North Cascade Ford

PHASE II ENVIRONMENTAL SITE ASSESSMENT
NORTH CASCADE FORD INC.
116 WEST FERRY STREET
SEDRO WOOLLEY, WASHINGTON

prepared for:

Mr. Travis Coulter
North Cascade Ford Inc.
116 West Ferry Street
Sedro-Woolley, Washington 98284

March 14, 2012

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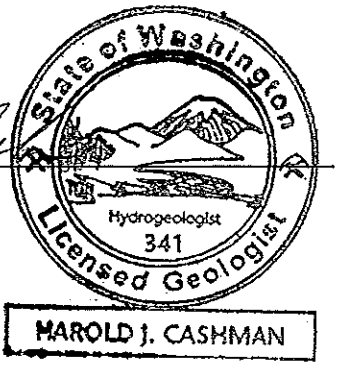

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1.0 INTRODUCTION

A Phase II Environmental Site Assessment (ESA) has been completed at the North Cascade Ford Inc. automobile dealership located at 116 West Ferry Street in Sedro Woolley, Washington, in general conformance with the scope and limitations of ASTM Practice E 1903-11 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

The statement of objectives of the Phase II ESA included investigation of subsurface soil and groundwater quality at the following locations:

- **Former Waste Oil Storage Area**
- **Former Above-Ground Oil Tank**
- **Former Automotive/Oil House**
- **Former Underground Storage Tank(s)**
- **Former Gasoline Service Station**
- **Former Railroad Depot/Coal Storage**

The Phase II Environmental Site Assessment was completed in order to investigate the subsurface soil and groundwater conditions at the above referenced sites which were identified as Recognized Environmental Conditions (RECs) in the Phase I ESA dated July 15, 2011 (Phase I Environmental Site Assessment: North Cascade Ford, 116 West Ferry Street, Sedro-Woolley, Washington).

This report summarizes the results of the site investigation work completed in November 2011. The investigation was conducted per the scope-of-work described in the Whatcom Environmental Services proposal to North Cascade Ford dated October 14, 2011. Nine soil borings were drilled at the site and soil and groundwater samples were collected in an attempt to determine if soil and/or groundwater contamination is located on the subject property at the locations identified in the Phase I ESA.

Soil borings were drilled and soil and groundwater samples were collected for laboratory analysis. Field screening observations and the laboratory analytical data indicate that past releases of petroleum products have impacted the soil and groundwater at the subject

property.

Soil and/or groundwater contamination was identified at concentrations exceeding the Model Toxic Control Act (MTCA) Method A target cleanup levels at the following locations:

- **Former Waste Oil Storage Area**
- **Former Above-Ground Oil Tank**
- **Former Underground Storage Tank(s)**
- **Former Gasoline Service Station**
- **Former Railroad Depot/Coal Storage**

2.0 BACKGROUND INFORMATION

This Phase II ESA was conducted for the light industrial property located at 116 West Ferry Street, approximately 1.2 miles north of the Skagit River, in Sedro-Woolley, Washington. The site location is shown on Figure 1.

2.1 Site Description and Features

The subject property is located in an area characterized by commercial and residential development. The subject property is currently used by an automobile dealership and repair center. The property is comprised of eight parcels and is located in the north half of the southwest quarter of Section 24 in Township 35 North, Range 4 East. The subject property encompasses approximately 3.4 acres.

The subject property is currently developed with two structures. The main structure located north of West Ferry Street is approximately 26,200 sq. ft. in area. Offices, a sales floor, and various automobile repair shops are located in the main structure. The other structure located south of West Ferry Street is approximately 2,205 sq. ft. in area. Offices are located in this structure. The remainder of the property is paved.

2.2 Adjacent Property Land Use

The layout of the subject property and adjoining properties is shown on Figure 2. The subject property is bordered on the north by a railroad and a fabricated metal producer. The subject property is bordered on the west by an automobile parts retailer. Residences and an electric power station are located to the south of the subject property. Retail shops and a gasoline service station are located to the east of the subject property, across Eastern Street.

2.3 Previous Investigations/Site History

A Phase I Environmental Site Assessment for the subject property was completed by Whatcom Environmental Services on July 15, 2011. The Phase I ESA revealed six areas within the subject property considered Recognized Environmental Conditions (RECs) warranting further investigation. The RECs identified in the Phase I ESA included:

- **Former Waste Oil Storage Area**: Waste oil was stored in the past in an above ground storage tank located on the north side of the main building. The tank was removed from the site prior to April 2003.

- **Former Above-Ground Oil Tank**: A 10,000 gallon above-ground oil tank was located on the north end of parcel P77451 in the early 1900s.

- **Former Automotive/Oil House**: Prior to the construction of the current automobile dealership, an automobile shop with an oil house was located in the center of the subject property. The location of the former oil house is under the current building.

- **Former Underground Storage Tank(s):** During the Phase I ESA site reconnaissance, two vent lines were observed on the southeastern exterior side of the main building, which is evidence of historical underground storage tanks. The Washington State UST database showed that by 1996 a tank which held leaded gasoline and a tank less than 1,100 gallons in size which held heating fuel were closed in place on the subject property. The date of closure was not recorded for either tank. No information on the condition of the tanks or soils at the time of the tank closure was available. It is unknown if these tanks correspond to the vent pipes observed during the site reconnaissance. An underground gasoline storage tank was observed on a 1953 Sanborn fire insurance map. Records indicating that it had been removed were not found. It is unclear if the tank shown on the map corresponds to the location of the vent pipes or the closed-in-place tanks.

- **Former Gasoline Service Station:** A gasoline station was located on parcel P77410 from the 1920s to at least the 1950s, possibly as late as the 1980s.

- **Former Railroad Depot/Coal Storage**: Coal was stored on the northern and southern portions of parcel P109239 as part of railroad and fuel transfer operations in the early to mid-1900s.

Additional information regarding site geology, hydrogeology and adjacent land use is provided in the Phase I ESA (WES, 2011). No other previous investigations are known to have been conducted at the site.

3.0 WORK PERFORMED AND RATIONALE

On November 15, 2011, Whatcom Environmental Services performed a subsurface investigation at the subject property. The subsurface investigation included the drilling of nine soil borings and field screening and collection of soil and water samples which were analyzed at a Washington Department of Ecology certified laboratory. Boring locations were chosen based on the location of the RECs identified in the Phase I ESA (WES, 2011).

3.1 Objective of Assessment

The main objective of the work performed during the Phase II ESA is to assist the User (North Cascade Ford Inc.) to obtain sound, scientifically valid data concerning actual property conditions related to the RECs identified in the Phase I ESA report (WES, 2011). The information provided herein will provide the User with additional information to determine its choices of action in connection with the following objectives: (1) assess whether there has been a release of hazardous substances to soil or groundwater at the subject property at the locations identified in the Phase I ESA, (2) provide information relevant to identifying, defining, and evaluating property conditions associated with target analytes that may pose risk to human health or the environment at the locations identified in the Phase I ESA, and (3) provide information relevant to evaluating and allocating business environmental risk in transactional and contractual contexts, including transferring, financing, and insuring the subject property.

3.2 Exploration and Sampling Methods

In an attempt to collect data concerning the actual property conditions, as well as characterize any other contamination related to the property, nine soil borings were drilled by Cascade Drilling using a direct-push hydraulic and percussion drive-point sampling system (GeoProbe) on November 15, 2011. Subsurface utilities were located prior to commencing drilling using both public and private location services. Each soil boring location was hand excavated to 5 feet below ground surface (bgs) using a hand auger to ensure the boring location was free of underground utilities. Soil boring locations are shown on Figure 2.

The sampling equipment was decontaminated prior to drilling each test hole. The majority of the borings were continuously cored to a depth of 15 feet bgs. Soil cores were logged in the field and soil descriptions generally followed ASTM D 2487 'Unified Soil Classification

System' procedures for description and identification of soils. The soil cores were field screened for petroleum products using a photoionization detector (PID) to evaluate organic vapor concentrations and by conducting sheen tests. Immediately after the soil cores were described a portion of the sample was sheen tested and the remainder of the sample was placed in labeled re-sealable bags. Sheen test results were recorded as: NS – no sheen, VSS – very slight sheen, SS – slight sheen, MS – moderate sheen, and HS – heavy sheen. The PID was inserted into the re-sealable bag and a headspace reading was measured and organic vapor concentrations (in parts per million) were recorded on the borelogs. Soil samples were collected in containers provided by the laboratory and stored in a cooler with ice. Groundwater samples were collected by inserting polyethylene tubing into the probe casing and withdrawing water using a peristaltic pump. Groundwater samples were collected in preserved bottles provided by the lab.

The test holes were backfilled to the surface using bentonite-based grout materials specified in WAC 173-160. Soil sample descriptions and field screening results are summarized in Table 1. Soil and groundwater sampling results are discussed below in Section 4.0.

3.3 Soil and Groundwater Screening Levels

The soil and groundwater screening levels for the Phase II ESA investigation were established for unrestricted land use in accordance with WAC 173-340. There are two options for establishing soil cleanup levels for unrestricted land use under the Model Toxics Control Act (MTCA) - Method A and Method B.

MTCA Method A target cleanup levels for soil are provided in WAC 173-340, Table 740-1, and for groundwater in Table 720-1. MTCA Method B cleanup levels are based on the reasonable maximum exposure expected to occur at the site and were developed to evaluate direct contact, leaching, and vapor pathways using equations provided in WAC 173-340.

The soil and water data collected during the Phase II ESA investigation were compared to the applicable MTCA Method A target cleanup levels. The MTCA Method A cleanup levels for soil are shown on Tables 2 through 5, and the MTCA Method A cleanup levels for groundwater are shown on Table 6. MTCA Method B cleanup levels were not evaluated as part of the Phase II ESA investigation.

3.4 Laboratory Analytical Methods

Soil and groundwater samples collected from the site were analyzed for varying constituents determined by the specific contaminants likely released by the RECs identified in the Phase I ESA (WES, 2011). Samples were analyzed for diesel and lube-oil range total petroleum hydrocarbons (TPH) using Method NWTPH-Dx; gasoline range TPH using Method NWTPH-Gx; benzene, toluene, ethylbenzene, and total xylenes (BTEX) constituents using EPA Method 8021; polychlorinated biphenyls (PCBs) using EPA Method 8082; arsenic, cadmium, chromium, and lead using EPA Method 6020; mercury using EPA Method 7471 and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) using EPA Method 8270 SIM.

One soil sample was collected from each soil boring at a depth likely to contain significant levels of contamination as determined by field screening results. Water samples were collected from soil borings as warranted by site conditions.

- **Former Waste Oil Storage Area (Boring B-1)**: One soil sample was collected and analyzed for gasoline and diesel range TPH, BTEX, cPAHs, PCBs, and metals. One groundwater sample was collected and analyzed for gasoline and diesel range TPH and BTEX constituents.

- **Former Above-ground Oil Tank (Boring B-2)**: One soil sample was collected and analyzed for gasoline and diesel range TPH, BTEX, cPAHs, PCBs, and metals. One groundwater sample was collected and analyzed for gasoline and diesel range TPH and BTEX constituents.

- **Former Automotive/Oil House (Boring B-3):** One soil sample was collected and analyzed for gasoline and diesel range TPH and BTEX constituents.

- **Former Underground Storage Tank(s) (Borings B-4 and B-5):** One soil sample was collected from each boring and analyzed for gasoline and diesel range TPH, BTEX, and metals. One groundwater sample was collected from each boring and analyzed for gasoline and diesel range TPH and BTEX constituents.

- **Former Gasoline Service Station (Borings B-6 and B-7):** One soil sample was collected from boring B-6 and analyzed for gasoline and diesel range TPH and BTEX constituents. One soil sample was collected from boring B-7 and analyzed for gasoline and diesel range TPH, BTEX constituents, and metals. One groundwater sample was collected from B-7 and analyzed for gasoline and diesel range TPH and BTEX constituents.

- **Former Railroad Depot/Coal Storage (Borings B-8 and B-9):** One soil sample was collected from each boring and analyzed for cPAHs.

Soil and groundwater sampling results are discussed below in Section 4.0.

4.0 INVESTIGATION RESULTS

Nine soil borings completed at the subject property provide information related to the subsurface conditions present at the subject property. The Phase II ESA investigation described herein has provided sound, scientifically valid data concerning actual property conditions related to the RECs identified in the Phase I ESA report (WES, 2011).

The typical soil profile at the subject property consists of sandy gravel fill material from 2 inches to approximately 2 feet bgs, and silt or silty fine sand with occasional woody debris from approximately 2 feet to 15 feet bgs. Groundwater was typically encountered at 5 to 6 feet bgs.

The nine soil boring locations are shown on Figure 2. Soil sample descriptions are included in Table 1. Soil samples collected from seven of the nine borings completed during the subsurface investigation (B-1, B-2, B-4, B-5, B-7, B-8, and B-9) contained concentrations of one or more contaminants which exceeded the respective MTCA Method A target cleanup levels for unrestricted land use. Soil sample laboratory analytical results are provided in Tables 2 through 5. The original soil laboratory analytical data report is included in Appendix B.

Groundwater samples were collected from five borings (B-1, B-2, B-4, B-5, and B-7). The sample collected from boring B-2 contained gasoline range, diesel range and lube oil range TPH at concentrations which exceeded the MTCA Method A cleanup levels. The sample collected from boring B-7 contained gasoline range TPH at a concentration which exceeded the MTCA Method A cleanup level. Groundwater analytical results are provided in Table 6. The original groundwater laboratory analytical data report is included in Appendix C.

4.1 Waste Oil Storage Area (Boring B-1)

The soil cores collected from Boring B-1 drilled near the location of the former waste oil tank yielded field screening evidence of petroleum contamination. Organic vapor concentrations and oily sheens increased from 39 ppm with a slight sheen near the ground surface to 284 ppm with a heavy sheen at approximately 5 feet bgs. By approximately 10 feet bgs no organic vapors or sheens were detected. The soil borelog for Boring B-1 is included in Appendix A.

The soil sample collected from Boring B-1 at a depth of 5 feet bgs showed evidence of petroleum contamination. Soil located at the former waste oil storage area has been impacted by gasoline, diesel, and lube-oil range TPH at relatively high concentrations. Gasoline range TPH was detected at a concentration of 810 mg/kg, which exceeds the MTCA Method A target cleanup level of 100 mg/kg. Diesel range TPH was detected at a concentration of 16,000 mg/kg, which exceeds the cleanup level of 2,000 mg/kg. Lube-oil range TPH was detected at a concentration of 32,000 mg/kg, which exceeds the cleanup level of 2,000 mg/kg. Carcinogenic PAHs were detected at a concentration of 0.55 mg/kg, which exceeds the MTCAT Method A target cleanup level of 0.10 mg/kg. PCB 1260 was detected at a concentration of 1.3 mg/kg, which exceeds the MTCA Method A target cleanup level of 1.0 mg/kg. Lead was detected at a concentration of 520 mg/kg, which exceeds the MTCA Method A cleanup level of 250 mg/kg (Tables 2-5). The original soil laboratory data report is included in Appendix B.

A groundwater sample collected from Boring B-1 showed evidence of contamination from gasoline and diesel range TPH. Both constituents were detected at concentrations below the MTCA Method A cleanup levels (Table 6). The original groundwater laboratory data report is included in Appendix C.

4.2 Former Above-Ground Oil Tank (Boring B-2)

The soil cores collected from Boring B-2 drilled near the location of the former above-ground oil tank yielded field screening evidence of petroleum contamination. Significant organic vapor concentrations and oily sheens were not encountered until approximately 5 feet bgs. The soil cores collected from 5 to 15 feet bgs yielded organic vapor detections up to 227 ppm and heavy sheens. The soil borelog for Boring B-2 is included in Appendix A.

The soil sample collected from Boring B-2 at a depth of 14 feet showed evidence of petroleum contamination. Gasoline range TPH was detected at a concentration of 750 mg/kg, which exceeds the MTCA Method A target cleanup level of 100 mg/kg. Diesel range TPH was detected at a concentration of 2,400 mg/kg, which exceeds the cleanup level of 2,000 mg/kg L (Tables 2-5). The original soil laboratory data report is included in Appendix B.

A groundwater sample collected from Boring B-2 at the former above-ground oil tank location contained relatively high concentrations of gasoline, diesel, and lube-oil range TPH. Gasoline range TPH was detected at a concentration of 1,400 ug/L, which exceeds the MTCA Method A target cleanup level of 1,000 ug/L. Diesel range TPH was detected at a concentration of 13,000 ug/L, which exceeds the cleanup level of 500 ug/L. Lube-oil range TPH was detected

at a concentration of 8,600 ug/L, which exceeds the cleanup level of 500 ug/L (Table 6). The original groundwater laboratory data report is included in Appendix C.

4.3 Former Automotive/Oil House (Boring B-3)

The soil cores collected from Boring B-3 drilled near the location of the former automotive/oil house did not yield field screening evidence of petroleum contamination. No organic vapors or oily sheens were encountered to a depth of approximately 15 feet bgs. The soil borelog for Boring B-3 is included in Appendix A.

The soil sample collected from boring B-3 at a depth of 5 feet bgs did not show any evidence of petroleum contamination (Table 2). A groundwater sample was not collected from Boring B-3.

4.4 Former Underground Storage Tank(s) (Borings B-4 and B-5):

The soil cores collected from Borings B-4 and B-5 drilled near the location of the former underground storage tanks yielded field screening evidence of petroleum contamination. Significant organic vapor concentrations and oily sheens were not encountered in Boring B-4 until approximately 5.5 feet bgs, where an organic vapor concentration of 159 ppm was detected and a moderate sheen was observed. The organic vapor concentrations and oily sheens decreased with depth, and were not detected by approximately 13 feet bgs. Significant organic vapor concentrations and oily sheens were not encountered in Boring B-5 until approximately 8 feet bgs, where an organic vapor concentration of 98 ppm was detected and a moderate sheen was observed. The organic vapor concentrations and oily sheens decreased with depth, and were not detected by approximately 11 feet bgs. The soil borelogs for Borings B-4 and B-5 are included in Appendix A.

Soil located at the former underground storage tanks area has been impacted by gasoline and diesel range TPH at relatively high concentrations. The soil sample collected from Boring B-4 at a depth of 6 feet bgs showed evidence of contamination from gasoline range and diesel range TPH, mercury, arsenic, chromium and lead. Gasoline range TPH was detected at a concentration of 270 mg/kg, which exceeds the MTCA Method A target cleanup level of 100 mg/kg. Diesel range TPH was detected at a concentration of 16,000 mg/kg, which exceeds the cleanup level of 2,000 mg/kg (Tables 2 and 5). The original soil laboratory data report is included in Appendix B.

The soil sample collected from Boring B-5 at a depth of 8 feet bgs showed evidence of contamination from gasoline range and diesel range TPH, arsenic, chromium and lead. Gasoline range TPH was detected at a concentration of 470 mg/kg, which exceeds the MTCA Method A target cleanup level of 100 mg/kg. Diesel range TPH was detected at a concentration of 5,200 mg/kg, which exceeds the MTCA Method A target cleanup level of 2,000 mg/kg (Tables 2 and 5). The original soil laboratory data report is included in Appendix B.

Groundwater samples collected from Borings B-4 and B-5 showed evidence of contamination from gasoline range and diesel range TPH. Both constituents were detected at concentrations below the MTCA Method A cleanup levels (Table 6). The original groundwater laboratory data report is included in Appendix C.

4.5 Former Gasoline Service Station (Borings B-6 and B-7):

Soil Borings B-6 and B-7 were drilled near the location of the former gasoline station. Soil Boring B-6, drilled at the western property boundary, did not yield field screening evidence of petroleum contamination. No organic vapors or oily sheens were encountered to a depth of approximately 15 feet bgs. Soil Boring B-7 yielded field screening evidence of petroleum contamination. Significant organic vapor concentrations and oily sheens were not encountered in Boring B-7 until approximately 6 feet bgs, where an organic vapor concentration of 257 ppm was detected and a moderate sheen was observed. At 11 feet bgs an organic vapor concentration of 467 ppm was detected with a moderate sheen. The organic vapor concentrations and oily sheens decreased with depth, and were not detected by approximately 15 feet bgs. The soil borelogs for Borings B-6 and B-7 are included in Appendix A.

The soil sample collected from Boring B-6 at a depth of 6 feet bgs did not show any evidence of contamination (Table 2). A groundwater sample was not collected from boring B-6.

The soil sample collected from Boring B-7 at a depth of 11 feet bgs showed evidence of contamination from gasoline range TPH, benzene, toluene, ethylbenzene, xylenes, arsenic, chromium and lead. Gasoline range TPH was detected in soil Boring B-7 at a concentration of 2,000 mg/kg, which exceeds the MTCA Method A target cleanup level of 100 mg/kg. Benzene was detected at a concentration of 0.62 mg/kg, which exceeds that MTCA Method A target cleanup level of 0.03 mg/kg (Table 2). The original soil laboratory data report is included in Appendix B.

The groundwater sample collected from Boring B-7 showed evidence of contamination from gasoline range and diesel range TPH, ethylbenzene and xylenes. Gasoline range TPH was detected at a concentration of 3,500 ug/L, which exceeds the MTCA Method A target cleanup level of 1,000 ug/L (Table 6). The original groundwater laboratory data report is included in Appendix C.

4.6 Former Railroad Depot/Coal Storage (Borings B-8 and B-9):

The soil cores collected from Borings B-8 and B-9 drilled near the location of the former coal storage areas did not yield field screening evidence of petroleum contamination. No organic vapors or petroleum sheens were detected in either boring. Soil Boring B-8 was drilled in the northeast corner of parcel P109239. At approximately 1.5 feet bgs black silty sand with what appeared to be coal fragments or burned coal debris was encountered. The black material extended to a depth of approximately 5.5 feet, where native tan silt was encountered. Soil Boring B-9 was drilled in the southeast portion of parcel P109239. At approximately 1 foot bgs black silty sand with what appeared to be coal fragments or burned coal debris was encountered. The black material extended to a depth of approximately 5 feet, where native tan silt was encountered. The soil borelogs for Borings B-8 and B-9 are included in Appendix A.

The soil sample collected from Boring B-8 at a depth of 2 feet bgs and the soil sample collected from Boring B-9 at a depth of 2 feet bgs showed evidence of contamination from the following cPAHs: benzo[A]anthracene, chrysene, benzo[B]fluoranthene, benzo[K]fluoranthene, benzo[A]pyrene, indeno[1,2,3-Cd]pyrene and dibenz[A,H]anthracene. The MTCA Method A cleanup level for cPAHs is based upon the sum of all cPAH constituents (Ecology, 2007). The soil sample collected from Boring B-8 contained cPAHs at a summed concentration of 0.30 mg/kg which exceeded the MTCA Method A cleanup level of 0.1 mg/kg. The soil sample collected from Boring B-9 contained cPAHs at a summed concentration of 0.26 mg/kg which exceeded the MTCA Method A cleanup level of 0.1 mg/kg (Table 3). The original soil laboratory data report is included in Appendix B.

Groundwater samples were not collected from Borings B-8 or B-9.

5.0 DATA INTERPRETATION

Review of the data collected during the Phase II ESA investigation indicate that soil and groundwater at five of the six areas of concern identified as RECs in the Phase I ESA have been impacted by contaminants at concentrations which exceed the MTCA Method A target cleanup levels.

5.1 Waste Oil Storage Area Findings (Boring B-1)

The soil sample collected from Boring B-1 at a depth of 5 feet bgs showed evidence of contamination from gasoline range, diesel range and lube oil range TPH, ethylbenzene, cPAHs, PCB-1260, mercury, arsenic, chromium and lead. The sample contained gasoline range, diesel range, and lube oil range TPH, cPAHs, PCB-1260, and lead at concentrations which exceeded the MTCA Method A cleanup levels.

A groundwater sample collected from Boring B-1 at the former waste oil storage area contained low concentrations of gasoline and diesel range TPH which did not exceed the MTCA Method A target cleanup levels.

The data indicate that a release of waste oil to soil occurred sometime in the past. Field screening observations indicate that the waste oil contamination extends from the ground surface to a depth of approximately 10 feet bgs, indicating that historical waste oil spills at the former waste oil storage area are the likely cause of the release.

5.2 Former Above-Ground Oil Tank Findings (Boring B-2)

The soil sample collected from Boring B-2 at a depth of 14 feet showed evidence of contamination from gasoline range, diesel range, and lube oil range TPH, cPAHs, arsenic, chromium and lead. The sample contained gasoline and diesel range TPH at concentrations which exceeded the MTCA Method A cleanup levels.

A groundwater sample collected from boring B-2 showed evidence of contamination from gasoline range, diesel range and lube oil range TPH, benzene, toluene, and xylenes. The sample contained gasoline range, diesel range, and lube oil range TPH at concentrations which exceeded the MTCA Method A cleanup levels.

Field screening observations indicated that the contamination was encountered at a depth of approximately 5 feet bgs, indicating that contamination could be migrating in the subsurface at that boring location. Field screening observations indicate that the petroleum contamination encountered at soil Boring B-2 extends from 5 feet bgs to at least 15 feet bgs. The total depth of contamination at the Boring B-2 location was not determined.

5.3 Former Automotive/Oil House Findings (Boring B-3)

No evidence of petroleum contamination was observed at the location of soil Boring B-3. The former automotive/oil house identified in the Phase I ESA was located beneath the current building. If soil or groundwater contamination is associated with the former automotive/oil house, it does not appear to have migrated to the location of soil Boring B-3.

5.4 Former Underground Storage Tank(s) Findings (Borings B-4 and B-5):

Soil located at the former underground storage tanks area has been impacted by gasoline and diesel range TPH at relatively high concentrations. Gasoline and diesel range TPH were detected at concentrations which exceeded the MTCA Method A target cleanup levels.

The groundwater samples collected from Borings B-4 and B-5 at the former underground storage tanks area contained low concentrations of gasoline and diesel range TPH which did not exceed the MTCA Method A target cleanup levels.

The data are indicative of a release of gasoline and diesel to soil from the abandoned underground storage tank(s). Field screening observations indicated that the contamination was encountered at a depth of approximately 5.5 to 7 feet bgs, indicating that contamination could be migrating in the subsurface at those boring locations. The exact location of the abandoned underground storage tanks has not been determined.

5.5 Former Gasoline Service Station Findings (Borings B-6 and B-7):

Soil located at the former gasoline service station area has been impacted by gasoline range TPH at relatively high concentrations. Gasoline range TPH was detected in soil in Boring B-7 at a concentration which exceeded the MTCA Method A target cleanup level.

A groundwater sample collected from Boring B-7 at the former gasoline service station location contained a relatively high concentration of gasoline range TPH which exceeded the MTCA Method A target cleanup level.

The data are indicative of a release of gasoline to soil and groundwater from the operation of the former gasoline service station. Field screening observations indicated that the contamination was encountered at a depth of approximately 6 feet bgs, indicating that contamination could be migrating in the subsurface at that boring location. The organic vapor concentrations and oily sheens decreased with depth, and were not detected by approximately 15 feet bgs. The exact location of the former gasoline service station tanks and product piping has not been determined.

5.6 Former Railroad Depot/Coal Storage Findings (Borings B-8 and B-9):

Soil located at the former railroad depot/coal storage areas has been impacted by the following carcinogenic PAHs at concentrations which exceeded the MTCA Method A cleanup level: benzo[A]anthracene, chrysene, benzo[B]fluoranthene, benzo[K]fluoranthene, benzo[A]-pyrene, indeno[1,2,3-Cd]pyrene, and dibenz[A,H]anthracene.

Groundwater samples were not collected from Borings B-8 or B-9.

The field screening observations and laboratory analytical data indicate that shallow soils ranging to a depth of approximately 5 feet bgs have been impacted by past coal storage practices. The extent of the residual coal debris is not known.

6.0 CONCLUSIONS

A Phase II ESA investigation was completed in November 2011 at the North Cascade Ford automobile dealership located at 116 West Ferry Street in Sedro Woolley, Washington, in general conformance with the scope and limitations of ASTM Practice E 1903-11 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

The statement of objectives of the Phase II ESA included investigation of subsurface conditions at the following locations which were identified as Recognized Environmental Conditions (RECs) in the Phase I ESA dated July 15, 2011 (Phase I Environmental Site Assessment: North Cascade Ford, 116 West Ferry Street, Sedro-Woolley, Washington):

- **Former Waste Oil Storage Area**
- **Former Above-Ground Oil Tank**
- **Former Automotive/Oil House**
- **Former Underground Storage Tank(s)**
- **Former Gasoline Service Station**
- **Former Railroad Depot/Coal Storage**

The Phase II Environmental Site Assessment was completed in order to investigate the subsurface soil and groundwater conditions at the above referenced areas of concern. Nine soil borings were drilled at the subject property and soil and groundwater samples were collected for laboratory analysis in an attempt to determine if soil and/or groundwater contamination is located at the locations identified as RECs in the Phase I ESA.

Field screening observations and the laboratory analytical data indicate that past releases of petroleum products and other contaminants have impacted the soil and groundwater at the subject property. Review of the data collected during the Phase II ESA investigation indicate that soil and/or groundwater at five of the six areas of concern identified as RECs in the Phase I ESA have been impacted by contaminants at concentrations which exceed the MTCA Method A target cleanup levels.

Soil and/or groundwater contamination was identified at concentrations exceeding the MTCA Method A target cleanup levels at the following locations:

- **Former Waste Oil Storage Area**
- **Former Above-Ground Oil Tank**
- **Former Underground Storage Tank(s)**
- **Former Gasoline Service Station**
- **Former Railroad Depot/Coal Storage**

The locations described above have been impacted by a release(s) of regulated contaminants at concentrations which exceed applicable cleanup levels. The extent of soil and groundwater contamination at the identified locations has not been delineated and further investigation is necessary to determine the extent of contamination at the subject property.

7.0 LIMITATIONS

No site investigation can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Performance of this investigation by Whatcom Environmental Services Inc. 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 Services' 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.

This report has been prepared for use by Mr. Travis Coulter and North Cascade Ford Inc. Whatcom Environmental Services prepares a report for the client's exclusive use for a particular project and in accordance with generally accepted practices at the time of investigation. This report was prepared for exclusive use by the client and its agents and may not be used, relied upon, or assigned to a third party without written consent from Whatcom Environmental Services Inc. This report is not intended for use by others, and the information contained herein is not applicable to other sites. This report may be made available to regulatory agencies.

8.0 REFERENCES

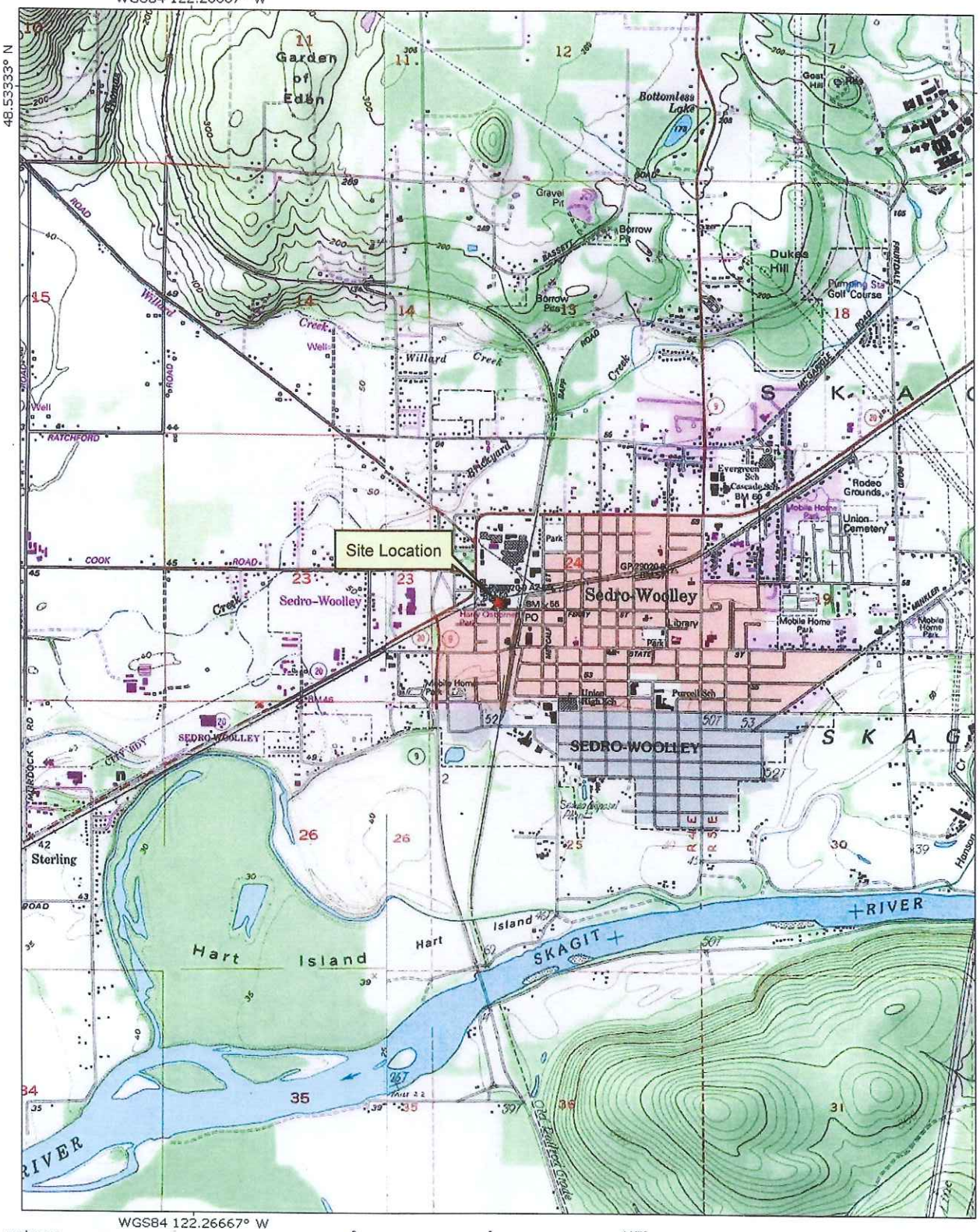
Washington State Department of Ecology (Ecology). 2007. Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. Publication No. 94-06. Revised November 2007.

Whatcom Environmental Services. July 15, 2011. Phase I Environmental Site Assessment: North Cascade Ford, 116 West Ferry Street, Sedro-Woolley, Washington.

TOPO! map printed on 07/05/11 from "Washington.tpo" and "Untitled.tpg"

WGS84 122.26667° W

48.53333° N



WGS84 122.26667° W

48.53333° N

TN 17½° MN

0 5 1 MILE

0 1000 FEET 0 500 1000 METERS

Prepared for:	Prepared by:	Site Location Map
North Cascade Ford	whatcom ENVIRONMENTAL	N. Cascade Ford 12/7/11 Figure 1

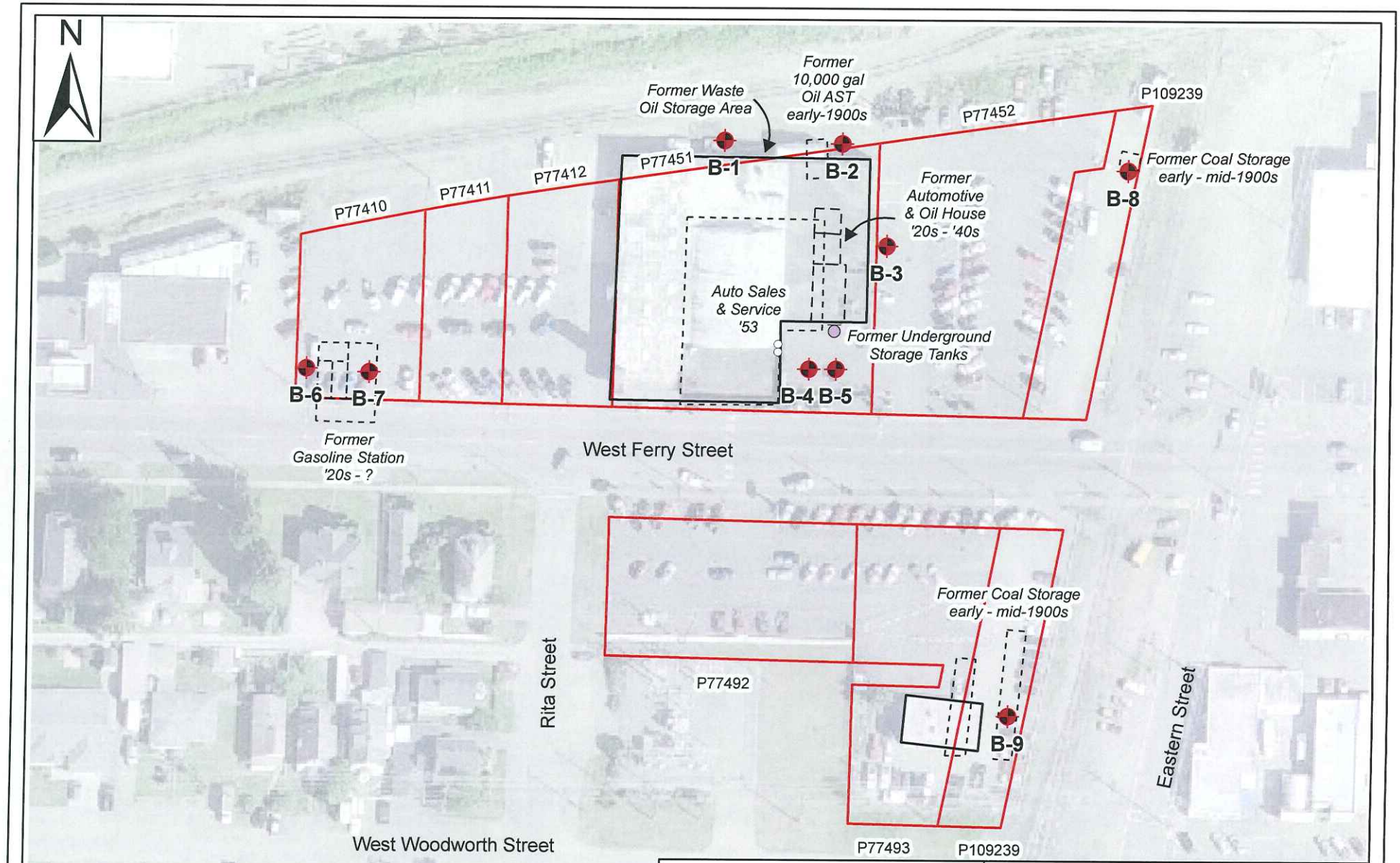

N
Former Waste Oil Storage Area
Former 10,000 gal Oil AST early-1900s
P109239
P77452
P77451
P77412
P77411
P77410
B-1
B-2
Former Automotive & Oil House '20s - '40s
Former Coal Storage early - mid-1900s
B-8
B-3
Auto Sales & Service '53
Former Underground Storage Tanks
B-4
B-5
B-6
B-7
Former Gasoline Station '20s - ?
West Ferry Street
Former Coal Storage early - mid-1900s
Rita Street
P77492
B-9
Eastern Street
West Woodworth Street
P77493
P109239
Soil Boring Locations
Vents
1953 Gas Tank
Current Structures
Subject Property
Historical Structures
All data are approximate and should be used as relative location reference only.
2009 Aerial Photograph
0 25 50 100 150 200
Feet
1 inch equals 100 feet
Prepared for:
North Cascade Ford
Prepared by:
nwhatcom ENVIRONMENTAL
Phase II ESA
Soil Boring Locations
N. Cascade Ford
3/14/12
Figure 2

Table 1. Soil Sample Descriptions - North Cascade Ford

Sample ID	Date units:	Depth (ft bgs)	Location and Description	Sheen Test*	PID (ppm)
B-1 5ft	11/15/2011	5	Collected from boring B-1 at 5 feet bgs. Silty fine sand, brown, firm, moist	HS	284
B-2 14 ft	11/15/2011	14	Collected from boring B-2 at 14 feet bgs. Medium to coarse sand, brown, loose, wet	HS	227
B-3 5ft	11/15/2011	5	Collected from boring B-3 at 5 feet bgs. Silty find sand, light brown, firm, dry	NS	0.0
B-4 6ft	11/15/2011	6	Collected from boring B-4 at 6 feet bgs. Silty fine sand, gray, slightly plastic, wet	MS	159
B-5 8ft	11/15/2011	8	Collected from boring B-5 at 8 feet bgs. Medium sand, gray, firm, wet	MS	98
B-6 6ft	11/15/2011	6	Collected from boring B-6 at 6 feet bgs. Fine to medium sand, brown, loose, moist	NS	0.0
B-7 11ft	11/15/2011	11	Collected from boring B-7 at 11 feet bgs. Medium to coarse sand, gray, loose, wet	MS	467
B-8 2ft	11/15/2011	2	Collected from boring B-8 at 2 feet bgs. Silty sand with coal fragments, black, dry	NS	0.0
B-9 2ft	11/15/2011	2	Collected from boring B-9 at 2 feet bgs. Silty sand with coal fragments, black, dry	NS	0.0

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

Table 2. Soil Sample TPH and BTEX Analytical Results - North Cascade Ford

Sample ID	Date	NWTPH-Gx Gasoline Range	NWTPH-Dx Diesel Range	NWTPH-Dx Lube-Oil Range	EPA-8260B Benzene	EPA-8260B Toluene	EPA-8260B Ethyl-benzene	EPA-8260B Xylenes
	units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B-1 5ft	11/15/2011	**810**	**16,000**	**32,000**	ND	ND	2.4	ND
B-2 14 ft	11/15/2011	**750**	**2,400**	1,900	ND	ND	ND	ND
B-3 5ft	11/15/2011	ND	ND	ND	ND	ND	ND	ND
B-4 6ft	11/15/2011	**270**	**16,000**	ND	ND	ND	ND	ND
B-5 8ft	11/15/2011	**470**	**5,200**	ND	ND	ND	ND	ND
B-6 6ft	11/15/2011	ND	ND	ND	ND	ND	ND	ND
B-7 11ft	11/15/2011	**2,000**	ND	ND	**0.62**	2.7	2.3	2.6
B-8 2ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-9 2ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
MTCA Method A Clean-up Levels:		100/30*	2,000	2,000	0.03	7.0	6.0	9.0

Bold - Concentrations of the analyte exceed the MTCA Method A cleanup level

NA - indicates sample not analyzed for the indicated analyte

ND - indicates analyte was not detected at level above reporting limit

*Cleanup level dependent on presence of benzene

Table 3. Soil Sample cPAH Analytical Results - North Cascade Ford

Sample ID	Date units:	EPA-8270 SIM Benzo[A] Anthracene mg/kg	EPA-8270 SIM Chrysene mg/kg	EPA-8270 SIM Benzo[B] Fluoranthene mg/kg	EPA-8270 SIM Benzo[K] Fluoranthene mg/kg	EPA-8270 SIM Benzo[A] Pyrene mg/kg	EPA-8270 SIM Indeno[1,2,3-Cd]Pyrene mg/kg	EPA-8270 SIM Dibenz[A,H] Anthracene mg/kg	EPA-8270 SIM Total TEC* mg/kg
B-1 5ft	11/15/2011	0.53	0.71	0.31	0.33	0.4	0.3	ND	**0.5541**
B-2 14 ft	11/15/2011	0.049	0.28	ND	ND	ND	ND	ND	0.0077
B-3 5ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA	NA
B-4 6ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA	NA
B-5 8ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA	NA
B-6 6ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA	NA
B-7 11ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA	NA
B-8 2ft	11/15/2011	0.31	0.33	0.20	0.20	0.21	0.12	0.046	**0.3009**
B-9 2ft	11/15/2011	0.20	0.24	0.18	0.16	0.18	0.15	0.10	**0.2614**
MTCA Method A Clean-up Levels:		Use Total Toxic Equivalent Concentration (see last column)							0.10

Bold - Concentrations of the analyte exceed the MTCA Method A cleanup level

NA - indicates sample not analyzed for the indicated analyte

ND - indicates analyte was not detected at level above reporting limit

* Total Toxic Equivalent Concentration calculated using the toxicity equivalency methodology provided in WAC 173-340-708(8)

Table 4. Soil Sample PCB Analytical Results - North Cascade Ford

Sample ID	Date	EPA-8082 PCB-1016	EPA-8082 PCB-1221	EPA-8082 PCB-1232	EPA-8082 PCB-1242	EPA-8082 PCB-1248	EPA-8082 PCB-1254	EPA-8082 PCB-1260
	units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B-1 5ft	11/15/2011	ND	ND	ND	ND	ND	ND	**1.3**
B-2 14 ft	11/15/2011	ND	ND	ND	ND	ND	ND	ND
B-3 5ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-4 6ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-5 8ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-6 6ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-7 11ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-8 2ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
B-9 2ft	11/15/2011	NA	NA	NA	NA	NA	NA	NA
MTCA Method A Clean-up Levels:		Sum 1.0						

Bold - Concentrations of the analyte exceed the MTCA Method A cleanup level

NA - indicates sample not analyzed for the indicated analyte

ND - indicates analyte was not detected at level above reporting limit

Table 5. Soil Sample Metals Analytical Results - North Cascade Ford

Sample ID	Date	EPA-7471 Mercury	EPA-6020 Arsenic	EPA-6020 Cadmium	EPA-6020 Chromium	EPA-6020 Lead
	units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B-1 5ft	11/15/2011	0.17	4.6	ND	21	**520**
B-2 14 ft	11/15/2011	ND	2.4	ND	17	2.0
B-3 5ft	11/15/2011	NA	NA	NA	NA	NA
B-4 6ft	11/15/2011	0.039	5.7	ND	42	6.7
B-5 8ft	11/15/2011	ND	3.7	ND	14	2.2
B-6 6ft	11/15/2011	NA	NA	NA	NA	NA
B-7 11ft	11/15/2011	ND	1.4	ND	7.5	1.7
B-8 2ft	11/15/2011	NA	NA	NA	NA	NA
B-9 2ft	11/15/2011	NA	NA	NA	NA	NA
MTCA Method A Clean-up Levels:		2	20	2	2,000	250

Bold - Concentrations of the analyte exceed the MTCA Method A cleanup level

NA - indicates sample not analyzed for the indicated analyte

ND - indicates analyte was not detected at level above reporting limit

Table 6. Groundwater Sample TPH and BTEX Analytical Results - North Cascade Ford

Sample ID*	Date units:	NWTPH-Gx Gasoline Range µg/L	NWTPH-Dx Diesel Range µg/L	NWTPH-Dx Lube Oil Range µg/L	EPA-8021 Benzene µg/L	EPA-8021 Toluene µg/L	EPA-8021 Ethylbenzene µg/L	EPA-8021 Xylenes µg/L
B-1	11/15/2011	200	430	ND	ND	ND	ND	ND
B-2	11/15/2011	**1,400**	**13,000**	**8,600**	1.2	2.4	ND	5.3
B-3	-	NA	NA	NA	NA	NA	NA	NA
B-4	11/15/2011	220	470	ND	ND	ND	ND	ND
B-5	11/15/2011	160	400	ND	ND	ND	ND	ND
B-6	-	NA	NA	NA	NA	NA	NA	NA
B-7	11/15/2011	**3,500**	380	ND	ND	ND	22	25
MTCA Method A Clean-up Levels:		1,000/800**	500	500	5	1,000	700	1,000

Bold - Concentrations of the analyte exceed the MTCA Method A cleanup level

ND - Indicates analyte was not detected at level above reporting limit

* Sample ID corresponds to boring ID

** Cleanup level dependent on presence of benzene

APPENDIX A

Soil Borelogs

Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-1**
Location: Former waste oil storage area
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 6 feet
Total Depth: 15 feet

Depth/Description		Blow Count	PID (ppm)	Sheen	Sample
0-2"	Asphalt				
2"-6"	Sandy gravel, brown, loose, dry		39	SS	
6"-1.5'	Sandy gravel, brown, loose, dry		66	SS	
1.5'-2.0'	Silty fine sand, brown, loose, dry		11	NS	
2.0'-2.5'	Silt with wood fragments, brown, firm, dry		135	HS	
2.5'-3.5'	Silt with wood fragments and brick (fill)		157	HS	
3.5'-5.0'	Silty fine sand, brown, firm, moist		284	HS	5 ft
5.0'-10.0'	Fine sandy silt, olive gray, wet below 6 feet		43	VSS	
10.0'-15.0'	Silty fine sand, olive gray, firm, wet		0.0	NS	
WATER SAMPLE COLLECTED					

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

Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-2**
Location: Near former oil AST north of main building
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5 feet
Total Depth: 15 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-2" Asphalt				
2"-1.0' Sandy gravel, brown, loose, dry		0.0	SS	
1.0'-2.0' Sandy gravel, brown, loose, dry		0.0	VSS	
2.0'-3.0' Silty fine sand, brown, firm, dry		6.0	NS	
3.0'-5.0' Silty fine sand, gray, firm, dry		0.0	NS	
5.0'-10.0' Medium to coarse sand, brown, firm, wet PID = 211 ppm at 8 feet		108-211	HS	
10.0'-15.0' Medium to coarse sand, brown, loose, wet, heavily oiled		227.0	HS	14 ft
WATER SAMPLE COLLECTED				

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

Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-3**
Location: East side of building
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5 feet
Total Depth: 15 feet

Depth/Description		Blow Count	PID (ppm)	Sheen	Sample
0-4"	Asphalt				
4"-2.5'	Sandy gravel, brown, loose, dry (fill)		0.0	NS	
2.5'-5.0'	Silty fine sand, light brown, firm, dry		0.0	NS	5 ft
5.0'-8.5'	Silt, brown with minor orange mottling, firm, wet		0.0	NS	
8.5'-10.0'	Silt, gray, plastic, wet		0.0	NS	
10.0'-12.5'	Silty fine sand, brown, slightly plastic, wet		0.0	NS	
12.5'-15.0'	Clayey silt, gray, slightly plastic, wet		0.0	NS	

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Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-4**
Location: Near former USTs (west boring)
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 6 feet
Total Depth: 15 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-4" Asphalt				
4"-2.0' Sandy gravel, brown, loose, dry		0.0	VSS	
2.0'-3.0' Sandy gravel, brown, loose, dry		0.0	NS	
3.0'-5.5' Silty fine sand, light brown, firm, dry		0.0	NS	
5.5'-10.0' Silty fine sand, gray, slightly plastic, wet PID = 96 ppm at 10 feet		159-96	MS	6 ft
10.0'-13.0' Medium sand, gray, firm, wet		7.0	NS	
13.0'-15.0' Fine sandy silt, olive brown, slightly plastic, wet, with woody layer at 14 feet		0.0	NS	
WATER SAMPLE COLLECTED				

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Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-5**
Location: Near former USTs (east boring)
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5.5 feet
Total Depth: 15 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-4" Asphalt				
4"-1.5' Sandy gravel with brick fragments, brown, loose, dry		0.0	NS	
1.5'-5.5' Fine sandy silt, light brown, firm, dry		0.0	NS	
5.5'-7.0' Fine sandy silt, light brown with orange mottling, firm, wet		0.0	NS	
7.0'-8.0' Silt, gray, plastic, wet		20	SS	
8.0'-10.0' Medium sand, gray, firm, wet		98	MS	8 ft
10.0'-11.0' Medium sand, gray, firm, wet		36	VSS	
11.0'-15.0' Fine sandy silt, olive brown, slightly plastic, wet		<1	NS	
WATER SAMPLE COLLECTED				

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Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-6**
Location: Former gas station (west boring)
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5.5 feet
Total Depth: 15 feet

Depth/Description		Blow Count	PID (ppm)	Sheen	Sample
0-2"	Asphalt				
2"-1.0'	Silty gravel, light brown, firm, dry		0.0	NS	
1.0'-2.0'	Sandy gravel, dark brown to black, loose, moist		0.0	NS	
2.0'-3.0'	Silty fine sand, dark brown, firm, dry		0.0	NS	
3.0'-5.5'	Silty fine sand, brown, firm, dry		0.0	NS	
5.5'-6.0'	Silty fine sand, brown, firm, moist		0.0	NS	
6.0'-8.0'	Fine to medium sand, brown, loose, moist		0.0	NS	6 ft
8.0'-12.0'	Coarse sand, brown, loose, wet		0.0	NS	
12.0'-15.0'	Silt, gray, plastic, wet		0.0	NS	

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Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-7**
Location: Former gas station (east boring)
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5.5 feet
Total Depth: 15 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-2" Asphalt				
2"-2.5' Silty gravel, brown, firm, dry		0.0	NS	
2.5'-5.5' Silty fine sand, brown with minor orange mottling, firm, dry		0.0	NS	
5.5'-6.0' Silty fine sand, brown with minor orange mottling, firm, wet		0.0	NS	
6.0'-9.5' Silt, gray, plastic, wet		105-257	MS	
9.5'-13.0' Medium to coarse sand, gray, loose, wet		467	MS	11 ft
13.0'-15.0' Silt, olive gray, plastic, wet, with woody debris at 15 feet PID=0 ppm at 15 feet		36-0	NS	
WATER SAMPLE COLLECTED				

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Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-8**
Location: Northeast former coal storage area
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: ~ 5.5 feet
Total Depth: 10 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-1.5' Sandy gravel, brown, loose, dry		0.0	NS	
1.5'-5.5' Silty sand with coal fragments, black, dry		0.0	NS	2.0 ft
5.5'-10.0' Silt, tan with minor orange mottling, firm, wet		0.0	NS	

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

Boring Log

Project: North Cascade Ford
Client: Travis Coulter
Boring Number: **B-9**
Location: Southeast former coal storage area
Date Completed: 11/15/11

Sheet: 1 of 1
Drilled by: Cascade Drilling
Logged by: Harold Cashman
First Encountered Water: n/a
Total Depth: 5 feet

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
0-1.0' Sandy gravel, brown, loose, dry		0.0	NS	
1.0'-2.0' Silty sand with coal fragments, black, dry		0.0	NS	2 ft
2.0'-4.0' Silt, tan, firm, dry		0.0	NS	
4.0'-4.5' Silty sand with moderate gravel, black and brown, firm, dry		0.0	NS	
4.5'-5.0' Silt, tan, firm, dry		0.0	NS	

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

APPENDIX B

Original Soil Laboratory Analytical Data

November 30, 2011

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

Dear Mr. Cashman,

On November 17th, 9 samples were received by our laboratory and assigned our laboratory project number 1111096. The project was identified as your North Cascade Ford. 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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -01
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 09:15
CLIENT SAMPLE ID	B-1 5ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**810**	60	20	MG/KG	11/21/2011	GAP
Benzene	EPA-8021	U	0.70	20	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	U	1.2	20	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	**2.4**	1.2	20	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	U	4.7	20	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	**16000**	610	20	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	**32000**	1200	20	MG/KG	11/18/2011	EBS
Benzo[A]Anthracene	EPA-8270 SIM	**0.53**	0.20	10	MG/KG	11/23/2011	LAP
Chrysene	EPA-8270 SIM	**0.71**	0.20	10	MG/KG	11/23/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.31**	0.20	10	MG/KG	11/23/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.33**	0.20	10	MG/KG	11/23/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	**0.40**	0.20	10	MG/KG	11/23/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.30**	0.20	10	MG/KG	11/23/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.20	10	MG/KG	11/23/2011	LAP
PCB-1016	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1221	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1232	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1242	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1248	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1254	EPA-8082	U	0.50	5	MG/KG	11/28/2011	LAP
PCB-1260	EPA-8082	**1.3**	0.50	5	MG/KG	11/28/2011	LAP
Mercury	EPA-7471	**0.17**	0.020	1	MG/KG	11/18/2011	RAL
Arsenic	EPA-6020	**4.6**	0.80	5	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	**21**	0.59	5	MG/KG	11/22/2011	RAL
Lead	EPA-6020	**520**	0.58	5	MG/KG	11/22/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 20X Dilution	NWTPH-GX	**0 DS2**	11/21/2011	GAP
TFT 20X Dilution	EPA-8021	**0 DS2**	11/21/2011	GAP
C25 20X Dilution	NWTPH-DX	**137 DS2**	11/18/2011	EBS
Terphenyl-d14 10X Dilution	EPA-8270 SIM	**105 DS2**	11/23/2011	LAP
TCMX 5X Dilution	EPA-8082	**0 DS2**	11/28/2011	LAP
DCB 5X Dilution	EPA-8082	**0 DS2**	11/28/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -01
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 09:15
CLIENT SAMPLE ID	B-1 5ft	WDOE ACCREDITATION:	C601

DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains mineral spirits, weathered diesel and lube oil.
Diesel range product results biased high due to oil range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -02
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 10:00
CLIENT SAMPLE ID	B-2 14ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**750**	30	10	MG/KG	11/21/2011	GAP
Benzene	EPA-8021	U	0.30	10	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	U	0.50	10	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	U	0.50	10	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	U	2.0	10	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	**2400**	120	5	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	**1900**	250	5	MG/KG	11/18/2011	EBS
Benzo[A]Anthracene	EPA-8270 SIM	**0.049**	0.040	2	MG/KG	11/28/2011	LAP
Chrysene	EPA-8270 SIM	**0.28**	0.040	2	MG/KG	11/28/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.040	2	MG/KG	11/28/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.040	2	MG/KG	11/28/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.040	2	MG/KG	11/28/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.040	2	MG/KG	11/28/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.040	2	MG/KG	11/28/2011	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	11/18/2011	RAL
Arsenic	EPA-6020	**2.4**	0.77	5	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	**17**	0.59	5	MG/KG	11/22/2011	RAL
Lead	EPA-6020	**2.0**	0.58	5	MG/KG	11/22/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**12.4 DS2**	11/21/2011	GAP
TFT 10X Dilution	EPA-8021	**6.59 DS2**	11/21/2011	GAP
C25 5X Dilution	NWTPH-DX	**112**	11/18/2011	EBS
Terphenyl-d14 2X Dilution	EPA-8270 SIM	**77.6**	11/28/2011	LAP
TCMX	EPA-8082	**56.0**	11/28/2011	LAP
DCB	EPA-8082	**79.0**	11/28/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline, weathered diesel and lube oil.

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -03
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 11:00
CLIENT SAMPLE ID	B-3 5ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	2.0	0.66	MG/KG	11/21/2011	GAP
Benzene	EPA-8021	U	0.021	0.66	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	U	0.036	0.66	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	U	0.036	0.66	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	U	0.14	0.66	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	11/18/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 0.66X Dilution	NWTPH-GX	**88.9**	11/21/2011	GAP
TFT 0.66X Dilution	EPA-8021	**108**	11/21/2011	GAP
C25	NWTPH-DX	**107**	11/18/2011	EBS

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

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -04
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 12:35
CLIENT SAMPLE ID	B-4 6ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**270**	100	10	MG/KG	11/21/2011	GAP
Benzene	EPA-8021	U	0.31	10	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	U	0.52	10	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	U	0.52	10	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	U	2.1	10	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	**16000**	250	10	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	500	10	MG/KG	11/18/2011	EBS
Mercury	EPA-7471	**0.039**	0.020	1	MG/KG	11/18/2011	RAL
Arsenic	EPA-6020	**5.7**	0.83	5	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	**42**	0.59	5	MG/KG	11/22/2011	RAL
Lead	EPA-6020	**6.7**	0.58	5	MG/KG	11/22/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**7.78 DS2**	11/21/2011	GAP
TFT 10X Dilution	EPA-8021	**4.79 DS2**	11/21/2011	GAP
C25 10X Dilution	NWTPH-DX	**131 DS2**	11/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains weathered diesel.
Gasoline range reporting limit raised due to semivolatile range product overlap.

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CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -05
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 13:20
CLIENT SAMPLE ID	B-5 8ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**470**	30	10	MG/KG	11/21/2011	GAP
Benzene	EPA-8021	U	0.30	10	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	U	0.50	10	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	U	0.50	10	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	U	2.0	10	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	**5200**	120	5	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	5	MG/KG	11/18/2011	EBS
Mercury	EPA-7471	U	0.020	1	MG/KG	11/18/2011	RAL
Arsenic	EPA-6020	**3.7**	0.69	5	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	**14**	0.59	5	MG/KG	11/22/2011	RAL
Lead	EPA-6020	**2.2**	0.58	5	MG/KG	11/22/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**4.65 DS2**	11/21/2011	GAP
TFT 10X Dilution	EPA-8021	**3.03 DS2**	11/21/2011	GAP
C25 5X Dilution	NWTPH-DX	**94.4**	11/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline and weathered diesel.

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -06
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 14:30
CLIENT SAMPLE ID	B-6 6ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	11/18/2011	GAP
Benzene	EPA-8021	U	0.030	1	MG/KG	11/18/2011	GAP
Toluene	EPA-8021	U	0.050	1	MG/KG	11/18/2011	GAP
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	11/18/2011	GAP
Xylenes	EPA-8021	U	0.20	1	MG/KG	11/18/2011	GAP
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	11/18/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**59.3 GS1**	11/18/2011	GAP
TFT	EPA-8021	**71.2**	11/18/2011	GAP
C25	NWTPH-DX	**101**	11/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

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CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	11/30/2011
		ALS JOB#:	1111096
		ALS SAMPLE#:	-07
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 15:15
CLIENT SAMPLE ID	B-7 11ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**2000**	300	100	MG/KG	11/18/2011	GAP
Benzene	EPA-8021	**0.62**	0.30	10	MG/KG	11/21/2011	GAP
Toluene	EPA-8021	**2.7**	0.50	10	MG/KG	11/21/2011	GAP
Ethylbenzene	EPA-8021	**2.3**	0.50	10	MG/KG	11/21/2011	GAP
Xylenes	EPA-8021	**2.6**	2.0	10	MG/KG	11/21/2011	GAP
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	11/18/2011	EBS
Mercury	EPA-7471	U	0.020	1	MG/KG	11/18/2011	RAL
Arsenic	EPA-6020	**1.4**	0.78	5	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	**7.5**	0.59	5	MG/KG	11/22/2011	RAL
Lead	EPA-6020	**1.7**	0.58	5	MG/KG	11/22/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 100X Dilution	NWTPH-GX	**3.19 DS2**	11/18/2011	GAP
TFT 10X Dilution	EPA-8021	**2.15 DS2**	11/21/2011	GAP
C25	NWTPH-DX	**92.3**	11/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains an unidentified gasoline range product.

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CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -08
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 16:00
CLIENT SAMPLE ID	B-8 2ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[A]Anthracene	EPA-8270 SIM	**0.31**	0.020	1	MG/KG	11/23/2011	LAP
Chrysene	EPA-8270 SIM	**0.33**	0.020	1	MG/KG	11/23/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.20**	0.020	1	MG/KG	11/23/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.20**	0.020	1	MG/KG	11/23/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	**0.21**	0.020	1	MG/KG	11/23/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.12**	0.020	1	MG/KG	11/23/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	**0.046**	0.020	1	MG/KG	11/23/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14	EPA-8270 SIM	**76.7**	11/23/2011	LAP

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CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/30/2011 1111096 -09
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 16:30
CLIENT SAMPLE ID	B-9 2ft	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[A]Anthracene	EPA-8270 SIM	**0.20**	0.080	4	MG/KG	11/28/2011	LAP
Chrysene	EPA-8270 SIM	**0.24**	0.080	4	MG/KG	11/28/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	**0.18**	0.080	4	MG/KG	11/28/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	**0.16**	0.080	4	MG/KG	11/28/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	**0.18**	0.080	4	MG/KG	11/28/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	**0.15**	0.080	4	MG/KG	11/28/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	**0.10**	0.080	4	MG/KG	11/28/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14 4X Dilution	EPA-8270 SIM	**85.1**	11/28/2011	LAP

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CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS SDG#: WDOE ACCREDITATION:	11/30/2011 1111096 C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY BLANK RESULTS

MBG-111511S2 - Batch 2286 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	11/16/2011	DLC

MB-111511S2 - Batch 2286 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	11/16/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	11/16/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	11/16/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	11/16/2011	DLC

MB-111711S - Batch 2298 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	11/18/2011	EBS

MB-111811S - Batch 2318 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	11/23/2011	LAP

MBLK-11282011 - Batch R75562 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	11/30/2011
	228 E. Champion St., Suite 101	ALS SDG#:	1111096
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY BLANK RESULTS

MBLK-11282011 - Batch R75562 - Soil by EPA-8082

PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/28/2011	LAP

MBLK-11182011 - Batch R75510 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/18/2011	RAL

MB-111811S - Batch 2304 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.12	1	MG/KG	11/22/2011	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	11/22/2011	RAL
Chromium	EPA-6020	U	0.12	1	MG/KG	11/22/2011	RAL
Lead	EPA-6020	U	0.12	1	MG/KG	11/22/2011	RAL

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	11/30/2011
	228 E. Champion St., Suite 101	ALS SDG#:	1111096
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2286 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	63.8			11/16/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	60.0	6		11/16/2011	DLC

ALS Test Batch ID: 2286 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	77.1			11/16/2011	DLC
Benzene - BSD	EPA-8021	72.3	6		11/16/2011	DLC
Toluene - BS	EPA-8021	73.5			11/16/2011	DLC
Toluene - BSD	EPA-8021	74.1	1		11/16/2011	DLC
Ethylbenzene - BS	EPA-8021	70.1			11/16/2011	DLC
Ethylbenzene - BSD	EPA-8021	70.9	1		11/16/2011	DLC
Xylenes - BS	EPA-8021	70.7			11/16/2011	DLC
Xylenes - BSD	EPA-8021	71.5	1		11/16/2011	DLC

ALS Test Batch ID: 2298 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	92.4			11/18/2011	EBS
TPH-Diesel Range - BSD	NWTPH-DX	96.1	4		11/18/2011	EBS

ALS Test Batch ID: 2318 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	83.9			11/28/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	89.9	7		11/29/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	75.6			11/28/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	74.3	2		11/29/2011	LAP

ALS Test Batch ID: R75562 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	69.0			11/28/2011	LAP
PCB-1016 - BSD	EPA-8082	84.0	20		11/28/2011	LAP
PCB-1260 - BS	EPA-8082	75.0			11/28/2011	LAP
PCB-1260 - BSD	EPA-8082	88.0	16		11/28/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc.	DATE:	11/30/2011
	228 E. Champion St., Suite 101	ALS SDG#:	1111096
	Bellingham, WA 98225	WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R75510 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**101**			11/18/2011	RAL
Mercury - BSD	EPA-7471	**101**	**0**		11/18/2011	RAL

ALS Test Batch ID: 2304 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**96.9**			11/22/2011	RAL
Arsenic - BSD	EPA-6020	**98.1**	**1**		11/22/2011	RAL
Cadmium - BS	EPA-6020	**96.8**			11/22/2011	RAL
Cadmium - BSD	EPA-6020	**99.0**	**2**		11/22/2011	RAL
Chromium - BS	EPA-6020	**98.9**			11/22/2011	RAL
Chromium - BSD	EPA-6020	**101**	**2**		11/22/2011	RAL
Lead - BS	EPA-6020	**101**			11/22/2011	RAL
Lead - BSD	EPA-6020	**102**	**1**		11/22/2011	RAL

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Laboratory Director

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ALS Laboratory Group
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Phone (425) 356-2600
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(425) 356-2626 Fax
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): 1111096

Date 11/16/11 Page 1 Of 1

PROJECT ID: NORTH CASCADE FORD
REPORT TO COMPANY: WHATCOM ENV. SVCS.
PROJECT MANAGER: HAROLD CASHMAN
ADDRESS: 228 E. CHAMPION ST. #101
BELLINGHAM, WA 98225
PHONE: (360) 752-9571 FAX:
P.O. NUMBER: E-MAIL: HJCASHMAN@WHATCOM....
INVOICE TO COMPANY: Whatcom Environmental
ATTENTION: Harold Cashman
ADDRESS:

	SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	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 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify): cPAHs						NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1.	B-1 5ft	11-15-11	9:15	Soil	1		X	X	X								X	X			X						3	
2.	B-2 14ft	↓	10:00	↓	2		X	X	X								X	X			X						3	
3.	B-3 5ft		11:00		3		X	X	X																		3	
4.	B-4 6ft		12:35		4		X	X	X									X									2	
5.	B-5 8ft		1:20		5		X	X	X									X									2	
6.	B-6 6ft		2:30		6		X	X	X																		2	
7.	B-7 11ft		3:15		7		X	X	X									X									2	
8.	B-8 2ft		4:00		8																X						2	
9.	B-9 2ft	↓	4:30	↓	9																X						2	
10.																												

SPECIAL INSTRUCTIONS: Samples collected via 5035 A (Please Send Results To Harold Cashman And Dan Heimbigner)

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: [signature] WES 11/16/11 10:45
Received By:
2. Relinquished By:
Received By: Shawn Roberson ALS 11/17/11 1:10

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ☒ 10 Standard ☐ 5 ☐ 3 ☐ 2 ☐ 1 ☐ SAME DAY

Fuels & Hydrocarbon Analysis: ☒ 5 Standard ☐ 3 ☐ 1 ☐ SAME DAY

OTHER:
Specify:

* [redacted]nd requ[redacted]than st[redacted]may inc[redacted]Charge[redacted]

LABORATORY COPY

APPENDIX C

Original Groundwater Laboratory Analytical Data

November 21, 2011

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

Dear Mr. Cashman,

On November 17th, 5 samples were received by our laboratory and assigned our laboratory project number 1111097. The project was identified as your North Cascade Ford. 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

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2011 1111097 -01
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 09:15
CLIENT SAMPLE ID	B-1	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**200**	50	1	UG/L	11/17/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	11/17/2011	DLC
TPH-Diesel Range	NWTPH-DX	**430**	130	1	UG/L	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	11/18/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**96.3**	11/17/2011	DLC
TFT	EPA-8021	**101**	11/17/2011	DLC
C25	NWTPH-DX	**91.7**	11/18/2011	EBS

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

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2011 1111097 -02
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 10:10
CLIENT SAMPLE ID	B-2	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**1400**	250	5	UG/L	11/18/2011	DLC
Benzene	EPA-8021	**1.2**	1.0	1	UG/L	11/18/2011	DLC
Toluene	EPA-8021	**2.4**	1.0	1	UG/L	11/18/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Xylenes	EPA-8021	**5.3**	3.0	1	UG/L	11/18/2011	DLC
TPH-Diesel Range	NWTPH-DX	**13000**	260	2	UG/L	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	**8600**	500	2	UG/L	11/18/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 5X Dilution	NWTPH-GX	**101**	11/18/2011	DLC
TFT	EPA-8021	**109**	11/18/2011	DLC
C25 2X Dilution	NWTPH-DX	**89.1**	11/18/2011	EBS

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

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2011 1111097 -03
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 12:35
CLIENT SAMPLE ID	B-4	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**220**	50	1	UG/L	11/18/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	11/18/2011	DLC
TPH-Diesel Range	NWTPH-DX	**470**	130	1	UG/L	11/21/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	11/21/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**97.0**	11/18/2011	DLC
TFT	EPA-8021	**107**	11/18/2011	DLC
C25	NWTPH-DX	**93.4**	11/21/2011	EBS

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

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	11/21/2011
		ALS JOB#:	1111097
		ALS SAMPLE#:	-04
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 13:30
CLIENT SAMPLE ID	B-5	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**160**	50	1	UG/L	11/17/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	11/17/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	11/17/2011	DLC
TPH-Diesel Range	NWTPH-DX	**400**	130	1	UG/L	11/21/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	11/21/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**100**	11/17/2011	DLC
TFT	EPA-8021	**106**	11/17/2011	DLC
C25	NWTPH-DX	**70.2**	11/21/2011	EBS

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

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ALS Laboratory Group A Campbell Brothers Limited Company

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS JOB#: ALS SAMPLE#:	11/21/2011 1111097 -05
CLIENT CONTACT:	Harold Cashman	DATE RECEIVED:	11/17/2011
CLIENT PROJECT:	North Cascade Ford	COLLECTION DATE:	11/15/2011 15:20
CLIENT SAMPLE ID	B-7	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	**3500**	500	10	UG/L	11/18/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	11/18/2011	DLC
Ethylbenzene	EPA-8021	**22**	1.0	1	UG/L	11/18/2011	DLC
Xylenes	EPA-8021	**25**	3.0	1	UG/L	11/18/2011	DLC
TPH-Diesel Range	NWTPH-DX	**380**	130	1	UG/L	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	11/18/2011	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	**110**	11/18/2011	DLC
TFT	EPA-8021	**133**	11/18/2011	DLC
C25	NWTPH-DX	**77.5**	11/18/2011	EBS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline and weathered diesel.
Diesel range product results biased high due to gasoline range product overlap.

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS SDG#: WDOE ACCREDITATION:	11/21/2011 1111097 C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY BLANK RESULTS

MBG-111511W - Batch 2294 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	11/15/2011	DLC

MB-111511W - Batch 2294 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	11/15/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	11/15/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	11/15/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	11/15/2011	DLC

MB-111811W - Batch 2299 - Water by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	11/18/2011	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	11/18/2011	EBS

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CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: ALS SDG#: WDOE ACCREDITATION:	11/21/2011 1111097 C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	North Cascade Ford		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2294 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**81.3**			11/17/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**81.0**	**0**		11/17/2011	DLC

ALS Test Batch ID: 2294 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	**108**			11/15/2011	DLC
Benzene - BSD	EPA-8021	**110**	**2**		11/15/2011	DLC
Toluene - BS	EPA-8021	**103**			11/15/2011	DLC
Toluene - BSD	EPA-8021	**104**	**1**		11/15/2011	DLC
Ethylbenzene - BS	EPA-8021	**99.6**			11/15/2011	DLC
Ethylbenzene - BSD	EPA-8021	**101**	**1**		11/15/2011	DLC
Xylenes - BS	EPA-8021	**101**			11/15/2011	DLC
Xylenes - BSD	EPA-8021	**102**	**1**		11/15/2011	DLC

ALS Test Batch ID: 2299 - Water by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**84.2**			11/18/2011	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**96.0**	**13**		11/18/2011	EBS

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Laboratory Director

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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): 1111097

Date 11/16/11 Page 1 Of 1

PROJECT ID: NORTH CASCADE FORD
REPORT TO COMPANY: WHATCOM ENV. SVCS
PROJECT MANAGER: HAROLD CASHMAN
ADDRESS: 228 E. CHAMPION ST #101
PHONE: (360) 752-9571 FAX:
P.O. NUMBER: E-MAIL: HJCASHMAN@WHATCOM...
INVOICE TO COMPANY: SAME AS ABOVE
ATTENTION: HS CASHMAN
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	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 ☐ Pri Poll ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. B-1	11/15/11	9:15	WATER	1		X	X	X													3	
2. B-2		10:10		2		X	X	X													3	
3. B-4		12:35		3		X	X	X													3	
4. B-5		1:30		4		X	X	X													2	
5. B-7		3:20		5		X	X	X													3	
6.																						
7.																						
8.																						
9.																						
10.																						

LABORATORY COPY

SPECIAL INSTRUCTIONS (PLEASE SEND RESULTS TO HAROLD CASHMAN AND DAN NEMBLANER)

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: WES 11/16/11 11:05
Received By:
2. Relinquished By:
Received By: Shawn Robinson ALS 11/17/11 1:10

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges