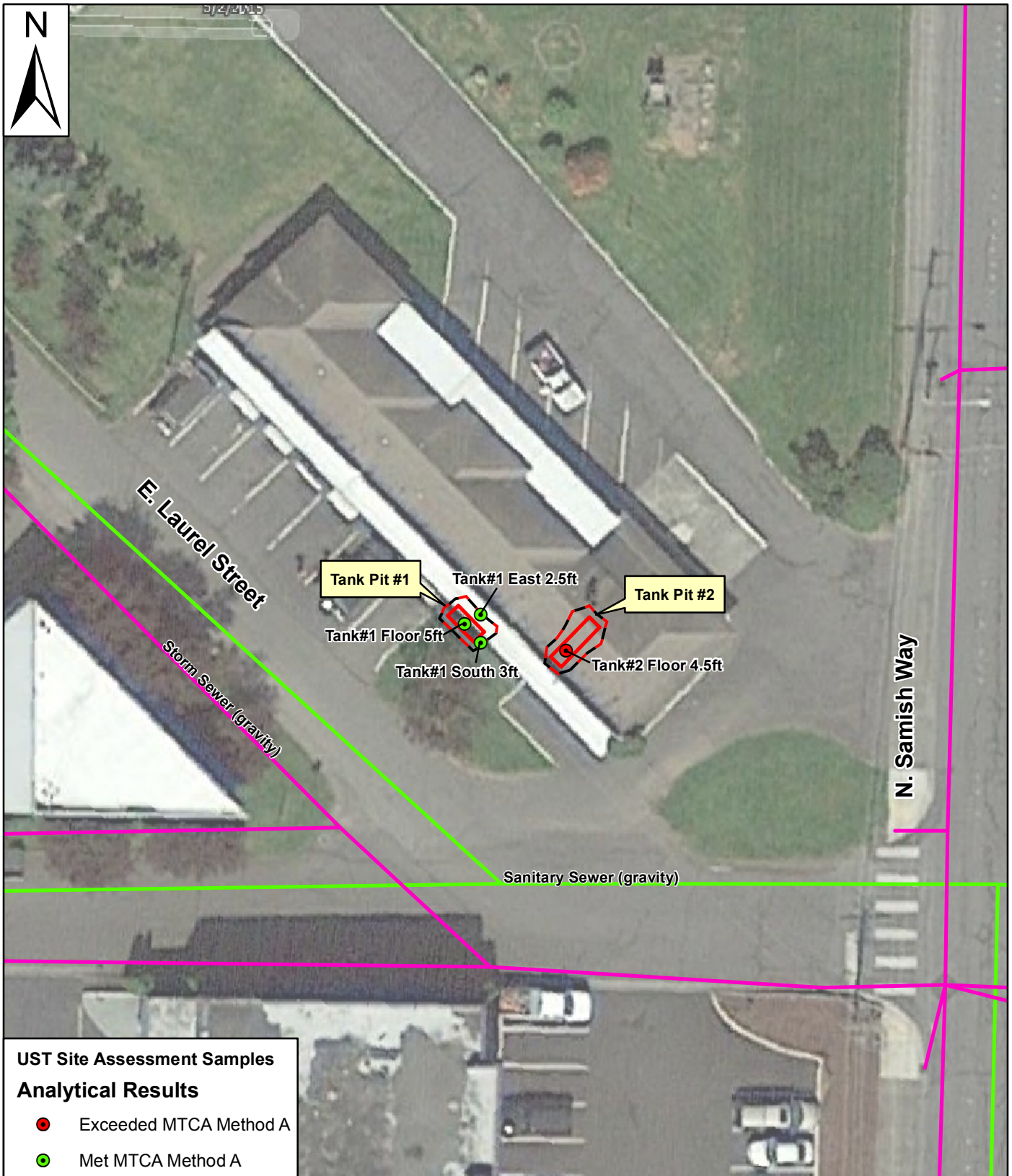
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Site Location Map

Aloha Motel  
UST SA  
12/09/2015

Figure 1





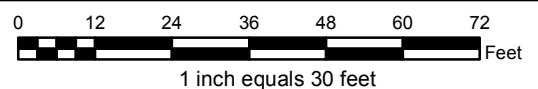
**UST Site Assessment Samples  
Analytical Results**

- Exceeded MTCA Method A
- Met MTCA Method A

  UST Excavations

  USTs

All data are approximate and should be  
used for relative location reference only.  
2015 Aerial Photograph - GoogleEarth



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**UST Site Assessment  
Soil Sample Location Map**

Aloha Motel  
UST SA  
11/30/15

**Figure 2**



#### Confirmation Soil Samples

#### Analytical Results

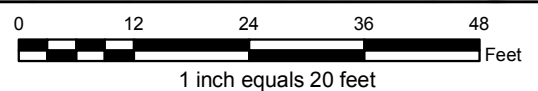
● Met MTCA Method A

▬ Tank#2 PCS Excavation Extent

▬ Test Pit Excavation

▬ USTs

All data are approximate and should be used for relative location reference only.  
2015 Aerial Photograph - GoogleEarth



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Heating Oil Release Investigation and  
Remedial Action Sample Location Map

Aloha Motel  
UST SA  
11/30/15

Figure 3

**Table 1. Soil Sample Descriptions - Aloha Motel Property**

| Sample ID                                                                   | Date     | Location and Description                                                                                                                                                              | PID<br>(ppm) | Sheen<br>Test* |
|-----------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| <b><u>Tank Pit #1 Samples</u></b>                                           |          |                                                                                                                                                                                       |              |                |
| <b>Tank #1 Floor 5ft</b>                                                    | 11/19/15 | UST Site Assessment sample collected approximately 1 foot beneath tank center<br>Gravelly coarse sand, brown, loose, wet                                                              | 7.6          | NS             |
| <b>Tank #1 East 2.5ft</b>                                                   | 11/19/15 | UST Site Assessment sample collected from east sidewall approximately mid-tank level<br>Medium to coarse sand with minor gravel, brown, loose, wet                                    | 2.3          | NS             |
| <b>Tank #1 South 3ft</b>                                                    | 11/19/15 | UST Site Assessment sample collected from south sidewall slightly below mid-tank level<br>Medium to coarse sand with minor gravel, brown, loose, wet                                  | 3.6          | NS             |
| <b><u>Tank Pit #2 Samples</u></b>                                           |          |                                                                                                                                                                                       |              |                |
| <b>Tank #2 Floor 4.5ft</b>                                                  | 11/19/15 | UST Site Assessment sample collected approximately 1.5 feet beneath the fill port end of the tank<br>Silty fine sand with minor gravel, brown to gray, loose, wet                     | 186          | HS             |
| <b>Sandstone 5.5ft TP#2</b>                                                 | 11/19/15 | Investigatory sample collected at the contact of the site soil and the Chuckanut Sandstone surface in Tank Pit #2<br>Sandstone, gray/brown, hard, moist                               | 68           | SS             |
| <b><u>Test Pit Samples</u></b>                                              |          |                                                                                                                                                                                       |              |                |
| <b>TP-1 6ft</b>                                                             | 11/19/15 | Collected from Test Pit-1 located approximately 20 feet SE of Tank Pit #2 at indications of PCS.<br>Medium sand and sandstone chunks, olive gray, loose, moist                        | 150          | MS             |
| <b>TP-1 Sandstone 6.5ft</b>                                                 | 11/19/15 | Test Pit-1 sample collected at sandstone/soil interface<br>Sandstone, brown, hard, moist to slightly dry                                                                              | 4.8          | NS             |
| <b>TP-2 Sandstone 4ft</b>                                                   | 11/19/15 | Collected from Test Pit-2 located approximately 25 feet east of Tank Pit #2 at the sandstone/soil contact<br>Sandstone, brown, hard, moist                                            | 2.3          | NS             |
| <b>TP-3 Sandstone 6ft</b>                                                   | 11/19/15 | Collected from Test Pit-3 located approximately 20 feet northeast of Tank Pit #2 at the sandstone/soil contact<br>Fractured sandstone, dark gray, hard, wet                           | 138          | HS             |
| <b>TP-3 7ft</b>                                                             | 11/19/15 | Collected at northwest end of Test Pit-3 approximately 8 feet NE of <i>TP-3 Sandstone</i> sample and above the sandstone contact<br>Silty sand, dark gray, loose, moist to wet        | 10.5         | SS             |
| <b>TP-4 8ft</b>                                                             | 11/20/15 | Collected from Test Pit-4 located approximately 50 feet NE of Tank Pit #2 at the sandstone/soil contact<br>Fine sandy clayey gravelly silt, brown to tan, soft, moist to slightly wet | 2.1          | VSS            |
| <b>TP-5 7ft</b>                                                             | 11/20/15 | Collected from Test Pit-5 located approximately 50 feet SE of Tank Pit #2 above sandstone contact<br>Fine sandy clayey silt with minor gravel, brown to tan, firm, moist              | 1.8          | NS             |
| <b><u>Heating Oil Release Cleanup - Clean Confirmation Soil Samples</u></b> |          |                                                                                                                                                                                       |              |                |
| <b>SS-1</b>                                                                 | 12/3/15  | Collected from the W/SW sidewall approximately 1 foot above floor level<br>Medium sand, brown, loose, moist                                                                           | 2            | VSS            |

**Table 1. Soil Sample Descriptions - Aloha Motel Property**

| <b>Sample ID</b> | <b>Date</b> | <b>Location and Description</b>                                                                                                      | <b>PID<br/>(ppm)</b> | <b>Sheen<br/>Test*</b> |
|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|
| <b>SS-2</b>      | 12/4/15     | Collected from the E/SE sidewall approximately 0.1 ft above the floor level<br>Fine to medium sand, olive gray, loose, moist         | 103.7                | SS                     |
| <b>SS-3</b>      | 12/4/15     | Collected from the E/NE sidewall approximately 0.1 ft above the floor level<br>Fine sand, olive/tan, loose, moist                    | 107.6                | SS                     |
| <b>SS-4</b>      | 12/4/15     | Collected from the excavation floor approximately 10 feet east of Tank #2<br>Fine sand (weathered sandstone), olive, loose, moist    | 73.2                 | SS                     |
| <b>SS-5</b>      | 12/4/15     | Collected from the W/NW sidewall approximately 0.25 ft above the floor level<br>Clayey fine sandy silt, olive tan, sticky, soft, wet | 44.4                 | SS                     |

\* NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

**Table 2. Soil Sample Laboratory Analytical Results - Aloha Motel Property**

| Sample ID                                                                   | Date     | NWTPH-Dx<br>Diesel Range<br>mg/kg | NWTPH-Dx<br>Oil Range<br>mg/kg |
|-----------------------------------------------------------------------------|----------|-----------------------------------|--------------------------------|
| MTCA Method A<br>Cleanup Levels:                                            |          | 2,000                             | 2,000                          |
| <b><u>Tank Pit #1 Sample Results</u></b>                                    |          |                                   |                                |
| Tank #1 Floor 5ft                                                           | 11/19/15 | ND(<25)                           | ND(<50)                        |
| Tank #1 East 2.5ft                                                          | 11/19/15 | ND(<25)                           | ND(<50)                        |
| Tank #1 South 3ft                                                           | 11/19/15 | ND(<25)                           | ND(<50)                        |
| <b><u>Tank Pit #2 Sample Results</u></b>                                    |          |                                   |                                |
| Tank #2 Floor 4.5ft                                                         | 11/19/15 | 3,800                             | ND(<250)                       |
| Sandstone 5.5ft TP#2                                                        | 11/20/15 | 730                               | ND(<50)                        |
| <b><u>Test Pit Sample Results</u></b>                                       |          |                                   |                                |
| TP-1 6ft                                                                    | 11/19/15 | 970                               | ND(<50)                        |
| TP-1 Sandstone 6.5ft                                                        | 11/19/15 | ND(<25)                           | ND(<50)                        |
| TP-2 Sandstone 4ft                                                          | 11/19/15 | ND(<25)                           | ND(<50)                        |
| TP-3 Sandstone 6ft                                                          | 11/19/15 | 1,600                             | ND(<50)                        |
| TP-3 7ft                                                                    | 11/19/15 | ND(<25)                           | ND(<50)                        |
| TP-4 8ft                                                                    | 11/20/15 | ND(<25)                           | ND(<50)                        |
| TP-5 7ft                                                                    | 11/20/15 | ND(<25)                           | ND(<50)                        |
| <b><u>Heating Oil Release Cleanup - Clean Confirmation Soil Samples</u></b> |          |                                   |                                |
| SS-1                                                                        | 12/3/15  | ND(<25)                           | ND(<50)                        |
| SS-2                                                                        | 12/4/15  | 720                               | ND(<50)                        |
| SS-3                                                                        | 12/4/15  | 1,300                             | ND(<50)                        |
| SS-4                                                                        | 12/4/15  | 340                               | ND(<50)                        |
| SS-5                                                                        | 12/4/15  | 380                               | ND(<50)                        |

ND - indicates analyte was Not Detected at level above reporting limit (shown in parentheses)

**BOLD** - indicates that the detected concentration exceeded the MTCA Method A target cleanup level

## **APPENDIX A**

### UST Site Check/Site Assessment Checklist



## SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: \_\_\_\_\_

County: \_\_\_\_\_

*This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.*

| I. UST FACILITY                                                                                                                                                                                  |                           | II. OWNER/OPERATOR INFORMATION                                                              |                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------|
| Facility Compliance Tag #:                                                                                                                                                                       |                           | Owner/Operator Name: <b>City of Bellingham</b>                                              |                                         |
| UST ID #:                                                                                                                                                                                        |                           | Business Name:                                                                              |                                         |
| Site Name: <b>Aloha Motel</b>                                                                                                                                                                    |                           | Address: <b>210 Lottie Street</b>                                                           |                                         |
| Site Address: <b>315 N. Samish Way</b>                                                                                                                                                           |                           | City: <b>Bellingham</b>                                                                     | State: <b>WA</b> Zip: <b>98225</b>      |
| City: <b>Bellingham, WA</b>                                                                                                                                                                      |                           | Phone:                                                                                      |                                         |
| Phone:                                                                                                                                                                                           |                           | Email:                                                                                      |                                         |
| III. CERTIFIED SITE ASSESSOR                                                                                                                                                                     |                           |                                                                                             |                                         |
| Service Provider Name: <b>Thomas A. Davis</b>                                                                                                                                                    |                           | Company Name: <b>Whatcom Environmental Services</b>                                         |                                         |
| Cell Phone: 253-906-6648                                                                                                                                                                         |                           | Email: <a href="mailto:tdavis@whatcomenvironmental.com">tdavis@whatcomenvironmental.com</a> |                                         |
| Address: 228 E. Champion St. #101                                                                                                                                                                |                           |                                                                                             |                                         |
| Certification #: <b>8190774</b>                                                                                                                                                                  | Exp. Date: <b>1/16/17</b> | City: <b>Bellingham</b>                                                                     | State: <b>WA</b> Zip: <b>98229</b>      |
| IV. TANK INFORMATION                                                                                                                                                                             |                           |                                                                                             |                                         |
| TANK ID                                                                                                                                                                                          | TANK CAPACITY             | LAST SUBSTANCE STORED                                                                       | DATE SITE CHECK OR ASSESSMENT CONDUCTED |
| Tank #1                                                                                                                                                                                          | 450 gallons               | Heating Oil                                                                                 | 11/19/15                                |
| Tank #2                                                                                                                                                                                          | 700 gallons               | Heating Oil                                                                                 | 11/19/15                                |
|                                                                                                                                                                                                  |                           |                                                                                             |                                         |
|                                                                                                                                                                                                  |                           |                                                                                             |                                         |
|                                                                                                                                                                                                  |                           |                                                                                             |                                         |
| V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)                                                                                                                                  |                           |                                                                                             |                                         |
| <input checked="" type="checkbox"/> Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).                                                        |                           |                                                                                             |                                         |
| <input type="checkbox"/> Release investigation following a failed tank and/or line tightness test.                                                                                               |                           |                                                                                             |                                         |
| <input type="checkbox"/> Release investigation following discovery of contaminated soil and/or groundwater.                                                                                      |                           |                                                                                             |                                         |
| <input type="checkbox"/> Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.                                                              |                           |                                                                                             |                                         |
| <input type="checkbox"/> UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water). |                           |                                                                                             |                                         |
| <input type="checkbox"/> Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.                                                                                   |                           |                                                                                             |                                         |
| <input type="checkbox"/> Other (describe):                                                                                                                                                       |                           |                                                                                             |                                         |

## VI. CHECKLIST

The site assessor must check each of the following items and include it in the report.  
Sections referenced below can be found in the Ecology publication  
*Guidance for Site Checks and Site Assessments for Underground Storage Tanks.*

|                                                                                                                                                                                                                                                                                                              | YES                                 | NO                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 1. The location of the UST site is shown on a vicinity map.                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2. A brief summary of information obtained during the site inspection is provided (Section 3.2)                                                                                                                                                                                                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. A summary of UST system data is provided (Section 3.1)                                                                                                                                                                                                                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4. The soils characteristics at the UST site are described. (Section 5.2)                                                                                                                                                                                                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 5. Is there any apparent groundwater in the tank excavation?                                                                                                                                                                                                                                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6. A brief description of the surrounding land use is provided. (Section 3.1)                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8. The following items are provided in one or more sketches:                                                                                                                                                                                                                                                 |                                     |                                     |
| • Location and ID number for all field samples collected                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| • If applicable, groundwater samples are distinguished from soil samples <span style="float: right;">N/A</span>                                                                                                                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            |
| • Location of samples collected from stockpiled excavated soil <span style="float: right;">N/A</span>                                                                                                                                                                                                        | <input type="checkbox"/>            | <input type="checkbox"/>            |
| • Tank and piping locations and limits of excavation pit                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| • Adjacent structures and streets                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| • Approximate locations of any on-site and nearby utilities                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)                                                                                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded. | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 11. Any factors that may have compromised the quality of the data or validity of the results are described.                                                                                                                                                                                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.                                                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

## VII. REQUIRED SIGNATURES

*Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.*

Thomas A. Davis

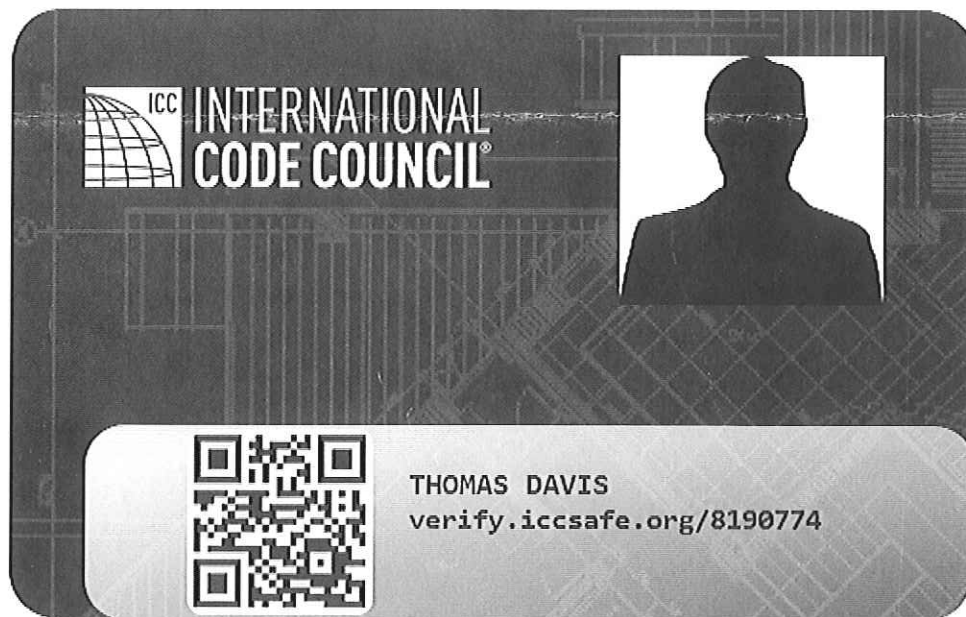
Print or Type Name



Signature of Certified Site Assessor

12/10/2015

Date



**Certified Professional Information:**

**Last, First MI: DAVIS,THOMAS A**

**Certified under this name: THOMAS A DAVIS**

**City, State Zip: BELLINGHAM, WA 98225**

**Certification Type(s): Washington State Site  
Assessment(expires 01/16/2017)**

## **APPENDIX B**

### Test Pit Logs

| Test Pit Log                                                                                                                                                                   |            |                                                                                                                                      |       |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| Project: COB Aloha Motel Property UST<br>Client: City Of Bellingham<br>Test Pit Number: TP-1<br>Location: SW corner of southern building footprint<br>Date Completed: 11/19/15 |            | Sheet: 1 of 1<br>Excavated by: JT Muenscher<br>Logged by: Thom Davis (WES)<br>First Encountered Water: N/A<br>Total Depth: ~6 ft bgs |       |        |
| Depth/Description                                                                                                                                                              | Blow Count | PID (ppm)                                                                                                                            | Sheen | Sample |
| 0 to 3.5 ft bgs: Medium to coarse sand with minor gravel, loose, wet                                                                                                           |            | 6                                                                                                                                    | NS    |        |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |
| 3.5 to 4.5 ft bgs: Medium to fine sand with minor gravel, brown, loose, wet                                                                                                    |            | <5                                                                                                                                   | VSS   |        |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |
| 4.5 to 6 ft bgs: Medium sand with weathered sandstone, olive gray, loose, moist                                                                                                |            | 150                                                                                                                                  | MS    | 6 ft   |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |
| 6.0-6.5 ft bgs: Sandstone, brown, hard, dry                                                                                                                                    |            | 4.8                                                                                                                                  | NS    | 6.5 ft |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |
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|                                                                                                                                                                                |            |                                                                                                                                      |       |        |

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

| Test Pit Log                                                                                                                                                                   |            |                                                                                                                                      |       |        |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--|--|
| Project: COB Aloha Motel Property UST<br>Client: City of Bellingham<br>Test Pit Number: TP-2<br>Location: SE corner of southern building footprint<br>Date Completed: 11/19/15 |            | Sheet: 1 of 1<br>Excavated by: JT Muenscher<br>Logged by: Thom Davis (WES)<br>First Encountered Water: N/A<br>Total Depth: ~4 ft bgs |       |        |  |  |
| Depth/Description                                                                                                                                                              | Blow Count | PID (ppm)                                                                                                                            | Sheen | Sample |  |  |
| 0 to 3.5 ft bgs: Medium to coarse sand with minor gravel, loose, wet                                                                                                           |            | <1                                                                                                                                   | NS    | 4 ft   |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
| 3.5 to 4 ft bgs: Medium to fine sand with minor gravel, brown, loose, wet                                                                                                      |            | ~2                                                                                                                                   | NS    |        |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
| 4 ft bgs: Sandstone, brown, hard, moist                                                                                                                                        |            | 2.3                                                                                                                                  | NS    |        |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
|                                                                                                                                                                                |            |                                                                                                                                      |       |        |  |  |
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| WHATCOM ENVIRONMENTAL SERVICES INC.                                                                                                                                            |            |                                                                                                                                      |       |        |  |  |
| www.whatcomenvironmental.com                                                                                                                                                   |            |                                                                                                                                      |       |        |  |  |

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

| <h1 style="text-align: center;">Test Pit Log</h1>                                                                                                                                                                                                  |            |           |                                                                                                                                      |        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|--------|--|
| Project: COB Aloha Motel Property UST<br>Client: City of Bellingham<br>Test Pit Number: TP-3<br>Location: NE side of the southern building footprint<br>Date Completed: 11/19/15                                                                   |            |           | Sheet: 1 of 1<br>Excavated by: JT Muenscher<br>Logged by: Thom Davis (WES)<br>First Encountered Water: N/A<br>Total Depth: ~7 ft bgs |        |  |
| Depth/Description                                                                                                                                                                                                                                  | Blow Count | PID (ppm) | Sheen                                                                                                                                | Sample |  |
| 0 to 3.5 ft bgs: Medium to coarse sand with gravel loose, moist                                                                                                                                                                                    |            | 2         | NS                                                                                                                                   |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
| 3.5 to 4.5 ft bgs: Medium to fine sand with minor gravel, brown, loose, very moist                                                                                                                                                                 |            | 1.8       | NS                                                                                                                                   |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
| 4.5 to 6 ft bgs: Silty fine to medium sand, sandstone chunks, olive gray, loose, moist                                                                                                                                                             |            | 4         | VSS                                                                                                                                  |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
| 6 ft bgs: Fractured sandstone, dark gray, hard, moist - surface dips towards the north encountered at 4 feet bgs on south side of test pit-3 and 6 feet bgs in the center. Sandstone was not encountered at 7 feet bgs on the north end of the pit |            | 138       | HS                                                                                                                                   | 6 ft   |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
| 7 ft bgs: (north end of test pit) Silty sand, dark gray, loose, moist                                                                                                                                                                              |            | 10.5      | SS                                                                                                                                   | 7 ft   |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
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|                                                                                                                                                                                                                                                    |            |           |                                                                                                                                      |        |  |
| <b>WHATCOM ENVIRONMENTAL SERVICES INC.</b>                                                                                                                                                                                                         |            |           |                                                                                                                                      |        |  |
| <a href="http://www.whatcomenvironmental.com">www.whatcomenvironmental.com</a>                                                                                                                                                                     |            |           |                                                                                                                                      |        |  |

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

[illegible]

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen



# Test Pit Log

Project: COB Aloha Motel Property UST  
 Client: City of Bellingham  
 Test Pit Number: TP-5  
 Location: Approximately 50 ft SE of Tank Pit #2 in grass  
 Date Completed: 11/20/15

Sheet: 1 of 1  
 Excavated by: JT Muenschner  
 Logged by: Thom Davis (WES)  
 First Encountered Water: N/A  
 Total Depth: ~7 ft bgs

| Depth/Description                                                                                   | Blow Count | PID (ppm) | Sheen | Sample |
|-----------------------------------------------------------------------------------------------------|------------|-----------|-------|--------|
| 0 to 1 feet bgs: Organic fine sandy silt, dark brown, loose to slightly firm, moist to slightly wet |            | <1        | NS    |        |
|                                                                                                     |            | <1        | VSS   |        |
| 1 to 3 ft bgs: Fine sandy silt, brown, loose, moist                                                 |            |           |       |        |
| 3 to 7 ft bgs: Fine sandy clayey silt with minor gravel, tan to brown, firm, moist                  |            | 1.8       | NS    | 7 ft   |
|                                                                                                     |            |           |       |        |
|                                                                                                     |            |           |       |        |
|                                                                                                     |            |           |       |        |
|                                                                                                     |            |           |       |        |
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|                                                                                                     |            |           |       |        |

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## **APPENDIX C**

Original Laboratory Analytical Data



November 30, 2015

Mr. Thom Davis  
Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225

Dear Mr. Davis,

On November 20th, 10 samples were received by our laboratory and assigned our laboratory project number EV15110149. The project was identified as your Aloha Motel UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110149             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-01          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 11:15:00 AM |
| CLIENT SAMPLE ID | Tank #2 Floor 4.5ft                                                                         | WDOE ACCREDITATION: | C601                   |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 3800    | 120              | 5               | MG/KG | 11/25/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 250              | 5               | MG/KG | 11/25/2015    | EBS         |

| SURROGATE       | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------------|----------|------|---------------|-------------|
| C25 5X Dilution | NWTPH-DX | 108  | 11/25/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110149             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-02          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 11:50:00 AM |
| CLIENT SAMPLE ID | Tank #1 Floor 5ft                                                                           | WDOE ACCREDITATION: | C601                   |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 105  | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110149             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-03          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 11:55:00 AM |
| CLIENT SAMPLE ID | Tank #1 East 2.5ft                                                                          | WDOE ACCREDITATION: | C601                   |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 127  | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110149             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-04          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 12:00:00 PM |
| CLIENT SAMPLE ID | Tank #1 South 3ft                                                                           | WDOE ACCREDITATION: | C601                   |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 69.2 | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110149             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-05          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 12:50:00 PM |
| CLIENT SAMPLE ID | Sandstone 5.5ft TP-2                                                                        | WDOE ACCREDITATION: | C601                   |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 730     | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 85.8 | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.





# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110149            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-06         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 1:20:00 PM |
| CLIENT SAMPLE ID | TP-1 6ft                                                                                    | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 970     | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 82.9 | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110149            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-07         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 1:25:00 PM |
| CLIENT SAMPLE ID | TP-1 Sandstone 6.5ft                                                                        | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 72.6 | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110149            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-08         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 1:45:00 PM |
| CLIENT SAMPLE ID | TP-2 Sandstone 4ft                                                                          | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/24/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/24/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 80.1 | 11/24/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110149            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-09         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 2:15:00 PM |
| CLIENT SAMPLE ID | TP-3 Sandstone 6ft                                                                          | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 1600    | 50               | 2               | MG/KG | 11/30/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 100              | 2               | MG/KG | 11/30/2015    | EBS         |

| SURROGATE       | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------------|----------|------|---------------|-------------|
| C25 2X Dilution | NWTPH-DX | 97.4 | 11/30/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110149            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110149-10         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/20/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/19/2015 2:40:00 PM |
| CLIENT SAMPLE ID | TP-3 7ft                                                                                    | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|------------------|----------|---------|---------------------|--------------------|-------|------------------|----------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25                  | 1                  | MG/KG | 11/24/2015       | EBS            |
| TPH-Oil Range    | NWTPH-DX | U       | 50                  | 1                  | MG/KG | 11/24/2015       | EBS            |

| SURROGATE | METHOD   | %REC | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|-----------|----------|------|------------------|----------------|
| C25       | NWTPH-DX | 78.3 | 11/24/2015       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225  
DATE: 11/30/2015  
ALS SDG#: EV15110149  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Thom Davis  
CLIENT PROJECT: Aloha Motel UST

# LABORATORY BLANK RESULTS

## MB-112415S - Batch 99348 - Soil by NWTPH-DX

| ANALYTE          | METHOD   | RESULTS | QUAL | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|------------------|----------|---------|------|-------|---------------------|------------------|----------------|
| TPH-Diesel Range | NWTPH-DX | U       |      | MG/KG | 25                  | 11/24/2015       | EBS            |
| TPH-Oil Range    | NWTPH-DX | U       |      | MG/KG | 50                  | 11/24/2015       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225  
DATE: 11/30/2015  
ALS SDG#: EV15110149  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Thom Davis  
CLIENT PROJECT: Aloha Motel UST

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 99348 - Soil by NWTPH-DX

| SPIKED COMPOUND        | METHOD   | %REC | RPD | QUAL | ANALYSIS DATE | ANALYSIS BY |
|------------------------|----------|------|-----|------|---------------|-------------|
| TPH-Diesel Range - BS  | NWTPH-DX | 96.7 |     |      | 11/24/2015    | EBS         |
| TPH-Diesel Range - BSD | NWTPH-DX | 94.0 | 3   |      | 11/24/2015    | EBS         |

APPROVED BY

Laboratory Director



ALS Environmental  
8620 Holly Drive, Suite 100  
Everett, WA 98208  
Phone (425) 356-2600  
Fax (425) 356-2626  
http://www.alsglobal.com

## Chain Of Custody/ Laboratory Analysis Request

ALS Job#

(Laboratory Use Only)

EVS110149

Date 11/19/15 Page 1 of 1

| PROJECT ID: Aloha Motel UST             |          |      |      | ANALYSIS REQUESTED |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 | OTHER (Specify) |        |        |     |                        |             |     |          |      |       |                      |                             |
|-----------------------------------------|----------|------|------|--------------------|------------|----------|----------|------------------|-----------------------------------|----------------------------------------|-----------------------------------|------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------|-----------------|--------|--------|-----|------------------------|-------------|-----|----------|------|-------|----------------------|-----------------------------|
| REPORT TO COMPANY: Whetstone Env. Sues. |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| PROJECT MANAGER: Thom                   |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| ADDRESS: 228 E Champion #101            |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| B'ham, WA 98225                         |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| PHONE:                                  |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| P.O. #:                                 |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| INVOICE TO COMPANY:                     |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| ATTENTION:                              |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| ADDRESS:                                |          |      |      |                    |            |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       |                      |                             |
| SAMPLE I.D.                             | DATE     | TIME | TYPE | LAB#               | NWTPH-HCID | NWTPH-DX | NWTPH-GX | MTBE by EPA-8021 | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM | PCB Pesticides by EPA 8081/8082 | Metals-MTCA-5   | RCRA-8 | Pt Pol | TAL | Metals Other (Specify) | TCLP-Metals | VOA | Semi-Vol | Pest | Herbs | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
| 1. Tank #2 Floor 4.5ft                  | 11/19/15 | 1115 | Soil | 1                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 2. Tank #1 Floor 5ft                    |          | 1150 |      | 2                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 3. Tank #1 East 2.5ft                   |          | 1155 |      | 3                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 4. Tank #1 South 3ft                    |          | 1200 |      | 4                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 5. Sandstone 5.5ft TP-2                 |          | 1250 |      | 5                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 6. TP-1 6ft                             |          | 1320 |      | 6                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 7. TP-1 Sandstone 6.5ft                 |          | 1325 |      | 7                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 8. TP-2 Sandstone 4ft                   |          | 1345 |      | 8                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 9. TP-3 Sandstone 6ft                   |          | 1415 |      | 9                  | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |
| 10. TP-3 7ft                            |          | 1440 |      | 10                 | X          |          |          |                  |                                   |                                        |                                   |                              |                                            |                                                        |                                 |                 |        |        |     |                        |             |     |          |      |       | 1                    |                             |

### SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time)

1. Relinquished By: [Signature] WES 11/19/15 @ 1530  
Received By: [Signature] ALS 11/20/15 10:30  
2. Relinquished By: \_\_\_\_\_  
Received By: \_\_\_\_\_

TURNAROUND REQUESTED in Business Days\*  
Organic, Metals & Inorganic Analysis

Specify: ☐ 1 ☐ 2 ☐ 3 ☐ 5 ☐ 10  
Standard

Fuels & Hydrocarbon Analysis

☒ 5 ☐ 3 ☐ 1  
SAME DAY

\*Turnaround request less than standard may incur Rush Charges





November 30, 2015

Mr. Thom Davis  
Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225

Dear Mr. Davis,

On November 23rd, 2 samples were received by our laboratory and assigned our laboratory project number EV15110164. The project was identified as your Aloha Motel UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15110164            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110164-01         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/23/2015            |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/20/2015 9:45:00 AM |
| CLIENT SAMPLE ID | TP-5 7ft                                                                                    | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|------------------|----------|---------|---------------------|--------------------|-------|------------------|----------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25                  | 1                  | MG/KG | 11/25/2015       | EBS            |
| TPH-Oil Range    | NWTPH-DX | U       | 50                  | 1                  | MG/KG | 11/25/2015       | EBS            |

| SURROGATE | METHOD   | %REC | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|-----------|----------|------|------------------|----------------|
| C25       | NWTPH-DX | 114  | 11/25/2015       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                                             |                     |                        |
|------------------|---------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 11/30/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15110164             |
|                  |                                                                                             | ALS SAMPLE#:        | EV15110164-02          |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 11/23/2015             |
| CLIENT PROJECT:  | Aloha Motel UST                                                                             | COLLECTION DATE:    | 11/20/2015 11:30:00 AM |
| CLIENT SAMPLE ID | TP-4 8FT                                                                                    | WDOE ACCREDITATION: | C601                   |

**SAMPLE DATA RESULTS**

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 11/25/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 11/25/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 86.4 | 11/25/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225  
DATE: 11/30/2015  
ALS SDG#: EV15110164  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Thom Davis  
CLIENT PROJECT: Aloha Motel UST

# LABORATORY BLANK RESULTS

## MB-112515S - Batch 99346 - Soil by NWTPH-DX

| ANALYTE          | METHOD   | RESULTS | QUAL | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|------------------|----------|---------|------|-------|---------------------|------------------|----------------|
| TPH-Diesel Range | NWTPH-DX | U       |      | MG/KG | 25                  | 11/25/2015       | EBS            |
| TPH-Oil Range    | NWTPH-DX | U       |      | MG/KG | 50                  | 11/25/2015       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225  
DATE: 11/30/2015  
ALS SDG#: EV15110164  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Thom Davis  
CLIENT PROJECT: Aloha Motel UST

# LABORATORY CONTROL SAMPLE RESULTS

## ALS Test Batch ID: 99346 - Soil by NWTPH-DX

| SPIKED COMPOUND        | METHOD   | %REC | RPD | QUAL | ANALYSIS DATE | ANALYSIS BY |
|------------------------|----------|------|-----|------|---------------|-------------|
| TPH-Diesel Range - BS  | NWTPH-DX | 98.0 |     |      | 11/25/2015    | EBS         |
| TPH-Diesel Range - BSD | NWTPH-DX | 101  | 3   |      | 11/25/2015    | EBS         |

APPROVED BY

Laboratory Director



## ALS Job# (Laboratory Use Only)

Date 11-20-15 Page 1 Of 1

## SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: ~~Wally Kurt~~ — WES 11/20/15 @ 1:50  
Received By: Wally Kurt, ACS, 11/23/15, 10:41 am  
Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days\*  
OTHER: Organic, Metals & Inorganic Analysis

Standard  
Fuels & Hydrocarbon Analysis

## Fuels & Hydrocarbon Analysis

|   |   |   |          |
|---|---|---|----------|
| 5 | 3 | 1 | SAME DAY |
|---|---|---|----------|

\*Turnaround request less than standard may incur Rush Charges



December 9, 2015

Mr. Thom Davis  
Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225

Dear Mr. Davis,

On December 7th, 5 samples were received by our laboratory and assigned our laboratory project number EV15120058. The project was identified as your COB: Aloha Motel UST. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 12/9/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15120058            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15120058-01         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 12/07/2015            |
| CLIENT PROJECT:  | COB: Aloha Motel UST                                                                        | COLLECTION DATE:    | 12/3/2015 10:50:00 AM |
| CLIENT SAMPLE ID | SS-1                                                                                        | WDOE ACCREDITATION: | C601                  |

## SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | U       | 25               | 1               | MG/KG | 12/08/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 12/08/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 93.6 | 12/08/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.





# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                      |
|------------------|---------------------------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 12/9/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15120058           |
|                  |                                                                                             | ALS SAMPLE#:        | EV15120058-02        |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 12/07/2015           |
| CLIENT PROJECT:  | COB: Aloha Motel UST                                                                        | COLLECTION DATE:    | 12/4/2015 9:30:00 AM |
| CLIENT SAMPLE ID | SS-2                                                                                        | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 720     | 25               | 1               | MG/KG | 12/08/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 12/08/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 111  | 12/08/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                      |
|------------------|---------------------------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 12/9/2015            |
|                  |                                                                                             | ALS JOB#:           | EV15120058           |
|                  |                                                                                             | ALS SAMPLE#:        | EV15120058-03        |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 12/07/2015           |
| CLIENT PROJECT:  | COB: Aloha Motel UST                                                                        | COLLECTION DATE:    | 12/4/2015 9:45:00 AM |
| CLIENT SAMPLE ID | SS-3                                                                                        | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 1300    | 50               | 2               | MG/KG | 12/08/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 100              | 2               | MG/KG | 12/08/2015    | EBS         |

| SURROGATE       | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------------|----------|------|---------------|-------------|
| C25 2X Dilution | NWTPH-DX | 104  | 12/08/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 12/9/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15120058            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15120058-04         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 12/07/2015            |
| CLIENT PROJECT:  | COB: Aloha Motel UST                                                                        | COLLECTION DATE:    | 12/4/2015 10:00:00 AM |
| CLIENT SAMPLE ID | SS-4                                                                                        | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 340     | 25               | 1               | MG/KG | 12/08/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 12/08/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 80.8 | 12/08/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.



# CERTIFICATE OF ANALYSIS

|                  |                                                                                             |                     |                       |
|------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE:               | 12/9/2015             |
|                  |                                                                                             | ALS JOB#:           | EV15120058            |
|                  |                                                                                             | ALS SAMPLE#:        | EV15120058-05         |
| CLIENT CONTACT:  | Thom Davis                                                                                  | DATE RECEIVED:      | 12/07/2015            |
| CLIENT PROJECT:  | COB: Aloha Motel UST                                                                        | COLLECTION DATE:    | 12/4/2015 10:45:00 AM |
| CLIENT SAMPLE ID | SS-5                                                                                        | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE          | METHOD   | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|------------------|----------|---------|------------------|-----------------|-------|---------------|-------------|
| TPH-Diesel Range | NWTPH-DX | 380     | 25               | 1               | MG/KG | 12/08/2015    | EBS         |
| TPH-Oil Range    | NWTPH-DX | U       | 50               | 1               | MG/KG | 12/08/2015    | EBS         |

| SURROGATE | METHOD   | %REC | ANALYSIS DATE | ANALYSIS BY |
|-----------|----------|------|---------------|-------------|
| C25       | NWTPH-DX | 89.4 | 12/08/2015    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                                             |                                                                     |
|-----------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| CLIENT:         | Whatcom Environmental Svcs., Inc.<br>228 E. Champion St., Suite 101<br>Bellingham, WA 98225 | DATE: 12/9/2015<br>ALS SDG#: EV15120058<br>WDOE ACCREDITATION: C601 |
| CLIENT CONTACT: | Thom Davis                                                                                  |                                                                     |
| CLIENT PROJECT: | COB: Aloha Motel UST                                                                        |                                                                     |

**LABORATORY BLANK RESULTS**
**MB-120715S2 - Batch 99621 - Soil by NWTPH-DX**

| ANALYTE          | METHOD   | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|------------------|----------|---------|-------|---------------------|------------------|----------------|
| TPH-Diesel Range | NWTPH-DX | U       | MG/KG | 25                  | 12/08/2015       | EBS            |
| TPH-Oil Range    | NWTPH-DX | U       | MG/KG | 50                  | 12/08/2015       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.  
228 E. Champion St., Suite 101  
Bellingham, WA 98225  
DATE: 12/9/2015  
ALS SDG#: EV15120058  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Thom Davis  
CLIENT PROJECT: COB: Aloha Motel UST

# LABORATORY CONTROL SAMPLE RESULTS

## ALS Test Batch ID: 99621 - Soil by NWTPH-DX

| SPIKED COMPOUND        | METHOD   | %REC | RPD | QUAL | ANALYSIS DATE | ANALYSIS BY |
|------------------------|----------|------|-----|------|---------------|-------------|
| TPH-Diesel Range - BS  | NWTPH-DX | 103  |     |      | 12/08/2015    | EBS         |
| TPH-Diesel Range - BSD | NWTPH-DX | 103  | 0   |      | 12/08/2015    | EBS         |

APPROVED BY

Laboratory Director



## ALS Job# (Laboratory Use Only)

EVIS12058

Date 12/4/15 Page 1 Of 1

## SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

| SIGNATURES (Name, Company, Date, Time): |                                                                                                              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1. Relinquished By:                     |  WES<br>12/4/15 1400    |
| Received By:                            |  Andrew<br>12/7/15 1050 |
| 2. Relinquished By:                     |                                                                                                              |
| Received By:                            |                                                                                                              |

TURNAROUND REQUESTED in Business Days\*  
OTHER: Organic: Metals & Inorganic Analysis

Specify:

## Fuels and Hydrocarbon Analysis

**\*Turnaround request less than standard may incur Rush Charges**

## **APPENDIX D**

Cemex Certificate of Disposal





**Release of Liability/Certificate of Disposal**

**Cowden Inc, and their client;** are released from liability for the petroleum contaminated soil from the following site:

**Aloha Motel Site,  
315 Samish Way  
Bellingham WA.**

and transported to:

**CEMEX Soil Remediation Facility  
6300 Glenwood Ave.  
Everett WA 98203**

From 12/03/2015 through 12/07/2105

**A total of 157.58 tons of petroleum-contaminated soil** were transported to the above facility. The material was disposed of in the following manner:

**Thermal Desorption and Landfill for  
Reclamation**

Disposal of the contaminated debris was performed in accordance with all applicable federal, state, and local laws and regulations.

Signed:

Date: December 16, 2015

A handwritten signature in cursive script that reads "Larry W. Baker".

Larry W. Baker  
CEMEX USA.  
Operations Manager  
Soil Remediation Division