



July 26, 2016
G-Logics File 01-0294-E

Ms. Allison Natcher
Alaska Department of Environmental Conservation
Contaminated Sites Division
410 Willoughby Ave, Suite 303
PO Box 111800
Juneau, AK 99811

**Subject: Notification of a Petroleum Release from a Former Truck Loading Rack
Wards Cove Packing Company, c/o Jan Supler
Former Truck Loading Rack
147 Front Street
Hoonah, AK**

Dear Ms. Natcher:

G-Logics, Inc., on behalf of Wards Cove Packing Company (WCP), is submitting this notification of potential contamination to the State of Alaska and the Alaska Department of Environmental Conservation (ADEC) in accordance with regulations AS 46.03.755 and 18 AAC 75.300. Petroleum contaminants associated with historical releases from a former truck loading rack have been discovered in soil located at 147 Front Street, Hoonah, Alaska.

Based on currently available information, Chevron was an active operator at the site from the 1940s to the 1980s. Through a joint venture, WCP also has had an interest in the site since the mid-1970s.

In the spring of 2015, WCP retained a contractor to remove supply lines associated with the truck loading rack. Concurrently, WCP retained G-Logics to perform an environmental investigation assessing the potential for soil, groundwater, and/or surface water contamination associated with the truck loading rack operation. Details regarding this exploration are presented in the attached report dated July 17, 2015.

G-Logics, Inc.
40 2nd Avenue SE
Issaquah, WA 98027
T: 425-391-6874
F: 425-313-3074

G-Logics and WCP would like to work with ADEC to develop a site characterization plan, as well as potential remediation alternatives, for the petroleum contaminants suspected in the soil, groundwater, and/or surface water at the property. It is the goal of WCP to limit future liabilities associated with the property.

Closing

We look forward to the opportunity to work with ADEC. Please contact us at your convenience with any questions or comments at (425) 391-6874 or stuarth@G-Logics.com.

Sincerely,
G-Logics, Inc.

Rory L. Galloway, LG, LHG
Principal

Stuart Hyde
Project Geologist

Attachments

G-Logics Report, *Soil Sampling, Former Truck Loading Rack Area*, dated July 17, 2015.



July 17, 2015
G-Logics Project Number 01-0294-D

Wards Cove Packing Company
Mr. Jan Supler
PO Box 5030
Seattle, WA 98105

**Subject: Soil Sampling, Former Truck Loading Rack
 Hoonah Fueling
 147 Front Street
 Hoonah, AK 99829**

Dear Mr. Supler:

G-Logics was authorized by Wards Cove Packing Company (WCP) to conduct a site exploration at the above-referenced property (Figure 1). It is G-Logics understanding that Chevron was an active operator at the property from the 1940s to the 1980s. Through a joint venture, WCP also has had an interest in the site since the mid-1970s and has initiated the environmental exploration at the site.

G-Logics work was requested to assess the possible presence of soil and/or groundwater contamination associated with the truck-loading rack located to the north of the Hoonah Trading Company store. This sampling work was performed shortly after the demolition of the fueling system associated with the truck-loading rack. The demolition was performed by Spooner Contracting, LLC (Spooner).

The scope of this exploration was based on our current knowledge of site conditions and our experience with similar projects. This report documents the performed soil sampling at the subject property (Property). This site information also will be used to assess the need for future cleanup activities.

G-Logics, Inc.
40 2nd Avenue SE
Issaquah, WA 98027
T: 425-391-6874
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01-0294-D-RT-Truck Rack.doc

G-Logics Services

A G-Logics geologist was present at the Property to perform a site exploration after the completion of the tank decommissioning and removal work. All sampling work was performed by a “Qualified Person” as required by 18 AAC 75. Environmental-sampling procedures followed ADEC’s *Draft Field Sampling Guidance (May 2010)*. Soil samples were submitted for analysis to an Alaska accredited analytical laboratory in accordance with Table 2B of the ADEC Draft Field Sampling Guidance document (May 2010).

The intent of this effort was to assess the potential for soil contamination in association with the former truck loading rack, used for loading fuel-delivery trucks. Soil-sampling locations are presented on Figure 2. At this location, samples were collected using hand-operated equipment (e.g., shovel or trowel). Site photographs showing the Property and significant features are presented at the end of this document. Site-photograph locations are shown on Figure 3.

Soil Testpit

Because of the nature of the loading rack assembly (predominantly a concrete slab with highly compacted structural fill to the west), only one testpit was advanced in this area during the exploration (shown on Figure 2). Due to overhead clearance issues, the testpit was advanced using hand-operated equipment. Soil samples were collected from the testpit at a depth of 0.5 feet with the testpit terminated at this depth due to refusal. The testpit encountered light to dark brown and gray (stained), dry, gravelly sands with silts (fill). Perched groundwater was not present in the testpit. Please refer to Appendix A for more detail regarding site exploration methods.

Soil Samples

The collected soil samples were field screened for petroleum contaminants (i.e., visible staining/discoloration, odors, and sheen) with a representative sample submitted for laboratory analysis. The sample was submitted and analyzed for the following analyses: gasoline-range organics (GRO), diesel-range organics (DRO), residual-range organics (RRO), and lead.

A summary of soil-sample results is presented in Table 1 of this report. The analytical laboratory report for the analyzed soil sample is attached as Appendix B (along with analytical results of sample collected in additional areas). A copy of the completed chain-of-

custody form also is included in Appendix B. The findings of the performed soil analyses are presented below.

Petroleum Hydrocarbons

G-Logics submitted one sample from the advanced testpit for petroleum-hydrocarbon analysis. The sample contained concentrations of GRO, DRO, and RRO above laboratory reporting limits. Only DRO was detected at a concentration exceeding cleanup levels, with the concentration exceeding both the ADEC Method 2 migration to groundwater and direct contact/ingestion cleanup levels.

Volatile Organic Compounds and Lead

Lead was detected in the sample at a concentration below the Method 2 cleanup level of 400 mg/kg. Although below the cleanup level, the detected concentration of lead was slightly above the natural background levels, as presented in the USGS publication titled *Element Concentrations in Soils and other Surficial Materials of Alaska* (dated 1988).

Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) included generally accepted procedures for sample collection, storage, tracking, documentation, and analysis. All sampling equipment was washed with an “Alconox” wash and distilled water rinse before the collection of the samples. All samples were labeled with a sample number, date, time, and sampler name, and were stored in an ice chest containing frozen blue ice. Appropriate chain-of-custody documentation was completed.

The laboratory also conducted matrix spike, matrix-spike duplicate, and method blank analyses. Laboratory QA/QC information is included (with the laboratory report) in Appendix B.

Conclusions

Information regarding the site assessment findings and our conclusions concerning the potential presence of soil and/or shallow groundwater contamination on the subject property is presented below.

- The completed testpit encountered light to dark brown and gray (stained), dry, gravelly sands with silts (fill).

- Perched groundwater was not encountered in the testpit.
- ADEC Method 2 Migration to Groundwater and Direct Contact/Ingestion cleanup levels for DRO was exceeded in the collected sample.
- The detected lead concentration was compared to Method 2 cleanup levels and natural background levels as presented in the USGS publication titled *Element Concentrations in Soils and other Surficial Materials of Alaska* (dated 1988). Lead was detected at a concentration slightly above the natural background level.
- The source of localized diesel contamination present near the former truck-rack assembly appears to be associated with surface spills and overfills during operation of the truck rack.

OPINIONS AND RECOMMENDATIONS

Based on the findings of this sampling event, a release of GRO, DRO and RRO petroleum hydrocarbons has occurred at the former truck-rack assembly. The release appears to be associated with the surface spills and overfills during loading-rack operation. Due to the low overhead clearance in the area, only hand-operated equipment could be used during the sampling. In addition, the soil to the west of the loading rack was compacted structural fill, limiting the extent of the exploration.

However, because the majority of the area is covered with concrete and no underground fueling features are present, the extent of contamination is likely to be limited in lateral and vertical extent. Because of this, G-Logics recommends mitigating the possible exposure pathways (direct contact/ingestion) by removing accessible petroleum-contaminated soil and/or extending the concrete slab over the contaminated area.

Limitations

Our services were non-comprehensive and were not intended to identify all environmental problems or eliminate all risk. Please be aware our scope of work was limited to those items specifically described above. Other activities that are not specifically described are excluded and are therefore not part of our services.

Land use, site conditions (both on-site and off-site), and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the

completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the site visit.

The property owner is solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials identified at the project site. G-Logics assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

This report is prepared for the sole use of our client. The scope of services performed during this assessment may not be appropriate for the needs of other users. Re-use of this document or the findings, conclusions, or recommendations presented herein, are at the sole risk of said user(s). Our client and regulatory agencies also may make additional copies of this document for their internal and public use, or as required by law. All other users of this document must acknowledge our copyright and indicate that permission to use has been received from G-Logics and our Client. Any party other than our client who would like to use this report shall notify G-Logics of such intended use by executing the "Permission and Conditions for Use and Copying" contained in this document. Based on the intended use of the report, G-Logics may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements will release G-Logics from any liability resulting from the use of this report by any unauthorized party.

No warranty, either express or implied, is made.

Closing

We appreciate this opportunity to provide our services to WCP. Please contact us at your convenience with any questions regarding our work or findings.

Sincerely,
G-Logics, Inc.

Rory L. Galloway, LG, LHG
Principal

Stuart Hyde
Project Geologist

FIGURES

Figure 1: Site Location Maps
Figure 2: Site Diagram, Soil Sampling Locations
Figure 3: Site Diagram, Photograph Locations

TABLES

Table 1 Soil Sample Analyses

APPENDICES

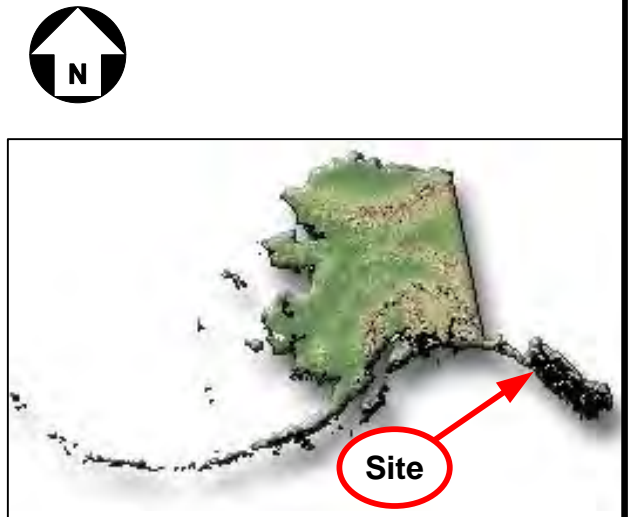
Appendix A: Field Exploration Methods
Appendix B: Laboratory Data and Chain-of-Custody Documents

PHOTOGRAPHS

ATTACHMENTS

Attachment A: Permission and Conditions for Use and Copying

FIGURES

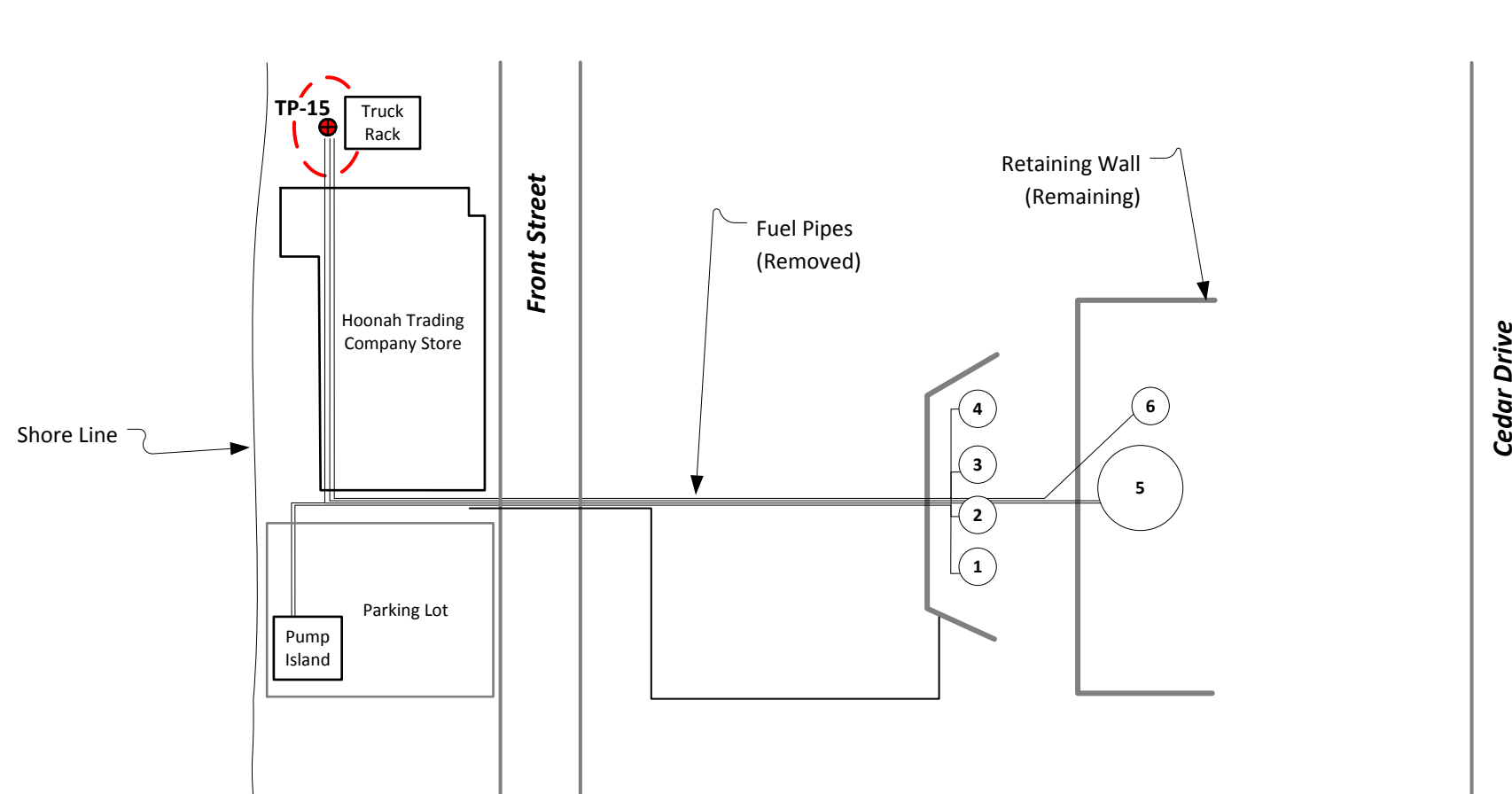


Project File: 01-0294-D-RT-F1.vsd

g-logics

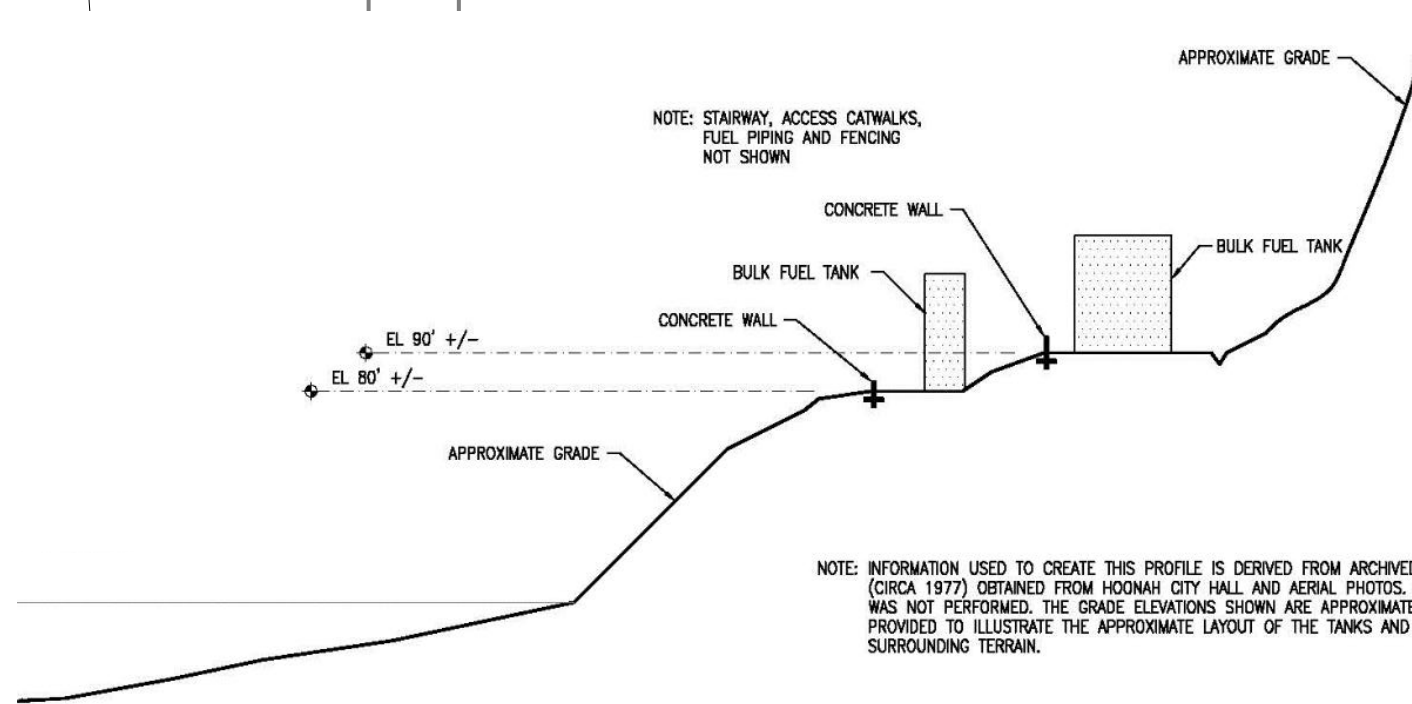
Site Location Maps
Hoonah Fueling, Truck Loading Rack
147 Front Street
Hoonah, Alaska

Figure
 1



NOTE: BULK FUEL TANK CONSTRUCTION CONSISTS OF A STEEL PLATE SHELL WITH PANEL EDGES BOTH RIVETED AND WELDED.

TANK ID	DIAMETER	HEIGHT
#1	10'-6"	30'-6"
#2	10'-6"	30'-6"
#3	10'-6"	30'-6"
#4	10'-6"	30'-6"
#5	25'-3"	30'-6"
#6	12'-3"	30'-6"



NOTE: STAIRWAY, ACCESS CATWALKS, FUEL PIPING AND FENCING NOT SHOWN

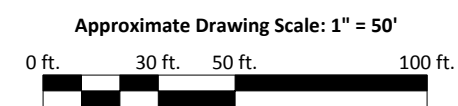
NOTE: INFORMATION USED TO CREATE THIS PROFILE IS DERIVED FROM ARCHIVED SITE PLANS (CIRCA 1977) OBTAINED FROM HOONAH CITY HALL AND AERIAL PHOTOS. A TOPOGRAPHIC LAND SURVEY WAS NOT PERFORMED. THE GRADE ELEVATIONS SHOWN ARE APPROXIMATE AND ARE ONLY PROVIDED TO ILLUSTRATE THE APPROXIMATE LAYOUT OF THE TANKS AND STEEPNESS OF THE SURROUNDING TERRAIN.

Legend

- Soil Sampling Location with Petroleum Concentration Exceeding Method 2 Cleanup Levels
- Soil Sampling Location with Petroleum Concentration Below Method 2 Cleanup Levels
- Interpreted Extent of Petroleum-Contaminated Soil with Concentrations above ADEC Method 2 Cleanup Levels
- Tank Location and Number



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



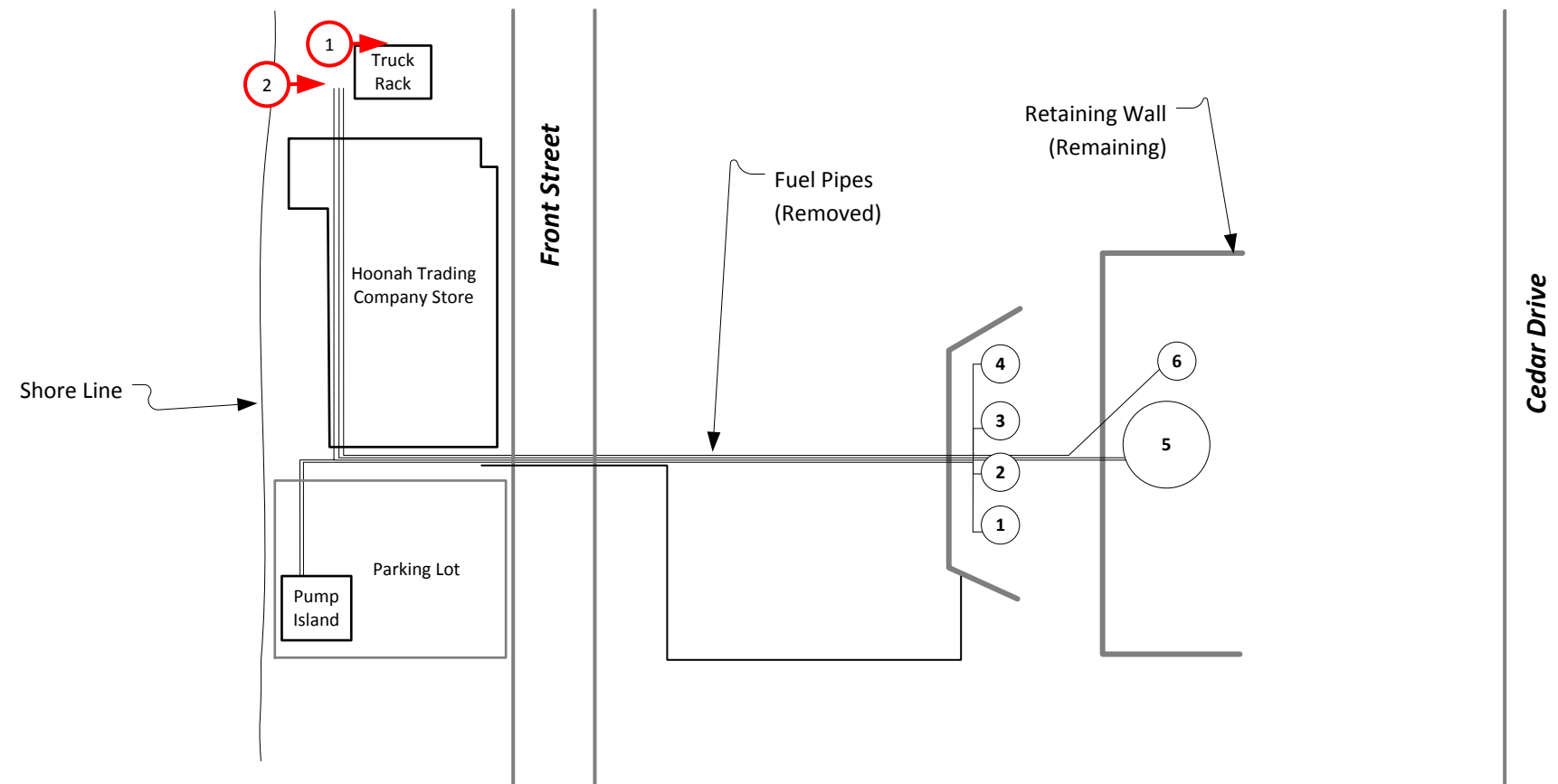
Note: Base map information and above cross section were obtained from mapping prepared by Orion Pacific, LLC

Site Diagram, Soil Sampling Locations
Hoonah Fueling, Truck Loading Rack
147 Front Street
Hoonah, Alaska

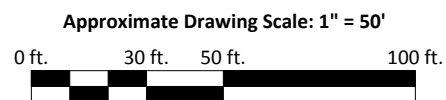
Figure
2



Port Frederick



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



Legend

① Photograph Location

Project File: 01-0294-D-RT-F3.vsd



Note: Base map information was obtained from mapping prepared by Orion Pacific, LLC

Site Diagram, Photograph Locations
Hoonah Fueling, Truck Loading Rack
147 Front Street
Hoonah, Alaska

Figure
3

TABLES

TABLE 1
Soil Sample Analyses, Truck Loading Rack
Hoonah Fueling, 147 Front Street, Hoonah, AK 99829

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	C6-C10 Gasoline Range Organics (GRO)	C10-C25 Diesel Range Organics (DRO)	C25-C36 Residual Range Organics (RRO)	Lead
(units in mg/kg)				AK 101, 102, and 103			EPA 6020
TP-15	5/5/2015	TP-15-0.5'	0.5	26	13,300 E	367	21.4
Method 2 Migration to Groundwater, Over 40 Inch Zone (1)				260	230	9,700	N/A
Method 2 Direct Contact/Ingestion, Over 40 inch Zone (1)				1,400	8,250	8,300	400

- Notes:** Refer to site diagram(s) for sampling locations.
- (1) Available Method Two Cleanup Levels for Alaska Department of Environmental Conservation, June 2015.
 - N/A Not Applicable
 - Not Analyzed
 - nd Not Detected at Laboratory Reporting Limit
 - 26** Bold Number(s) Indicates Contaminant Detected.
 - 1,000** Bold Number(s) and Blue Shading Indicates Concentration Exceeds Method 2 Migration to Groundwater Cleanup Level.
 - 1,000** Bold Number(s) and Orange Shading Indicates Concentration Exceeds Method 2 Direct Contact/Ingestion Cleanup Level.
 - D Dilution Was Required
 - E Value Above Quantitation Limit
 - H Holding times for preparation or analysis exceeded

APPENDIX A

APPENDIX A

FIELD EXPLORATION METHODS

G-Logics performed shallow soil sampling during the assessment conducted on the subject property. The sampling activities were conducted in general accordance with ADEC's guidelines and regulations.

Underground Utility Clearance

G-Logics understands that the contractor conducting the tank removal will be coordinating all necessary utility locates and protection for the project.

Quality Assurance Quality Control

Quality Assurance/Quality Control (QA/QC) for the presented scope of work included generally accepted procedures for sample collection, storage, tracking, and documentation. All sampling equipment was washed with a detergent wash and tap water rinse before the collection of the samples. All samples were labeled with a sample number, date, time, and sampler name, and were stored in an ice chest containing frozen "blue ice". Appropriate chain-of-custody documentation was completed.

Shallow Soil Sampling

A G-Logics employee performed the shallow soil sampling. Because of various ground surface and soil conditions at sampling locations, the following techniques were used to collect soil samples.

- A shallow testpit was hand excavated by shovel to the sampling depth. A clean spoon or trowel was then used to expose undisturbed soil. Soil samples were placed directly into laboratory-provided glass containers with Teflon lined lids.
- EPA Method 8260 was used for collection of samples to be analyzed for volatile constituents (GRO, BTEX, VOCs). Samples were collected from the testpit core using an Easy Draw Syringe and Powerstop Handle. The soil plug was then extruded into a laboratory-supplied 4 ounce glass jar containing 20 mL of methanol preservative.

The G-Logics employee screened the collected soil samples for evidence of contamination, indicated by noticeable odor, visible staining, or discoloration in the soil sample.

All soil samples were stored in an ice chest containing frozen “blue ice” for preservation prior to being forwarded to the analytical laboratory (using proper Chain-of-Custody procedures). All soil sample containers were labeled with sample identification numbers, the date, and the sampler's name.

APPENDIX B



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

G-Logics

Stuart Hyde
40 Second Ave. SE
Issaquah, WA 98027

RE: Hoonah Tank Farm

Lab ID: 1505013

May 08, 2015

Attention Stuart Hyde:

Fremont Analytical, Inc. received 3 sample(s) on 5/1/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by AK102-AK103

Gasoline Range Organics by AK101

Sample Moisture (Percent Moisture)

Total Metals by EPA Method 6020

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President



Date: 05/08/2015

CLIENT: G-Logics
Project: Hoonah Tank Farm
Lab Order: 1505013

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505013-001	A-12'	04/27/2015 10:00 AM	05/01/2015 5:45 PM
1505013-002	B-16'	04/27/2015 10:30 AM	05/01/2015 5:45 PM
1505013-003	C-24'	04/27/2015 12:00 PM	05/01/2015 5:45 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: G-Logics
Project: Hoonah Tank Farm

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

WO#: 1505013
Date Reported: 5/8/2015

Client: G-Logics

Collection Date: 4/27/2015 10:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505013-001

Matrix: Soil

Client Sample ID: A-12'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10682 Analyst: EM

Diesel Range Organics (C10-C25)	29,000	20.8	E	mg/Kg-dry	1	5/4/2015 2:15:00 PM
Residual Range Organics (C25-C36)	267	52.1		mg/Kg-dry	1	5/4/2015 2:15:00 PM
Surr: 2-Fluorobiphenyl	180	50-150	S	%REC	1	5/4/2015 2:15:00 PM
Surr: o-Terphenyl	60.6	50-150		%REC	1	5/4/2015 2:15:00 PM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Gasoline Range Organics by AK101

Batch ID: 10685 Analyst: BC

Gasoline Range Organics (C6-C10)	1,210	5.38	E	mg/Kg-dry	1	5/4/2015 12:53:00 PM
Surr: 1,4-Difluorobenzene	87.5	50-150		%REC	1	5/4/2015 12:53:00 PM
Surr: 4-Bromofluorobenzene	138	50-150		%REC	1	5/4/2015 12:53:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10715 Analyst: AK

1,2-Dichloroethane	ND	0.0323		mg/Kg-dry	1	5/7/2015 1:28:00 AM
Benzene	0.0802	0.0215		mg/Kg-dry	1	5/7/2015 1:28:00 AM
Toluene	0.626	0.0215		mg/Kg-dry	1	5/7/2015 1:28:00 AM
1,2-Dibromoethane (EDB)	ND	0.00538		mg/Kg-dry	1	5/7/2015 1:28:00 AM
Ethylbenzene	10.2	1.61	D	mg/Kg-dry	50	5/6/2015 11:36:00 PM
m,p-Xylene	55.2	1.08	D	mg/Kg-dry	50	5/6/2015 11:36:00 PM
o-Xylene	10.8	1.08	D	mg/Kg-dry	50	5/6/2015 11:36:00 PM
Naphthalene	75.1	1.61	D	mg/Kg-dry	50	5/6/2015 11:36:00 PM
Surr: Dibromofluoromethane	92.9	63.7-129		%REC	1	5/7/2015 1:28:00 AM
Surr: Toluene-d8	122	64.3-131		%REC	1	5/7/2015 1:28:00 AM
Surr: 1-Bromo-4-fluorobenzene	94.8	63.1-141		%REC	1	5/7/2015 1:28:00 AM

Total Metals by EPA Method 6020

Batch ID: 10712 Analyst: TN

Lead	58.0	0.177		mg/Kg-dry	1	5/6/2015 4:45:23 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22126 Analyst: CG

Percent Moisture	13.8			wt%	1	5/4/2015 9:41:12 AM
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Analytical Report

WO#: 1505013
Date Reported: 5/8/2015

Client: G-Logics

Collection Date: 4/27/2015 10:30:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505013-002

Matrix: Soil

Client Sample ID: B-16'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10682 Analyst: EM

Diesel Range Organics (C10-C25)	44,800	22.1	E	mg/Kg-dry	1	5/4/2015 2:46:00 PM
Residual Range Organics (C25-C36)	417	55.4		mg/Kg-dry	1	5/4/2015 2:46:00 PM
Surr: 2-Fluorobiphenyl	327	50-150	S	%REC	1	5/4/2015 2:46:00 PM
Surr: o-Terphenyl	150	50-150		%REC	1	5/4/2015 2:46:00 PM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Gasoline Range Organics by AK101

Batch ID: 10685 Analyst: BC

Gasoline Range Organics (C6-C10)	1,720	4.27	E	mg/Kg-dry	1	5/4/2015 1:27:00 PM
Surr: 1,4-Difluorobenzene	83.5	50-150		%REC	1	5/4/2015 1:27:00 PM
Surr: 4-Bromofluorobenzene	158	50-150	S	%REC	1	5/4/2015 1:27:00 PM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10715 Analyst: AK

1,2-Dichloroethane	ND	0.0512	D	mg/Kg-dry	2	5/7/2015 1:00:00 AM
Benzene	0.0410	0.0341	D	mg/Kg-dry	2	5/7/2015 1:00:00 AM
Toluene	0.276	0.0341	D	mg/Kg-dry	2	5/7/2015 1:00:00 AM
1,2-Dibromoethane (EDB)	ND	0.00854	D	mg/Kg-dry	2	5/7/2015 1:00:00 AM
Ethylbenzene	8.41	1.28	D	mg/Kg-dry	50	5/6/2015 11:08:00 PM
m,p-Xylene	68.0	0.854	D	mg/Kg-dry	50	5/6/2015 11:08:00 PM
o-Xylene	1.49	0.0341	D	mg/Kg-dry	2	5/7/2015 1:00:00 AM
Naphthalene	90.9	1.28	D	mg/Kg-dry	50	5/6/2015 11:08:00 PM
Surr: Dibromofluoromethane	94.0	63.7-129	D	%REC	2	5/7/2015 1:00:00 AM
Surr: Toluene-d8	127	64.3-131	D	%REC	2	5/7/2015 1:00:00 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	63.1-141	D	%REC	2	5/7/2015 1:00:00 AM

NOTES:

Sample analyzed at a dilution due to limited volume.

Total Metals by EPA Method 6020

Batch ID: 10712 Analyst: TN

Lead	79.8	0.172		mg/Kg-dry	1	5/6/2015 5:06:35 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22126 Analyst: CG

Percent Moisture	10.6			wt%	1	5/4/2015 9:41:12 AM
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Analytical Report

WO#: 1505013
Date Reported: 5/8/2015

Client: G-Logics

Collection Date: 4/27/2015 12:00:00 PM

Project: Hoonah Tank Farm

Lab ID: 1505013-003

Matrix: Soil

Client Sample ID: C-24'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10682 Analyst: EM

Diesel Range Organics (C10-C25)	33,600	20.2	E	mg/Kg-dry	1	5/4/2015 3:17:00 PM
Residual Range Organics (C25-C36)	375	50.5		mg/Kg-dry	1	5/4/2015 3:17:00 PM
Surr: 2-Fluorobiphenyl	205	50-150	S	%REC	1	5/4/2015 3:17:00 PM
Surr: o-Terphenyl	96.3	50-150		%REC	1	5/4/2015 3:17:00 PM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Gasoline Range Organics by AK101

Batch ID: 10685 Analyst: BC

Gasoline Range Organics (C6-C10)	632	4.42	E	mg/Kg-dry	1	5/4/2015 2:01:00 PM
Surr: 1,4-Difluorobenzene	86.9	50-150		%REC	1	5/4/2015 2:01:00 PM
Surr: 4-Bromofluorobenzene	146	50-150		%REC	1	5/4/2015 2:01:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10715 Analyst: AK

1,2-Dichloroethane	ND	0.0265		mg/Kg-dry	1	5/7/2015 12:04:00 AM
Benzene	ND	0.0177		mg/Kg-dry	1	5/7/2015 12:04:00 AM
Toluene	0.0274	0.0177		mg/Kg-dry	1	5/7/2015 12:04:00 AM
1,2-Dibromoethane (EDB)	0.00442	0.00442		mg/Kg-dry	1	5/7/2015 12:04:00 AM
Ethylbenzene	0.122	0.0265		mg/Kg-dry	1	5/7/2015 12:04:00 AM
m,p-Xylene	0.544	0.0177		mg/Kg-dry	1	5/7/2015 12:04:00 AM
o-Xylene	0.245	0.0177		mg/Kg-dry	1	5/7/2015 12:04:00 AM
Naphthalene	ND	0.0265		mg/Kg-dry	1	5/7/2015 12:04:00 AM
Surr: Dibromofluoromethane	94.4	63.7-129		%REC	1	5/7/2015 12:04:00 AM
Surr: Toluene-d8	109	64.3-131		%REC	1	5/7/2015 12:04:00 AM
Surr: 1-Bromo-4-fluorobenzene	100	63.1-141		%REC	1	5/7/2015 12:04:00 AM

Total Metals by EPA Method 6020

Batch ID: 10712 Analyst: TN

Lead	73.9	0.172		mg/Kg-dry	1	5/6/2015 5:10:06 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22126 Analyst: CG

Percent Moisture	14.0			wt%	1	5/4/2015 9:41:12 AM
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Work Order: 1505013
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID MB-10712	SampType: MBLK	Units: mg/Kg		Prep Date: 5/6/2015	RunNo: 22203						
Client ID: MBLKS	Batch ID: 10712			Analysis Date: 5/6/2015	SeqNo: 421490						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID LCS-10712	SampType: LCS	Units: mg/Kg		Prep Date: 5/6/2015	RunNo: 22203						
Client ID: LCSS	Batch ID: 10712			Analysis Date: 5/6/2015	SeqNo: 421491						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 135 0.200 138.0 0 97.8 73.2 127.5

Sample ID 1505013-001ADUP	SampType: DUP	Units: mg/Kg-dry		Prep Date: 5/6/2015	RunNo: 22203						
Client ID: A-12'	Batch ID: 10712			Analysis Date: 5/6/2015	SeqNo: 421493						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 66.8 0.177 57.98 14.1 20

Sample ID 1505013-001AMS	SampType: MS	Units: mg/Kg-dry		Prep Date: 5/6/2015	RunNo: 22203						
Client ID: A-12'	Batch ID: 10712			Analysis Date: 5/6/2015	SeqNo: 421495						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 84.3 0.176 21.97 57.98 120 75 125

Sample ID 1505013-001AMSD	SampType: MSD	Units: mg/Kg-dry		Prep Date: 5/6/2015	RunNo: 22203						
Client ID: A-12'	Batch ID: 10712			Analysis Date: 5/6/2015	SeqNo: 421496						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 69.7 0.173 21.64 57.98 54.3 75 125 84.29 18.9 20 S

NOTES:

S - Outlying spike recovery observed for Pb. MS recovered within specification.

Work Order: 1505013
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID LCS-10682	SampType: LCS	Units: mg/Kg				Prep Date: 5/4/2015	RunNo: 22154				
Client ID: LCSS	Batch ID: 10682					Analysis Date: 5/4/2015	SeqNo: 420607				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	468	20.0	500.0	0	93.7	75	125				
Surr: 2-Fluorobiphenyl	22.2		20.00		111	60	120				
Surr: o-Terphenyl	20.1		20.00		100	60	120				

Sample ID LCSD-10682	SampType: LCSD	Units: mg/Kg				Prep Date: 5/4/2015	RunNo: 22154				
Client ID: LCSS02	Batch ID: 10682					Analysis Date: 5/4/2015	SeqNo: 420608				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	469	20.0	500.0	0	93.9	75	125	468.3	0.214	20	
Surr: 2-Fluorobiphenyl	21.7		20.00		109	60	120		0	0	
Surr: o-Terphenyl	19.7		20.00		98.4	60	120		0	0	

Sample ID MB-10682	SampType: MBLK	Units: mg/Kg				Prep Date: 5/4/2015	RunNo: 22154				
Client ID: MBLKS	Batch ID: 10682					Analysis Date: 5/4/2015	SeqNo: 420609				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	20.5		20.00		103	60	120				
Surr: o-Terphenyl	19.9		20.00		99.6	60	120				

Work Order: 1505013
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID 1505013-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 5/4/2015	RunNo: 22149							
Client ID: A-12'	Batch ID: 10685		Analysis Date: 5/4/2015	SeqNo: 420493							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	1,270	5.38						1,206	5.48	20	E
Surr: 1,4-Difluorobenzene	0.225		0.2690		83.8	50	150		0	0	
Surr: 4-Bromofluorobenzene	0.370		0.2690		138	50	150		0		

Sample ID 1505013-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/4/2015	RunNo: 22149							
Client ID: B-16'	Batch ID: 10685		Analysis Date: 5/4/2015	SeqNo: 420494							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	1,800	4.27	21.34	1,723	356	60	120				SE
Surr: 1,4-Difluorobenzene	0.172		0.2134		80.4	60	120				
Surr: 4-Bromofluorobenzene	0.331		0.2134		155	60	120				S

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Sample ID LCS-10685	SampType: LCS	Units: mg/Kg	Prep Date: 5/4/2015	RunNo: 22149							
Client ID: LCSS	Batch ID: 10685		Analysis Date: 5/4/2015	SeqNo: 420496							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	23.6	5.00	25.00	0	94.2	60	120				
Surr: 1,4-Difluorobenzene	0.230		0.2500		91.9	60	120				
Surr: 4-Bromofluorobenzene	0.223		0.2500		89.1	60	120				

Sample ID MB-10685	SampType: MBLK	Units: mg/Kg	Prep Date: 5/4/2015	RunNo: 22149							
Client ID: MBLKS	Batch ID: 10685		Analysis Date: 5/4/2015	SeqNo: 420497							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	ND	5.00									
Surr: 1,4-Difluorobenzene	0.239		0.2500		95.7	60	120				
Surr: 4-Bromofluorobenzene	0.216		0.2500		86.3	60	120				



Date: 5/8/2015

Work Order: 1505013
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1505013-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/6/2015	RunNo:	22207		
Client ID:	C-24'	Batch ID:	10715			Analysis Date:	5/7/2015	SeqNo:	421599		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	ND	0.0265						0		30	
Benzene	ND	0.0177						0		30	
Toluene	0.0283	0.0177						0.02740	3.17	30	
1,2-Dibromoethane (EDB)	ND	0.00442						0.004419	200	30	
Ethylbenzene	0.121	0.0265						0.1215	0.730	30	
m,p-Xylene	0.542	0.0177						0.5440	0.407	30	
o-Xylene	0.238	0.0177						0.2448	2.93	30	
Naphthalene	ND	0.0265						0		30	
Surr: Dibromofluoromethane	1.05		1.105		94.8	63.7	129		0		
Surr: Toluene-d8	1.21		1.105		109	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.03		1.105		93.0	63.1	141		0		

Sample ID	1505039-001BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	5/6/2015	RunNo:	22207		
Client ID:	BATCH	Batch ID:	10715			Analysis Date:	5/6/2015	SeqNo:	421600		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	1.94	0.0633	2.111	0	91.7	51.3	139				
Benzene	2.17	0.0422	2.111	0	103	63.5	133				
Toluene	2.09	0.0422	2.111	0.01161	98.5	63.4	132				
1,2-Dibromoethane (EDB)	2.13	0.0106	2.111	0	101	50.4	136				
Ethylbenzene	2.34	0.0633	2.111	0	111	54.5	134				
m,p-Xylene	4.80	0.0422	4.221	0	114	53.1	132				
o-Xylene	2.28	0.0422	2.111	0	108	53.3	139				
Naphthalene	2.34	0.0633	2.111	0.05805	108	52.3	124				
Surr: Dibromofluoromethane	2.50		2.638		94.7	63.7	129				
Surr: Toluene-d8	2.52		2.638		95.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.63		2.638		99.7	63.1	141				



Work Order: 1505013
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-10715	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/6/2015	RunNo:	22207		
Client ID:	LCSS	Batch ID:	10715			Analysis Date:	5/6/2015	SeqNo:	421604		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	0.896	0.0300	1.000	0	89.6	61.9	136				
Benzene	0.962	0.0200	1.000	0	96.2	64.3	133				
Toluene	0.954	0.0200	1.000	0	95.4	67.3	138				
1,2-Dibromoethane (EDB)	0.998	0.00500	1.000	0	99.8	70	130				
Ethylbenzene	1.03	0.0300	1.000	0	103	74	129				
m,p-Xylene	2.10	0.0200	2.000	0	105	79.8	128				
o-Xylene	0.994	0.0200	1.000	0	99.4	72.7	124				
Naphthalene	1.06	0.0300	1.000	0	106	62.3	134				
Surr: Dibromofluoromethane	1.20		1.250		95.6	63.7	129				
Surr: Toluene-d8	1.24		1.250		99.3	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141				

Sample ID	MB-10715	SampType:	MBLK	Units:	mg/Kg	Prep Date:	5/6/2015	RunNo:	22207		
Client ID:	MBLKS	Batch ID:	10715			Analysis Date:	5/6/2015	SeqNo:	421605		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	ND	0.0300									
Benzene	ND	0.0200									
Toluene	ND	0.0200									
1,2-Dibromoethane (EDB)	ND	0.00500									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Naphthalene	ND	0.0300									
Surr: Dibromofluoromethane	1.21		1.250		97.1	63.7	129				
Surr: Toluene-d8	1.25		1.250		99.6	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141				



Sample Log-In Check List

Client Name: GL	Work Order Number: 1505013
Logged by: Clare Griggs	Date Received: 5/1/2015 5:45:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody seals intact on shipping container/cooler? Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all coolers received at a temperature of >0°C to 10.0°C Yes No NA
- Please refer to item information.
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is the headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	19.2	
Sample	14.4	



Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-2178

Date: 4/27 5/1/15

Laboratory Project No (Internal): 150550133A

Project Name: Heard AK

Location: Heard AK

Collected by: B. H. Spencer

Client: G-Logies
Address: 40 2nd Ave SE
City, State, Zip: Issaquah Tel: 425 391 6374 Fax: 509 225 1011
Reports To (PM): SH Email: sh@stuart-h.com Project No: 01-0394-D

*Matrix Codes: A - Air, AQ - Aquatics, B - Bulk, D - Other, P - Product, S - Soil, SG - Sediment, SL - Solid, W - Water, DW - Drinking Water, GW - Ground Water, WW - Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 246)	GV/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HI)	Distillate/Heptane Oil Range Organics (DO)	SEM-VOL (EPA 8270)	PAH (EPA 8270-SIM)	ICAH (EPA 8082)	Metals** (62nd / 200.8)	Total (1) Dissolved (D)	Alloys (IC)**	EDR (M11)	Comments/Depth
A-121'	4/17	1000	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1402 ft
B-16'		1030	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
C-24'		1000	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	vol. not tested
																	1. Magnesium
																	2. Add Analyte's per client request 5/15/15
																	3. Day rpt due 5/11/15

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O Phosphate Fluoride Nitrate-Nitrite
 Sample Disposal: Return to Client Disposal by Lab (if not specified, sample will be disposed of in accordance with RCRA 301(d))
 Analytical: 5/15/15 5:45 Date/Time
 Requester: [Signature] Date/Time
 Received: [Signature] Date/Time
 TAT -> Same Day Next Day 2 Day 3 Day STD
 Please coordinate with the lab in advance



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

G-Logics

Stuart Hyde
40 Second Ave. SE
Issaquah, WA 98027

RE: Hoonah Tank Farm

Lab ID: 1505059

July 13, 2015

Attention Stuart Hyde:

Fremont Analytical, Inc. received 18 sample(s) on 5/7/2015 for the analyses presented in the following report.

- Diesel and Heavy Oil by AK102-AK103***
- Gasoline Range Organics by AK101***
- Sample Moisture (Percent Moisture)***
- Total Metals by EPA Method 6020***
- Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President



Date: 07/13/2015

CLIENT: G-Logics
Project: Hoonah Tank Farm
Lab Order: 1505059

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505059-001	TP-1-0.5'	05/05/2015 8:45 AM	05/07/2015 11:02 AM
1505059-002	TP-2-1.5'	05/05/2015 9:00 AM	05/07/2015 11:02 AM
1505059-003	TP-3-0.5'	05/05/2015 9:30 AM	05/07/2015 11:02 AM
1505059-004	TP-3-2'	05/05/2015 9:45 AM	05/07/2015 11:02 AM
1505059-005	TP-4-0.5'	05/05/2015 10:05 AM	05/07/2015 11:02 AM
1505059-006	TP-5-0.5'	05/05/2015 10:00 AM	05/07/2015 11:02 AM
1505059-007	TP-6-0.5'	05/05/2015 10:10 AM	05/07/2015 11:02 AM
1505059-008	TP-7-0.5'	05/05/2015 10:45 AM	05/07/2015 11:02 AM
1505059-009	TP-8-2'	05/05/2015 11:00 AM	05/07/2015 11:02 AM
1505059-010	TP-9-1'	05/05/2015 11:05 AM	05/07/2015 11:02 AM
1505059-011	TP-10-1.5'	05/05/2015 11:15 AM	05/07/2015 11:02 AM
1505059-012	TP-11-1.5'	05/05/2015 11:30 AM	05/07/2015 11:02 AM
1505059-013	TP-12-1'	05/05/2015 11:45 AM	05/07/2015 11:02 AM
1505059-014	TP-13-0.5'	05/05/2015 4:15 PM	05/07/2015 11:02 AM
1505059-015	TP-14-0.5'	05/05/2015 4:17 PM	05/07/2015 11:02 AM
1505059-016	TP-15-0.5'	05/05/2015 4:20 PM	05/07/2015 11:02 AM
1505059-017	TP-16-0.5'	05/05/2015 4:25 PM	05/07/2015 11:02 AM
1505059-018	Trip Blank	04/30/2015 10:26 AM	05/07/2015 11:02 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: G-Logics
Project: Hoonah Tank Farm

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 8:45:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-001

Matrix: Soil

Client Sample ID: TP-1-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 10729	Analyst: EC
Diesel Range Organics (C10-C25)	ND	94.7		mg/Kg-dry	1	5/12/2015 12:21:00 AM
Residual Range Organics (C25-C36)	ND	237		mg/Kg-dry	1	5/12/2015 12:21:00 AM
Surr: 2-Fluorobiphenyl	102	50-150		%REC	1	5/12/2015 12:21:00 AM
Surr: o-Terphenyl	104	50-150		%REC	1	5/12/2015 12:21:00 AM
<u>Gasoline Range Organics by AK101</u>					Batch ID: 10734	Analyst: BC
Gasoline Range Organics (C6-C10)	ND	56.7		mg/Kg-dry	1	5/8/2015 7:15:00 PM
Surr: 1,4-Difluorobenzene	123	50-150		%REC	1	5/8/2015 7:15:00 PM
Surr: 4-Bromofluorobenzene	78.6	50-150		%REC	1	5/8/2015 7:15:00 PM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 10733	Analyst: EM
Benzene	ND	0.227		mg/Kg-dry	1	5/8/2015 5:08:00 PM
Toluene	ND	0.227		mg/Kg-dry	1	5/8/2015 5:08:00 PM
Ethylbenzene	ND	0.340		mg/Kg-dry	1	5/8/2015 5:08:00 PM
m,p-Xylene	ND	0.227		mg/Kg-dry	1	5/8/2015 5:08:00 PM
o-Xylene	ND	0.227		mg/Kg-dry	1	5/8/2015 5:08:00 PM
Surr: Dibromofluoromethane	93.0	63.7-129		%REC	1	5/8/2015 5:08:00 PM
Surr: Toluene-d8	99.8	64.3-131		%REC	1	5/8/2015 5:08:00 PM
Surr: 1-Bromo-4-fluorobenzene	70.4	63.1-141		%REC	1	5/8/2015 5:08:00 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R22263	Analyst: CG
Percent Moisture	79.1			wt%	1	5/11/2015 8:21:38 AM



Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 9:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-002

Matrix: Soil

Client Sample ID: TP-2-1.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 10729	Analyst: EC
Diesel Range Organics (C10-C25)	ND	92.2		mg/Kg-dry	1	5/12/2015 12:55:00 AM
Residual Range Organics (C25-C36)	ND	230		mg/Kg-dry	1	5/12/2015 12:55:00 AM
Surr: 2-Fluorobiphenyl	94.0	50-150		%REC	1	5/12/2015 12:55:00 AM
Surr: o-Terphenyl	97.2	50-150		%REC	1	5/12/2015 12:55:00 AM
<u>Gasoline Range Organics by AK101</u>					Batch ID: 10734	Analyst: BC
Gasoline Range Organics (C6-C10)	ND	48.8		mg/Kg-dry	1	5/8/2015 8:23:00 PM
Surr: 1,4-Difluorobenzene	129	50-150		%REC	1	5/8/2015 8:23:00 PM
Surr: 4-Bromofluorobenzene	80.8	50-150		%REC	1	5/8/2015 8:23:00 PM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 10733	Analyst: EM
Benzene	ND	0.195		mg/Kg-dry	1	5/8/2015 6:05:00 PM
Toluene	ND	0.195		mg/Kg-dry	1	5/8/2015 6:05:00 PM
Ethylbenzene	ND	0.293		mg/Kg-dry	1	5/8/2015 6:05:00 PM
m,p-Xylene	ND	0.195		mg/Kg-dry	1	5/8/2015 6:05:00 PM
o-Xylene	ND	0.195		mg/Kg-dry	1	5/8/2015 6:05:00 PM
Surr: Dibromofluoromethane	93.2	63.7-129		%REC	1	5/8/2015 6:05:00 PM
Surr: Toluene-d8	95.1	64.3-131		%REC	1	5/8/2015 6:05:00 PM
Surr: 1-Bromo-4-fluorobenzene	67.3	63.1-141		%REC	1	5/8/2015 6:05:00 PM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 11238	Analyst: TN
Lead	16.8	0.774		mg/Kg-dry	1	7/7/2015 2:13:33 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R22263	Analyst: CG
Percent Moisture	79.5			wt%	1	5/11/2015 8:21:38 AM



Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 9:30:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-003

Matrix: Soil

Client Sample ID: TP-3-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	ND	33.7		mg/Kg-dry	1	5/12/2015 1:29:00 AM
Residual Range Organics (C25-C36)	ND	84.3		mg/Kg-dry	1	5/12/2015 1:29:00 AM
Surr: 2-Fluorobiphenyl	104	50-150		%REC	1	5/12/2015 1:29:00 AM
Surr: o-Terphenyl	108	50-150		%REC	1	5/12/2015 1:29:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	47.7	14.5		mg/Kg-dry	1	5/8/2015 8:57:00 PM
Surr: 1,4-Difluorobenzene	134	50-150		%REC	1	5/8/2015 8:57:00 PM
Surr: 4-Bromofluorobenzene	97.3	50-150		%REC	1	5/8/2015 8:57:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.0582		mg/Kg-dry	1	5/8/2015 6:33:00 PM
Toluene	ND	0.0582		mg/Kg-dry	1	5/8/2015 6:33:00 PM
Ethylbenzene	ND	0.0873		mg/Kg-dry	1	5/8/2015 6:33:00 PM
m,p-Xylene	ND	0.0582		mg/Kg-dry	1	5/8/2015 6:33:00 PM
o-Xylene	ND	0.0582		mg/Kg-dry	1	5/8/2015 6:33:00 PM
Surr: Dibromofluoromethane	91.4	63.7-129		%REC	1	5/8/2015 6:33:00 PM
Surr: Toluene-d8	98.2	64.3-131		%REC	1	5/8/2015 6:33:00 PM
Surr: 1-Bromo-4-fluorobenzene	67.0	63.1-141		%REC	1	5/8/2015 6:33:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	47.4			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 9:45:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-004

Matrix: Soil

Client Sample ID: TP-3-2'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	827	100		mg/Kg-dry	1	5/12/2015 2:38:00 AM
Residual Range Organics (C25-C36)	ND	251		mg/Kg-dry	1	5/12/2015 2:38:00 AM
Surr: 2-Fluorobiphenyl	117	50-150		%REC	1	5/12/2015 2:38:00 AM
Surr: o-Terphenyl	120	50-150		%REC	1	5/12/2015 2:38:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	517	64.8		mg/Kg-dry	1	5/8/2015 9:31:00 PM
Surr: 1,4-Difluorobenzene	113	50-150		%REC	1	5/8/2015 9:31:00 PM
Surr: 4-Bromofluorobenzene	110	50-150		%REC	1	5/8/2015 9:31:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.259		mg/Kg-dry	1	5/8/2015 7:01:00 PM
Toluene	ND	0.259		mg/Kg-dry	1	5/8/2015 7:01:00 PM
Ethylbenzene	3.32	0.389		mg/Kg-dry	1	5/8/2015 7:01:00 PM
m,p-Xylene	3.06	0.259		mg/Kg-dry	1	5/8/2015 7:01:00 PM
o-Xylene	ND	0.259		mg/Kg-dry	1	5/8/2015 7:01:00 PM
Surr: Dibromofluoromethane	92.2	63.7-129		%REC	1	5/8/2015 7:01:00 PM
Surr: Toluene-d8	102	64.3-131		%REC	1	5/8/2015 7:01:00 PM
Surr: 1-Bromo-4-fluorobenzene	65.3	63.1-141		%REC	1	5/8/2015 7:01:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	82.7			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 10:05:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-005

Matrix: Soil

Client Sample ID: TP-4-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	ND	87.0		mg/Kg-dry	1	5/12/2015 3:12:00 AM
Residual Range Organics (C25-C36)	ND	217		mg/Kg-dry	1	5/12/2015 3:12:00 AM
Surr: 2-Fluorobiphenyl	108	50-150		%REC	1	5/12/2015 3:12:00 AM
Surr: o-Terphenyl	109	50-150		%REC	1	5/12/2015 3:12:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	ND	51.3		mg/Kg-dry	1	5/11/2015 5:52:00 PM
Surr: 1,4-Difluorobenzene	112	50-150		%REC	1	5/8/2015 10:05:00 PM
Surr: 4-Bromofluorobenzene	81.6	50-150		%REC	1	5/8/2015 10:05:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	79.3			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059
 Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 10:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-006

Matrix: Soil

Client Sample ID: TP-5-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	ND	24.0		mg/Kg-dry	1	5/12/2015 3:46:00 AM
Residual Range Organics (C25-C36)	ND	59.9		mg/Kg-dry	1	5/12/2015 3:46:00 AM
Surr: 2-Fluorobiphenyl	98.0	50-150		%REC	1	5/12/2015 3:46:00 AM
Surr: o-Terphenyl	96.4	50-150		%REC	1	5/12/2015 3:46:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	ND	7.13		mg/Kg-dry	1	5/8/2015 10:39:00 PM
Surr: 1,4-Difluorobenzene	127	50-150		%REC	1	5/8/2015 10:39:00 PM
Surr: 4-Bromofluorobenzene	92.8	50-150		%REC	1	5/8/2015 10:39:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	23.3			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 10:10:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-007

Matrix: Soil

Client Sample ID: TP-6-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	ND	98.8		mg/Kg-dry	1	5/12/2015 4:20:00 AM
Residual Range Organics (C25-C36)	ND	247		mg/Kg-dry	1	5/12/2015 4:20:00 AM
Surr: 2-Fluorobiphenyl	107	50-150		%REC	1	5/12/2015 4:20:00 AM
Surr: o-Terphenyl	107	50-150		%REC	1	5/12/2015 4:20:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	ND	47.8		mg/Kg-dry	1	5/8/2015 11:13:00 PM
Surr: 1,4-Difluorobenzene	123	50-150		%REC	1	5/8/2015 11:13:00 PM
Surr: 4-Bromofluorobenzene	70.6	50-150		%REC	1	5/8/2015 11:13:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.191		mg/Kg-dry	1	5/8/2015 7:30:00 PM
Toluene	ND	0.191		mg/Kg-dry	1	5/8/2015 7:30:00 PM
Ethylbenzene	ND	0.287		mg/Kg-dry	1	5/8/2015 7:30:00 PM
m,p-Xylene	ND	0.191		mg/Kg-dry	1	5/8/2015 7:30:00 PM
o-Xylene	ND	0.191		mg/Kg-dry	1	5/8/2015 7:30:00 PM
Surr: Dibromofluoromethane	90.4	63.7-129		%REC	1	5/8/2015 7:30:00 PM
Surr: Toluene-d8	92.3	64.3-131		%REC	1	5/8/2015 7:30:00 PM
Surr: 1-Bromo-4-fluorobenzene	58.7	63.1-141	S	%REC	1	5/8/2015 7:30:00 PM

NOTES:

S - Outlying surrogate recovery observed. The method is in control as indicated by the MB and LCS.

Total Metals by EPA Method 6020

Batch ID: 11238 Analyst: TN

Lead	2.88	0.823		mg/Kg-dry	1	7/7/2015 2:24:10 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	80.1			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 10:45:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-008

Matrix: Soil

Client Sample ID: TP-7-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	2,810	34.7		mg/Kg-dry	1	5/12/2015 4:54:00 AM
Residual Range Organics (C25-C36)	ND	86.7		mg/Kg-dry	1	5/12/2015 4:54:00 AM
Surr: 2-Fluorobiphenyl	122	50-150		%REC	1	5/12/2015 4:54:00 AM
Surr: o-Terphenyl	105	50-150		%REC	1	5/12/2015 4:54:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	746	124	D	mg/Kg-dry	10	5/11/2015 8:08:00 PM
Surr: 1,4-Difluorobenzene	123	50-150		%REC	1	5/8/2015 11:47:00 PM
Surr: 4-Bromofluorobenzene	132	50-150		%REC	1	5/8/2015 11:47:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	45.8			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 11:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-009

Matrix: Soil

Client Sample ID: TP-8-2'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729

Analyst: EC

Diesel Range Organics (C10-C25)	45,700	39.2	E	mg/Kg-dry	1	5/12/2015 5:28:00 AM
Residual Range Organics (C25-C36)	ND	97.9		mg/Kg-dry	1	5/12/2015 5:28:00 AM
Surr: 2-Fluorobiphenyl	87.0	50-150		%REC	1	5/12/2015 5:28:00 AM
Surr: o-Terphenyl	98.3	50-150		%REC	1	5/12/2015 5:28:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734

Analyst: BC

Gasoline Range Organics (C6-C10)	3,880	336	D	mg/Kg-dry	20	5/11/2015 8:43:00 PM
Surr: 1,4-Difluorobenzene	120	50-150		%REC	1	5/9/2015 12:21:00 AM
Surr: 4-Bromofluorobenzene	321	50-150	S	%REC	1	5/9/2015 12:21:00 AM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733

Analyst: EM

Methyl tert-butyl ether (MTBE)	ND	0.168		mg/Kg-dry	1	5/8/2015 7:58:00 PM
1,2-Dichloroethane (EDC)	ND	0.101		mg/Kg-dry	1	5/8/2015 7:58:00 PM
Benzene	1.33	0.0673		mg/Kg-dry	1	5/8/2015 7:58:00 PM
Toluene	0.365	0.0673		mg/Kg-dry	1	5/8/2015 7:58:00 PM
1,2-Dibromoethane (EDB)	ND	0.0168		mg/Kg-dry	1	5/8/2015 7:58:00 PM
Ethylbenzene	7.18	1.01	D	mg/Kg-dry	10	5/11/2015 2:24:00 PM
m,p-Xylene	18.1	0.673	D	mg/Kg-dry	10	5/11/2015 2:24:00 PM
o-Xylene	0.520	0.0673		mg/Kg-dry	1	5/8/2015 7:58:00 PM
Surr: Dibromofluoromethane	90.0	63.7-129		%REC	1	5/8/2015 7:58:00 PM
Surr: Toluene-d8	123	64.3-131		%REC	1	5/8/2015 7:58:00 PM
Surr: 1-Bromo-4-fluorobenzene	69.4	63.1-141		%REC	1	5/8/2015 7:58:00 PM

Total Metals by EPA Method 6020

Batch ID: 11238

Analyst: TN

Lead	32.5	0.316		mg/Kg-dry	1	7/7/2015 2:27:41 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22263

Analyst: CG

Percent Moisture	52.5			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 11:05:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-010

Matrix: Soil

Client Sample ID: TP-9-1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	1,210	21.7		mg/Kg-dry	1	5/12/2015 6:02:00 AM
Residual Range Organics (C25-C36)	ND	54.2		mg/Kg-dry	1	5/12/2015 6:02:00 AM
Surr: 2-Fluorobiphenyl	110	50-150		%REC	1	5/12/2015 6:02:00 AM
Surr: o-Terphenyl	108	50-150		%REC	1	5/12/2015 6:02:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	108	5.45		mg/Kg-dry	1	5/11/2015 6:26:00 PM
Surr: 1,4-Difluorobenzene	124	50-150		%REC	1	5/9/2015 12:55:00 AM
Surr: 4-Bromofluorobenzene	141	50-150		%REC	1	5/9/2015 12:55:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.0218		mg/Kg-dry	1	5/8/2015 8:26:00 PM
Toluene	0.0884	0.0218		mg/Kg-dry	1	5/8/2015 8:26:00 PM
Ethylbenzene	0.0796	0.0327		mg/Kg-dry	1	5/8/2015 8:26:00 PM
m,p-Xylene	0.195	0.0218		mg/Kg-dry	1	5/8/2015 8:26:00 PM
o-Xylene	0.0769	0.0218		mg/Kg-dry	1	5/8/2015 8:26:00 PM
Surr: Dibromofluoromethane	97.5	63.7-129		%REC	1	5/8/2015 8:26:00 PM
Surr: Toluene-d8	99.0	64.3-131		%REC	1	5/8/2015 8:26:00 PM
Surr: 1-Bromo-4-fluorobenzene	78.2	63.1-141		%REC	1	5/8/2015 8:26:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	16.8			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 11:15:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-011

Matrix: Soil

Client Sample ID: TP-10-1.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	ND	22.6		mg/Kg-dry	1	5/12/2015 7:11:00 AM
Residual Range Organics (C25-C36)	ND	56.4		mg/Kg-dry	1	5/12/2015 7:11:00 AM
Surr: 2-Fluorobiphenyl	105	50-150		%REC	1	5/12/2015 7:11:00 AM
Surr: o-Terphenyl	103	50-150		%REC	1	5/12/2015 7:11:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	ND	9.27		mg/Kg-dry	1	5/11/2015 7:00:00 PM
Surr: 1,4-Difluorobenzene	127	50-150		%REC	1	5/9/2015 2:03:00 AM
Surr: 4-Bromofluorobenzene	102	50-150		%REC	1	5/9/2015 2:03:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.0371		mg/Kg-dry	1	5/8/2015 8:55:00 PM
Toluene	ND	0.0371		mg/Kg-dry	1	5/8/2015 8:55:00 PM
Ethylbenzene	ND	0.0556		mg/Kg-dry	1	5/8/2015 8:55:00 PM
m,p-Xylene	ND	0.0371		mg/Kg-dry	1	5/8/2015 8:55:00 PM
o-Xylene	ND	0.0371		mg/Kg-dry	1	5/8/2015 8:55:00 PM
Surr: Dibromofluoromethane	95.0	63.7-129		%REC	1	5/8/2015 8:55:00 PM
Surr: Toluene-d8	97.7	64.3-131		%REC	1	5/8/2015 8:55:00 PM
Surr: 1-Bromo-4-fluorobenzene	76.3	63.1-141		%REC	1	5/8/2015 8:55:00 PM

Total Metals by EPA Method 6020

Batch ID: 11238 Analyst: TN

Lead	12.0	0.197		mg/Kg-dry	1	7/7/2015 2:31:13 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	22.5			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 11:30:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-012

Matrix: Soil

Client Sample ID: TP-11-1.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	848	70.0		mg/Kg-dry	1	5/12/2015 9:26:00 AM
Residual Range Organics (C25-C36)	ND	175		mg/Kg-dry	1	5/12/2015 9:26:00 AM
Surr: 2-Fluorobiphenyl	107	50-150		%REC	1	5/12/2015 9:26:00 AM
Surr: o-Terphenyl	108	50-150		%REC	1	5/12/2015 9:26:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	121	38.0		mg/Kg-dry	1	5/9/2015 3:11:00 AM
Surr: 1,4-Difluorobenzene	122	50-150		%REC	1	5/9/2015 3:11:00 AM
Surr: 4-Bromofluorobenzene	104	50-150		%REC	1	5/9/2015 3:11:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	73.7			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 11:45:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505059-013

Matrix: Soil

Client Sample ID: TP-12-1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	17,000	26.5	E	mg/Kg-dry	1	5/12/2015 10:00:00 AM
Residual Range Organics (C25-C36)	257	66.4		mg/Kg-dry	1	5/12/2015 10:00:00 AM
Surr: 2-Fluorobiphenyl	86.0	50-150		%REC	1	5/12/2015 10:00:00 AM
Surr: o-Terphenyl	108	50-150		%REC	1	5/12/2015 10:00:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	1,050	96.0	D	mg/Kg-dry	10	5/11/2015 9:17:00 PM
Surr: 1,4-Difluorobenzene	111	50-150		%REC	1	5/9/2015 3:45:00 AM
Surr: 4-Bromofluorobenzene	221	50-150	S	%REC	1	5/9/2015 3:45:00 AM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Volatile Organic Compounds by EPA Method 8260

Batch ID: 11254 Analyst: BC

Methyl tert-butyl ether (MTBE)	ND	0.0778	H	mg/Kg-dry	1	7/9/2015 4:25:00 PM
1,2-Dichloroethane (EDC)	ND	0.0467	H	mg/Kg-dry	1	7/9/2015 4:25:00 PM
1,2-Dibromoethane (EDB)	ND	0.00778	H	mg/Kg-dry	1	7/9/2015 4:25:00 PM
Surr: Dibromofluoromethane	87.3	63.7-129	H	%REC	1	7/9/2015 4:25:00 PM
Surr: Toluene-d8	81.5	64.3-131	H	%REC	1	7/9/2015 4:25:00 PM
Surr: 1-Bromo-4-fluorobenzene	81.6	63.1-141	H	%REC	1	7/9/2015 4:25:00 PM

Total Metals by EPA Method 6020

Batch ID: 11238 Analyst: TN

Lead	69.9	0.245		mg/Kg-dry	1	7/7/2015 2:34:44 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	34.8			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 4:15:00 PM

Project: Hoonah Tank Farm

Lab ID: 1505059-014

Matrix: Soil

Client Sample ID: TP-13-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by AK102-AK103

Batch ID: 10729 Analyst: EC

Diesel Range Organics (C10-C25)	6,660	21.2	E	mg/Kg-dry	1	5/12/2015 10:34:00 AM
Residual Range Organics (C25-C36)	386	52.9		mg/Kg-dry	1	5/12/2015 10:34:00 AM
Surr: 2-Fluorobiphenyl	121	50-150		%REC	1	5/12/2015 10:34:00 AM
Surr: o-Terphenyl	112	50-150		%REC	1	5/12/2015 10:34:00 AM

Gasoline Range Organics by AK101

Batch ID: 10734 Analyst: BC

Gasoline Range Organics (C6-C10)	1,000	65.1	D	mg/Kg-dry	10	5/11/2015 9:51:00 PM
Surr: 1,4-Difluorobenzene	125	50-150		%REC	1	5/9/2015 4:19:00 AM
Surr: 4-Bromofluorobenzene	208	50-150	S	%REC	1	5/9/2015 4:19:00 AM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10733 Analyst: EM

Benzene	ND	0.0261		mg/Kg-dry	1	5/8/2015 9:23:00 PM
Toluene	0.150	0.0261		mg/Kg-dry	1	5/8/2015 9:23:00 PM
Ethylbenzene	0.0710	0.0391		mg/Kg-dry	1	5/8/2015 9:23:00 PM
m,p-Xylene	0.264	0.0261		mg/Kg-dry	1	5/8/2015 9:23:00 PM
o-Xylene	1.07	0.0261		mg/Kg-dry	1	5/8/2015 9:23:00 PM
Surr: Dibromofluoromethane	92.8	63.7-129		%REC	1	5/8/2015 9:23:00 PM
Surr: Toluene-d8	104	64.3-131		%REC	1	5/8/2015 9:23:00 PM
Surr: 1-Bromo-4-fluorobenzene	89.1	63.1-141		%REC	1	5/8/2015 9:23:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R22263 Analyst: CG

Percent Moisture	8.57			wt%	1	5/11/2015 8:21:38 AM
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Analytical Report

WO#: 1505059

Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 4:17:00 PM

Project: Hoonah Tank Farm

Lab ID: 1505059-015

Matrix: Soil

Client Sample ID: TP-14-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 10729	Analyst: EC
Diesel Range Organics (C10-C25)	27.5	19.9		mg/Kg-dry	1	5/12/2015 11:08:00 AM
Residual Range Organics (C25-C36)	96.5	49.9		mg/Kg-dry	1	5/12/2015 11:08:00 AM
Surr: 2-Fluorobiphenyl	122	50-150		%REC	1	5/12/2015 11:08:00 AM
Surr: o-Terphenyl	118	50-150		%REC	1	5/12/2015 11:08:00 AM
<u>Gasoline Range Organics by AK101</u>					Batch ID: 10734	Analyst: BC
Gasoline Range Organics (C6-C10)	ND	8.10		mg/Kg-dry	1	5/11/2015 7:34:00 PM
Surr: 1,4-Difluorobenzene	122	50-150		%REC	1	5/9/2015 4:53:00 AM
Surr: 4-Bromofluorobenzene	91.8	50-150		%REC	1	5/9/2015 4:53:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 10733	Analyst: EM
Benzene	ND	0.0324		mg/Kg-dry	1	5/8/2015 9:51:00 PM
Toluene	0.0810	0.0324		mg/Kg-dry	1	5/8/2015 9:51:00 PM
Ethylbenzene	ND	0.0486		mg/Kg-dry	1	5/8/2015 9:51:00 PM
m,p-Xylene	0.0745	0.0324		mg/Kg-dry	1	5/8/2015 9:51:00 PM
o-Xylene	ND	0.0324		mg/Kg-dry	1	5/8/2015 9:51:00 PM
Surr: Dibromofluoromethane	97.6	63.7-129		%REC	1	5/8/2015 9:51:00 PM
Surr: Toluene-d8	98.2	64.3-131		%REC	1	5/8/2015 9:51:00 PM
Surr: 1-Bromo-4-fluorobenzene	83.7	63.1-141		%REC	1	5/8/2015 9:51:00 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R22263	Analyst: CG
Percent Moisture	7.49			wt%	1	5/11/2015 8:21:38 AM



Analytical Report

WO#: 1505059
Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 4:20:00 PM

Project: Hoonah Tank Farm

Lab ID: 1505059-016

Matrix: Soil

Client Sample ID: TP-15-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 10729	Analyst: EC
Diesel Range Organics (C10-C25)	13,300	21.6	E	mg/Kg-dry	1	5/12/2015 11:41:00 AM
Residual Range Organics (C25-C36)	367	54.0		mg/Kg-dry	1	5/12/2015 11:41:00 AM
Surr: 2-Fluorobiphenyl	128	50-150		%REC	1	5/12/2015 11:41:00 AM
Surr: o-Terphenyl	115	50-150		%REC	1	5/12/2015 11:41:00 AM
<u>Gasoline Range Organics by AK101</u>					Batch ID: 10734	Analyst: BC
Gasoline Range Organics (C6-C10)	26.4	5.76		mg/Kg-dry	1	5/9/2015 5:26:00 AM
Surr: 1,4-Difluorobenzene	125	50-150		%REC	1	5/9/2015 5:26:00 AM
Surr: 4-Bromofluorobenzene	89.8	50-150		%REC	1	5/9/2015 5:26:00 AM
<u>Total Metals by EPA Method 6020</u>					Batch ID: 11238	Analyst: TN
Lead	21.4	0.183		mg/Kg-dry	1	7/7/2015 2:38:15 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R22263	Analyst: CG
Percent Moisture	10.3			wt%	1	5/11/2015 8:21:38 AM



Analytical Report

WO#: 1505059
Date Reported: 7/13/2015

Client: G-Logics

Collection Date: 5/5/2015 4:25:00 PM

Project: Hoonah Tank Farm

Lab ID: 1505059-017

Matrix: Soil

Client Sample ID: TP-16-0.5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by AK102-AK103</u>					Batch ID: 10729	Analyst: EC
Diesel Range Organics (C10-C25)	49,100	22.0	E	mg/Kg-dry	1	5/12/2015 12:15:00 PM
Residual Range Organics (C25-C36)	1,060	54.9		mg/Kg-dry	1	5/12/2015 12:15:00 PM
Surr: 2-Fluorobiphenyl	96.0	50-150		%REC	1	5/12/2015 12:15:00 PM
Surr: o-Terphenyl	107	50-150		%REC	1	5/12/2015 12:15:00 PM
<u>Gasoline Range Organics by AK101</u>					Batch ID: 10734	Analyst: BC
Gasoline Range Organics (C6-C10)	26.0	6.76		mg/Kg-dry	1	5/9/2015 6:00:00 AM
Surr: 1,4-Difluorobenzene	118	50-150		%REC	1	5/9/2015 6:00:00 AM
Surr: 4-Bromofluorobenzene	74.4	50-150		%REC	1	5/9/2015 6:00:00 AM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R22263	Analyst: CG
Percent Moisture	12.1			wt%	1	5/11/2015 8:21:38 AM



Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID MB-11238	SampType: MBLK	Units: mg/Kg			Prep Date: 7/7/2015	RunNo: 23391					
Client ID: MBLKS	Batch ID: 11238				Analysis Date: 7/7/2015	SeqNo: 443113					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID LCS-11238	SampType: LCS	Units: mg/Kg			Prep Date: 7/7/2015	RunNo: 23391					
Client ID: LCSS	Batch ID: 11238				Analysis Date: 7/7/2015	SeqNo: 443114					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 238 0.200 237.0 0 101 75.1 124.9

Sample ID 1507023-010ADUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 7/7/2015	RunNo: 23391					
Client ID: BATCH	Batch ID: 11238				Analysis Date: 7/7/2015	SeqNo: 443116					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 3.26 0.217 2.831 14.0 20

Sample ID 1507023-010AMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 7/7/2015	RunNo: 23391					
Client ID: BATCH	Batch ID: 11238				Analysis Date: 7/7/2015	SeqNo: 443120					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 30.1 0.217 27.07 2.831 101 75 125

Sample ID 1507023-010AMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 7/7/2015	RunNo: 23391					
Client ID: BATCH	Batch ID: 11238				Analysis Date: 7/7/2015	SeqNo: 443121					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 29.3 0.218 27.29 2.831 97.0 75 125 30.07 2.58 20

Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID 1505059-003ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 5/8/2015	RunNo: 22283				
Client ID: TP-3-0.5'	Batch ID: 10729					Analysis Date: 5/12/2015	SeqNo: 422812				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	35.4						0		30	
Residual Range Organics (C25-C36)	ND	88.5						0		30	
Surr: 2-Fluorobiphenyl	49.0		35.40		138	50	150		0	0	
Surr: o-Terphenyl	49.4		35.40		139	50	150		0	0	

Sample ID LCS-10729	SampType: LCS	Units: mg/Kg				Prep Date: 5/8/2015	RunNo: 22283				
Client ID: LCSS	Batch ID: 10729					Analysis Date: 5/11/2015	SeqNo: 422823				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	516	20.0	500.0	0	103	75	125				
Surr: 2-Fluorobiphenyl	19.7		20.00		98.7	60	120				
Surr: o-Terphenyl	18.7		20.00		93.7	60	120				

Sample ID MB-10729	SampType: MBLK	Units: mg/Kg				Prep Date: 5/8/2015	RunNo: 22283				
Client ID: MBLKS	Batch ID: 10729					Analysis Date: 5/11/2015	SeqNo: 422824				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	20.1		20.00		101	60	120				
Surr: o-Terphenyl	19.5		20.00		97.7	60	120				

Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID 1505059-001BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 5/8/2015	RunNo: 22274				
Client ID: TP-1-0.5'	Batch ID: 10734					Analysis Date: 5/8/2015	SeqNo: 423832				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	ND	56.7						0		20	
Surr: 1,4-Difluorobenzene	36.5		28.37		129	50	150		0	0	
Surr: 4-Bromofluorobenzene	68.2		85.11		80.1	50	150		0		

Sample ID 1505059-011BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 5/8/2015	RunNo: 22274				
Client ID: TP-10-1.5'	Batch ID: 10734					Analysis Date: 5/9/2015	SeqNo: 423843				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	14.6	9.27						23.70	47.8	20	
Surr: 1,4-Difluorobenzene	5.66		4.637		122	50	150		0	0	
Surr: 4-Bromofluorobenzene	13.8		13.91		98.9	50	150		0		

Sample ID LCS-10734	SampType: LCS	Units: mg/Kg				Prep Date: 5/8/2015	RunNo: 22274				
Client ID: LCSS	Batch ID: 10734					Analysis Date: 5/8/2015	SeqNo: 423854				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	24.9	5.00	25.00	0	99.6	60	120				
Surr: 1,4-Difluorobenzene	2.79		2.500		112	60	120				
Surr: 4-Bromofluorobenzene	2.79		2.500		111	60	120				

Sample ID MB-10734	SampType: MBLK	Units: mg/Kg				Prep Date: 5/8/2015	RunNo: 22274				
Client ID: MBLKS	Batch ID: 10734					Analysis Date: 5/8/2015	SeqNo: 423855				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	ND	5.00									
Surr: 1,4-Difluorobenzene	3.19		2.500		128	60	120				S
Surr: 4-Bromofluorobenzene	7.23		7.500		96.3	60	120				

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect; the method is in control as indicated by the LCS.



Date: 7/13/2015

Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID CCV-D-10734	SampType: CCV	Units: mg/Kg			Prep Date: 5/11/2015	RunNo: 22274					
Client ID: CCV	Batch ID: 10734				Analysis Date: 5/11/2015	SeqNo: 423864					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (C6-C10)	546	5.00	500.0	0	109	75	125				
Surr: 1,4-Difluorobenzene	55.2		50.00		110	60	120				
Surr: 4-Bromofluorobenzene	65.1		50.00		130	60	120				S

Work Order: 1505059
 CLIENT: G-Logics
 Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1505063-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/8/2015	RunNo:	22254		
Client ID:	BATCH	Batch ID:	10733	Analysis Date:	5/8/2015	SeqNo:	422311				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0713						0		30	
1,2-Dichloroethane (EDC)	ND	0.0428						0		30	
Benzene	ND	0.0285						0		30	
Toluene	ND	0.0285						0		30	
1,2-Dibromoethane (EDB)	ND	0.00713						0		30	
Ethylbenzene	ND	0.0428						0		30	
m,p-Xylene	ND	0.0285						0		30	
o-Xylene	ND	0.0285						0		30	
Surr: Dibromofluoromethane	1.63		1.782		91.3	63.7	129		0		
Surr: Toluene-d8	1.72		1.782		96.4	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.83		1.782		103	63.1	141		0		

Sample ID	1505063-002BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	5/8/2015	RunNo:	22254		
Client ID:	BATCH	Batch ID:	10733	Analysis Date:	5/8/2015	SeqNo:	422313				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.33	0.0575	1.150	0	116	54.4	132				
1,2-Dichloroethane (EDC)	1.09	0.0345	1.150	0	94.6	51.3	139				
Benzene	1.18	0.0230	1.150	0	103	63.5	133				
Toluene	1.18	0.0230	1.150	0	102	63.4	132				
1,2-Dibromoethane (EDB)	1.15	0.00575	1.150	0	100	50.4	136				
Ethylbenzene	1.26	0.0345	1.150	0	109	54.5	134				
m,p-Xylene	2.56	0.0230	2.300	0	111	53.1	132				
o-Xylene	1.22	0.0230	1.150	0	106	53.3	139				
Surr: Dibromofluoromethane	1.33		1.438		92.4	63.7	129				
Surr: Toluene-d8	1.39		1.438		96.9	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.44		1.438		99.8	63.1	141				



Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-10733	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	22254		
Client ID:	LCSS	Batch ID:	10733	Analysis Date:	5/8/2015	SeqNo:	422315				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.13	0.0500	1.000	0	113	59.1	138				
1,2-Dichloroethane (EDC)	0.960	0.0300	1.000	0	96.0	61.9	136				
Benzene	0.996	0.0200	1.000	0	99.6	64.3	133				
Toluene	0.996	0.0200	1.000	0	99.6	67.3	138				
1,2-Dibromoethane (EDB)	1.07	0.00500	1.000	0	107	70	130				
Ethylbenzene	1.08	0.0300	1.000	0	108	74	129				
m,p-Xylene	2.25	0.0200	2.000	0	113	79.8	128				
o-Xylene	1.10	0.0200	1.000	0	110	72.7	124				
Surr: Dibromofluoromethane	1.17		1.250		93.3	63.7	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.32		1.250		105	63.1	141				

Sample ID	MB-10733	SampType:	MBLK	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	22254		
Client ID:	MBLKS	Batch ID:	10733	Analysis Date:	5/8/2015	SeqNo:	422316				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,2-Dichloroethane (EDC)	ND	0.0300									
Benzene	ND	0.0200									
Toluene	ND	0.0200									
1,2-Dibromoethane (EDB)	ND	0.00500									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.23		1.250		98.0	63.7	129				
Surr: Toluene-d8	1.22		1.250		97.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	63.1	141				



Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1505059-001BDUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 5/8/2015	RunNo: 22254					
Client ID: TP-1-0.5'	Batch ID: 10733				Analysis Date: 5/8/2015	SeqNo: 422491					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.567						0		30	
1,2-Dichloroethane (EDC)	ND	0.340						0		30	
Benzene	ND	0.227						0		30	
Toluene	ND	0.227						0		30	
1,2-Dibromoethane (EDB)	ND	0.0567						0		30	
Ethylbenzene	ND	0.340						0		30	
m,p-Xylene	ND	0.227						0		30	
o-Xylene	ND	0.227						0		30	
Surr: Dibromofluoromethane	13.4		14.18		94.7	63.7	129		0		
Surr: Toluene-d8	14.1		14.18		99.3	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	49.0		70.92		69.1	63.1	141		0		

Sample ID CCV-B-10733	SampType: CCV	Units: µg/L			Prep Date: 5/11/2015	RunNo: 22254					
Client ID: CCV	Batch ID: 10733				Analysis Date: 5/11/2015	SeqNo: 422602					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	20.5	0.0300	20.00	0	103	80	120				
m,p-Xylene	41.8	0.0200	40.00	0	104	80	120				
Surr: Dibromofluoromethane	23.7		25.00		94.6	63.7	129				
Surr: Toluene-d8	24.7		25.00		98.7	61.4	128				
Surr: 1-Bromo-4-fluorobenzene	25.5		25.00		102	63.1	141				

Sample ID 1507062-002BDUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 7/8/2015	RunNo: 23417					
Client ID: BATCH	Batch ID: 11254				Analysis Date: 7/8/2015	SeqNo: 443637					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0565						0		30	
1,2-Dichloroethane (EDC)	ND	0.0339						0		30	
1,2-Dibromoethane (EDB)	ND	0.00565						0		30	
Surr: Dibromofluoromethane	1.21		1.414		85.9	63.7	129		0		

Work Order: 1505059

CLIENT: G-Logics

Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1507062-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	7/8/2015	RunNo:	23417		
Client ID:	BATCH	Batch ID:	11254			Analysis Date:	7/8/2015	SeqNo:	443637		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	1.31		1.414		92.8	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.33		1.414		93.8	63.1	141		0		

Sample ID	1507062-003BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	7/8/2015	RunNo:	23417		
Client ID:	BATCH	Batch ID:	11254			Analysis Date:	7/8/2015	SeqNo:	443638		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	1.27	0.0537	1.074	0	118	54.4	132				
1,2-Dichloroethane (EDC)	1.05	0.0322	1.074	0	97.9	51.3	139				
1,2-Dibromoethane (EDB)	1.14	0.00537	1.074	0	106	50.4	136				
Surr: Dibromofluoromethane	1.33		1.343		99.4	63.7	129				
Surr: Toluene-d8	1.31		1.343		97.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.32		1.343		98.2	63.1	141				

Sample ID	LCS-11254	SampType:	LCS	Units:	mg/Kg	Prep Date:	7/8/2015	RunNo:	23417		
Client ID:	LCSS	Batch ID:	11254			Analysis Date:	7/8/2015	SeqNo:	444176		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	1.10	0.0500	1.000	0	110	59.1	138				
1,2-Dichloroethane (EDC)	0.932	0.0300	1.000	0	93.2	61.9	136				
1,2-Dibromoethane (EDB)	0.976	0.00500	1.000	0	97.6	70	130				
Surr: Dibromofluoromethane	1.28		1.250		103	63.7	129				
Surr: Toluene-d8	1.16		1.250		92.5	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.0	63.1	141				

Sample ID	MB-11254	SampType:	MBLK	Units:	mg/Kg	Prep Date:	7/8/2015	RunNo:	23417		
Client ID:	MBLKS	Batch ID:	11254			Analysis Date:	7/8/2015	SeqNo:	444181		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0500									
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Work Order: 1505059
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-11254	SampType: MBLK	Units: mg/Kg	Prep Date: 7/8/2015	RunNo: 23417							
Client ID: MBLKS	Batch ID: 11254		Analysis Date: 7/8/2015	SeqNo: 444181							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloroethane (EDC)	ND	0.0300								
1,2-Dibromoethane (EDB)	ND	0.00500								
Surr: Dibromofluoromethane	1.18		1.250		94.8	63.7	129			
Surr: Toluene-d8	1.23		1.250		98.8	64.3	131			
Surr: 1-Bromo-4-fluorobenzene	1.18		1.250		94.4	63.1	141			

Client Name: GL	Work Order Number: 1505059
Logged by: Erica Silva	Date Received: 5/7/2015 11:02:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	7.4
Sample	13.1
Temp Blank	9.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/15/15

Laboratory Project No (internal): 1

of 1505059

Client:

g-Logics
40 2nd Ave SE
Issaquah

Project Name:

Hornell Tank Farm
Houma, AK

Address:

City, State, Zip

Tel: 425-391-6874

Collected by:

SH
Strattheg-Logics Project No: 01-0294-D

Reports To (PM):

SH

Fax:

Email: Strattheg-Logics Project No: 01-0294-D

*Matrix Codes: A = Air, AQ = Aquous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	YOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DHRO)	SEMI VOL (EPA 8270)	PAH (EPA 8270 - 31M)	PCB (EPA 806)	Metals** (6020/200.6)	Total (T) Dissolved (D)	Anions (IC)***	EDC (801.1)	Neopentane	Lead	EDC	Comments/Depth
1 TP-1-0.5'	5/5	0845	S	X																4oz jar, MED 4oz jar
2 TP-2-1.5'		0900		X																
3 TP-3-0.5'		0930		X																
4 TP-3-2'		0945		X																
5 TP-4-0.5'		1005		X																
6 TP-5-0.5'		1000		X																
7 TP-6-0.5'		1010		X																
8 TP-7-0.5'		1045		X																
9 TP-8-2'		1100		X																
10 TP-9-1'		1105		X																

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate/Nitrite
 **Metals Analysis (Circle): Arsenic Barium Beryllium Cadmium Chromium Copper Lead Mercury Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Tin Titanium Vanadium Zinc
 **Special Remarks: AIC Methods

Sample Disposed: Return to Client Disposal by Lab (a fee may be assessed if samples are retained after 30 days)
 Refraining: Still in 5/15/15 1102 Date/Time Received: Still in 5/15/15 1102 Date/Time
 Refraining: Still in 5/15/15 1102 Date/Time Received: Still in 5/15/15 1102 Date/Time
 Refraining: Still in 5/15/15 1102 Date/Time Received: Still in 5/15/15 1102 Date/Time

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com



Chain of Custody Record

3600 Fremont Ave N, Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/15/15

Laboratory Project No (Internal): 1505059A
Page: 1 of 1

Client: G-Logics
Address: 40 2nd Ave SE
City, State, Zip: Issaquah, WA

Tel: 425-391-6874
Fax:

Project Name: Houch Tank Farm
Location: Houch, AK
Collected by: SH

Email: Shanthree@g-logics.com Project No: 01-0294-D

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, C = Other, P = Product, S = Soil, SO = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	VOC (EPA 8160)	SVOCs	Gasoline Range Organics (GV)	Hydrocarbon Manufacture (HNM)	Distillate/Range Organics (DR)	SEMI VOL (EPA 8210)	PAH (EPA 8270 - SM)	PCB (EPA 8082)	Metals** (6020 / 200 A)	Total (T) / Dissolved (D)	Anions (IC)**	EDU (8011)	Lead	EDC	EDB	EDM	EDM	Comments/Depth
1 TP-1-0.5'	5/5	0845	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Horiz, Med 4oz jar
2 TP-2-1.5'		0900	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 TP-3-0.5'		0930	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 TP-3-2'		0945	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 TP-4-0.5'		1055	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6 TP-5-0.5'		1000	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7 TP-6-0.5'		1010	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8 TP-7-0.5'		1045	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9 TP-8-2'		1100	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10 TP-9-1'		1105	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

**Metals Analysis (Circle): ARCA-5 PCBs-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Ni Pb Sb Se Si Sn Ti U V Zn

Sample Disposed: Return to Client Disposed by Lab (a fee may be assessed) (a fee will be returned after 30 days)

Relinquished: SH Date/Time: 5/15/15 1102 Received: SH Date/Time: 5/15/15 1102

Special Remarks: Air Methods

TAT -> SameDay NextDay 2 Day 3 Day STD

Release coordinator with initials in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

G-Logics

Stuart Hyde
40 Second Ave. SE
Issaquah, WA 98027

RE: Hoonah Tank Farm

Lab ID: 1505109

May 22, 2015

Attention Stuart Hyde:

Fremont Analytical, Inc. received 3 sample(s) on 5/13/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by AK102-AK103
Gasoline Range Organics by AK101
Metals (SW6020) with TCLP Extraction (EPA 1311)
Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260
Volatile Organic Compounds by SW8260/TCLP ZHE

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway
President



Date: 05/22/2015

CLIENT: G-Logics
Project: Hoonah Tank Farm
Lab Order: 1505109

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505109-001	TS-1	05/10/2015 10:00 AM	05/13/2015 3:00 PM
1505109-002	TS-2	05/10/2015 10:05 AM	05/13/2015 3:00 PM
1505109-003	TS-3	05/10/2015 10:10 AM	05/13/2015 3:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: G-Logics
Project: Hoonah Tank Farm

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-001A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-002A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-003A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-001A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-002A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1505109-003A) required Florisil Cleanup Procedure (Using Method No 3620C).

Analytical Comments for 8021B/AK101, Sample CCV-B-10779, Batch ID 10779 : Under AK101 TPH method, super surrogate required. These samples were not spiked with appropriate amount of surrogate before collection.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

WO#: 1505109

Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-001

Matrix: Sediment

Client Sample ID: TS-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA 8082

Batch ID: 10792

Analyst: NG

Aroclor 1016	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1221	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1232	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1242	0.483	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1248	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1254	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1260	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1262	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Aroclor 1268	ND	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Total PCBs	0.483	0.162		mg/Kg-dry	1	5/20/2015 2:07:00 AM
Surr: Decachlorobiphenyl	76.0	55.6-167		%REC	1	5/20/2015 2:07:00 AM
Surr: Tetrachloro-m-xylene	64.9	40.5-148		%REC	1	5/20/2015 2:07:00 AM

Diesel and Heavy Oil by AK102-AK103

Batch ID: 10771

Analyst: EC

Diesel Range Organics (C10-C25)	302,000	3,170	D	mg/Kg-dry	100	5/15/2015 12:53:00 PM
Residual Range Organics (C25-C36)	1,330	79.2		mg/Kg-dry	1	5/15/2015 11:11:00 AM
Surr: 2-Fluorobiphenyl	89.3	50-150		%REC	1	5/15/2015 11:11:00 AM
Surr: o-Terphenyl	121	50-150		%REC	1	5/15/2015 11:11:00 AM

Gasoline Range Organics by AK101

Batch ID: 10779

Analyst: BC

Gasoline Range Organics (C6-C10)	994	164	D	mg/Kg-dry	20	5/19/2015 12:24:00 AM
Surr: 1,4-Difluorobenzene	100	50-150		%REC	1	5/19/2015 2:06:00 AM
Surr: 4-Bromofluorobenzene	616	50-150	S	%REC	1	5/19/2015 2:06:00 AM

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10783

Analyst: BC

Benzene	0.505	0.0175		mg/Kg-dry	1	5/15/2015 7:47:00 PM
Toluene	30.0	0.349	D	mg/Kg-dry	20	5/15/2015 6:19:00 PM
Ethylbenzene	31.3	0.524	D	mg/Kg-dry	20	5/15/2015 6:19:00 PM
m,p-Xylene	64.7	0.873	D	mg/Kg-dry	50	5/19/2015 3:53:00 PM
o-Xylene	37.1	0.873	D	mg/Kg-dry	50	5/19/2015 3:53:00 PM
Surr: Dibromofluoromethane	96.9	63.7-129		%REC	1	5/15/2015 7:47:00 PM
Surr: Toluene-d8	127	64.3-131		%REC	1	5/15/2015 7:47:00 PM
Surr: 1-Bromo-4-fluorobenzene	89.3	63.1-141		%REC	1	5/15/2015 7:47:00 PM



Analytical Report

WO#: 1505109
 Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:00:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-001

Matrix: Sediment

Client Sample ID: TS-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by SW8260/TCLP ZHE

Batch ID: 10766 Analyst: BC

Benzene	1.85	0.125		µg/L	1	5/20/2015 7:52:00 AM
Surr: Dibromofluoromethane	94.4	80.3-123		%REC	1	5/20/2015 7:52:00 AM
Surr: Toluene-d8	103	79.8-120		%REC	1	5/20/2015 7:52:00 AM
Surr: 4-Bromofluorobenzene	105	83.5-119		%REC	1	5/20/2015 7:52:00 AM

Total Metals by EPA Method 6020

Batch ID: 10772 Analyst: TN

Lead	402	0.618		mg/Kg-dry	1	5/14/2015 6:37:43 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22444 Analyst: CG

Percent Moisture	38.9			wt%	1	5/20/2015 8:18:19 AM
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Analytical Report

WO#: 1505109

Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:05:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-002

Matrix: Sediment

Client Sample ID: TS-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA 8082

Batch ID: 10792

Analyst: NG

Aroclor 1016	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1221	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1232	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1242	0.402	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1248	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1254	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1260	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1262	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Aroclor 1268	ND	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Total PCBs	0.402	0.152		mg/Kg-dry	1	5/20/2015 3:06:00 AM
Surr: Decachlorobiphenyl	77.5	55.6-167		%REC	1	5/20/2015 3:06:00 AM
Surr: Tetrachloro-m-xylene	64.4	40.5-148		%REC	1	5/20/2015 3:06:00 AM

Diesel and Heavy Oil by AK102-AK103

Batch ID: 10771

Analyst: EC

Diesel Range Organics (C10-C25)	257,000	3,220	D	mg/Kg-dry	100	5/15/2015 1:27:00 PM
Residual Range Organics (C25-C36)	1,130	80.4		mg/Kg-dry	1	5/15/2015 11:45:00 AM
Surr: 2-Fluorobiphenyl	107	50-150		%REC	1	5/15/2015 11:45:00 AM
Surr: o-Terphenyl	110	50-150		%REC	1	5/15/2015 11:45:00 AM

Gasoline Range Organics by AK101

Batch ID: 10779

Analyst: BC

Gasoline Range Organics (C6-C10)	624	166	D	mg/Kg-dry	20	5/18/2015 11:16:00 PM
Surr: 1,4-Difluorobenzene	106	50-150		%REC	1	5/19/2015 12:58:00 AM
Surr: 4-Bromofluorobenzene	108	50-150	D	%REC	20	5/18/2015 11:16:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10783

Analyst: BC

Benzene	0.174	0.0163		mg/Kg-dry	1	5/15/2015 8:17:00 PM
Toluene	6.29	0.327	D	mg/Kg-dry	20	5/15/2015 6:48:00 PM
Ethylbenzene	5.05	0.490	D	mg/Kg-dry	20	5/15/2015 6:48:00 PM
m,p-Xylene	23.8	0.327	D	mg/Kg-dry	20	5/15/2015 6:48:00 PM
o-Xylene	13.7	0.327	D	mg/Kg-dry	20	5/15/2015 6:48:00 PM
Surr: Dibromofluoromethane	91.5	63.7-129		%REC	1	5/15/2015 8:17:00 PM
Surr: Toluene-d8	105	64.3-131		%REC	1	5/15/2015 8:17:00 PM
Surr: 1-Bromo-4-fluorobenzene	100	63.1-141		%REC	1	5/15/2015 8:17:00 PM



Analytical Report

WO#: 1505109
Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:05:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-002

Matrix: Sediment

Client Sample ID: TS-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by SW8260/TCLP ZHE

Batch ID: 10778 Analyst: BC

Benzene	1.57	0.123		µg/L	1	5/20/2015 7:24:00 AM
Surr: Dibromofluoromethane	93.1	80.3-123		%REC	1	5/20/2015 7:24:00 AM
Surr: Toluene-d8	101	79.8-120		%REC	1	5/20/2015 7:24:00 AM
Surr: 4-Bromofluorobenzene	99.4	83.5-119		%REC	1	5/20/2015 7:24:00 AM

Total Metals by EPA Method 6020

Batch ID: 10772 Analyst: TN

Lead	357	0.650		mg/Kg-dry	1	5/14/2015 6:41:14 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22444 Analyst: CG

Percent Moisture	39.7			wt%	1	5/20/2015 8:18:19 AM
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Analytical Report

WO#: 1505109

Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:10:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-003

Matrix: Sediment

Client Sample ID: TS-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polychlorinated Biphenyls (PCB) by EPA 8082

Batch ID: 10792

Analyst: NG

Aroclor 1016	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1221	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1232	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1242	0.503	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1248	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1254	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1260	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1262	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Aroclor 1268	ND	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Total PCBs	0.503	0.164		mg/Kg-dry	1	5/20/2015 3:25:00 AM
Surr: Decachlorobiphenyl	77.8	55.6-167		%REC	1	5/20/2015 3:25:00 AM
Surr: Tetrachloro-m-xylene	63.5	40.5-148		%REC	1	5/20/2015 3:25:00 AM

Diesel and Heavy Oil by AK102-AK103

Batch ID: 10771

Analyst: EC

Diesel Range Organics (C10-C25)	278,000	3,180	D	mg/Kg-dry	100	5/15/2015 2:01:00 PM
Residual Range Organics (C25-C36)	958	79.6		mg/Kg-dry	1	5/15/2015 12:19:00 PM
Surr: 2-Fluorobiphenyl	111	50-150		%REC	1	5/15/2015 12:19:00 PM
Surr: o-Terphenyl	105	50-150		%REC	1	5/15/2015 12:19:00 PM

Gasoline Range Organics by AK101

Batch ID: 10779

Analyst: BC

Gasoline Range Organics (C6-C10)	499	175	D	mg/Kg-dry	20	5/18/2015 11:50:00 PM
Surr: 1,4-Difluorobenzene	102	50-150		%REC	1	5/19/2015 1:32:00 AM
Surr: 4-Bromofluorobenzene	90.5	50-150		%REC	1	5/19/2015 1:32:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 10783

Analyst: BC

Benzene	0.121	0.0143		mg/Kg-dry	1	5/15/2015 8:46:00 PM
Toluene	5.62	0.286	D	mg/Kg-dry	20	5/15/2015 7:18:00 PM
Ethylbenzene	4.88	0.428	D	mg/Kg-dry	20	5/15/2015 7:18:00 PM
m,p-Xylene	24.5	0.286	D	mg/Kg-dry	20	5/15/2015 7:18:00 PM
o-Xylene	14.1	0.286	D	mg/Kg-dry	20	5/15/2015 7:18:00 PM
Surr: Dibromofluoromethane	95.1	63.7-129		%REC	1	5/15/2015 8:46:00 PM
Surr: Toluene-d8	103	64.3-131		%REC	1	5/15/2015 8:46:00 PM
Surr: 1-Bromo-4-fluorobenzene	102	63.1-141		%REC	1	5/15/2015 8:46:00 PM



Analytical Report

WO#: 1505109
Date Reported: 5/22/2015

Client: G-Logics

Collection Date: 5/10/2015 10:10:00 AM

Project: Hoonah Tank Farm

Lab ID: 1505109-003

Matrix: Sediment

Client Sample ID: TS-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by SW8260/TCLP ZHE

Batch ID: 10806 Analyst: BC

Benzene	1.49	0.129		µg/L	1	5/20/2015 6:55:00 AM
Surr: Dibromofluoromethane	97.4	80.3-123		%REC	1	5/20/2015 6:55:00 AM
Surr: Toluene-d8	104	79.8-120		%REC	1	5/20/2015 6:55:00 AM
Surr: 4-Bromofluorobenzene	101	83.5-119		%REC	1	5/20/2015 6:55:00 AM

Total Metals by EPA Method 6020

Batch ID: 10772 Analyst: TN

Lead	528	0.624		mg/Kg-dry	1	5/14/2015 6:56:51 PM
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Metals (SW6020) with TCLP Extraction (EPA 1311)

Batch ID: 10835 Analyst: TN

Lead	ND	0.200		mg/L	1	5/21/2015 7:42:27 PM
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Sample Moisture (Percent Moisture)

Batch ID: R22444 Analyst: CG

Percent Moisture	42.7			wt%	1	5/20/2015 8:18:19 AM
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Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID MB-10772	SampType: MBLK	Units: mg/Kg	Prep Date: 5/14/2015	RunNo: 22357							
Client ID: MBLKS	Batch ID: 10772	Analysis Date: 5/14/2015	SeqNo: 424284								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID LCS-10772	SampType: LCS	Units: mg/Kg	Prep Date: 5/14/2015	RunNo: 22357							
Client ID: LCSS	Batch ID: 10772	Analysis Date: 5/14/2015	SeqNo: 424285								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 242 0.200 237.0 0 102 75.1 124.9

Sample ID 1505112-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 5/14/2015	RunNo: 22357							
Client ID: BATCH	Batch ID: 10772	Analysis Date: 5/14/2015	SeqNo: 424287								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 6.70 0.176 6.592 1.59 20

Sample ID 1505112-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 5/14/2015	RunNo: 22357							
Client ID: BATCH	Batch ID: 10772	Analysis Date: 5/14/2015	SeqNo: 424289								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 29.7 0.177 22.13 6.592 104 75 125

Sample ID 1505112-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 5/14/2015	RunNo: 22357							
Client ID: BATCH	Batch ID: 10772	Analysis Date: 5/14/2015	SeqNo: 424290								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 26.7 0.176 21.95 6.592 91.7 75 125 29.67 10.4 20



Work Order: 1505109

CLIENT: G-Logics

Project: Hoonah Tank Farm

QC SUMMARY REPORT

Metals (SW6020) with TCLP Extraction (EPA 1311)

Sample ID MB-10827FB	SampType: MBLK	Units: mg/L			Prep Date: 5/21/2015	RunNo: 22529
Client ID: MBLKS	Batch ID: 10835				Analysis Date: 5/21/2015	SeqNo: 426767
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.200

Sample ID MB-10835	SampType: MBLK	Units: mg/L			Prep Date: 5/21/2015	RunNo: 22529
Client ID: MBLKS	Batch ID: 10835				Analysis Date: 5/21/2015	SeqNo: 426768
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.200

Sample ID LCS-10835	SampType: LCS	Units: mg/L			Prep Date: 5/21/2015	RunNo: 22529
Client ID: LCSS	Batch ID: 10835				Analysis Date: 5/21/2015	SeqNo: 426769
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 2.40 0.200 2.500 0 95.9 65 135

Sample ID 1505109-003ADUP	SampType: DUP	Units: mg/L			Prep Date: 5/21/2015	RunNo: 22529
Client ID: TS-3	Batch ID: 10835				Analysis Date: 5/21/2015	SeqNo: 426771
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.200 0 30

Sample ID 1505109-003AMS	SampType: MS	Units: mg/L			Prep Date: 5/21/2015	RunNo: 22529
Client ID: TS-3	Batch ID: 10835				Analysis Date: 5/21/2015	SeqNo: 426772
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 2.40 0.200 2.500 0 95.8 65 135



Date: 5/22/2015

Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Metals (SW6020) with TCLP Extraction (EPA 1311)

Sample ID 1505109-003AMSD	SampType: MSD	Units: mg/L				Prep Date: 5/21/2015	RunNo: 22529				
Client ID: TS-3	Batch ID: 10835					Analysis Date: 5/21/2015	SeqNo: 426773				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.38	0.200	2.500	0	95.2	65	135	2.396	0.643	30	



Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Diesel and Heavy Oil by AK102-AK103

Sample ID 1505112-001ADUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 5/14/2015	RunNo: 22384					
Client ID: BATCH	Batch ID: 10771				Analysis Date: 5/15/2015	SeqNo: 424761					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	21.9						0		30	
Residual Range Organics (C25-C36)	ND	54.8						0		30	
Surr: 2-Fluorobiphenyl	20.9		21.91		95.3	50	150		0	0	
Surr: o-Terphenyl	19.7		21.91		90.1	50	150		0	0	

Sample ID LCS-10771	SampType: LCS	Units: mg/Kg			Prep Date: 5/14/2015	RunNo: 22384					
Client ID: LCSS	Batch ID: 10771				Analysis Date: 5/15/2015	SeqNo: 424766					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	496	20.0	500.0	0	99.1	75	125				
Surr: 2-Fluorobiphenyl	20.4		20.00		102	60	120				
Surr: o-Terphenyl	19.2		20.00		96.1	60	120				

Sample ID MB-10771	SampType: MBLK	Units: mg/Kg			Prep Date: 5/14/2015	RunNo: 22384					
Client ID: MBLKS	Batch ID: 10771				Analysis Date: 5/15/2015	SeqNo: 424767					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (C10-C25)	ND	20.0									
Residual Range Organics (C25-C36)	ND	50.0									
Surr: 2-Fluorobiphenyl	21.7		20.00		108	60	120				
Surr: o-Terphenyl	20.6		20.00		103	60	120				



Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Gasoline Range Organics by AK101

Sample ID 1505109-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 5/15/2015	RunNo: 22419							
Client ID: TS-1	Batch ID: 10779		Analysis Date: 5/19/2015	SeqNo: 425312							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	1,120	8.18						993.6	11.5	20	E
Surr: 1,4-Difluorobenzene	4.15		4.092		101	50	150		0	0	
Surr: 4-Bromofluorobenzene	25.7		4.092		628	50	150		0		S

NOTES:

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

Sample ID LCS-10779	SampType: LCS	Units: mg/Kg	Prep Date: 5/15/2015	RunNo: 22419							
Client ID: LCSS	Batch ID: 10779		Analysis Date: 5/18/2015	SeqNo: 425319							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	23.9	5.00	25.00	0	95.6	60	120				
Surr: 1,4-Difluorobenzene	2.45		2.500		98.0	60	120				
Surr: 4-Bromofluorobenzene	2.39		2.500		95.8	60	120				

Sample ID MB-10779	SampType: MBLK	Units: mg/Kg	Prep Date: 5/15/2015	RunNo: 22419							
Client ID: MBLKS	Batch ID: 10779		Analysis Date: 5/18/2015	SeqNo: 425320							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (C6-C10)	ND	5.00									
Surr: 1,4-Difluorobenzene	2.79		2.500		112	60	120				
Surr: 4-Bromofluorobenzene	2.38		2.500		95.3	60	120				

Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID 1505109-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 5/18/2015	RunNo: 22498				
Client ID: TS-1	Batch ID: 10792					Analysis Date: 5/18/2015	SeqNo: 426168				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.73	0.148	1.484	0.06767	112	61.7	139				
Aroclor 1260	1.33	0.148	1.484	0	89.3	63.1	138				
Surr: Decachlorobiphenyl	50.1		74.19		67.5	55.6	167				
Surr: Tetrachloro-m-xylene	48.2		74.19		65.0	40.5	148				

Sample ID 1505109-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 5/18/2015	RunNo: 22498				
Client ID: TS-1	Batch ID: 10792					Analysis Date: 5/18/2015	SeqNo: 426169				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.76	0.159	1.590	0.06767	107	61.7	139	1.734	1.62	30	
Aroclor 1260	1.63	0.159	1.590	0	103	63.1	138	1.326	20.8	30	
Surr: Decachlorobiphenyl	55.7		79.52		70.0	55.6	167		0		
Surr: Tetrachloro-m-xylene	52.6		79.52		66.1	40.5	148		0		

Sample ID LCS1-10792	SampType: LCS	Units: mg/Kg				Prep Date: 5/18/2015	RunNo: 22498				
Client ID: LCSS	Batch ID: 10792					Analysis Date: 5/18/2015	SeqNo: 426177				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.983	0.100	1.000	0	98.3	45.8	133				
Aroclor 1260	0.929	0.100	1.000	0	92.9	57	134				
Surr: Decachlorobiphenyl	36.2		50.00		72.5	55.6	167				
Surr: Tetrachloro-m-xylene	40.7		50.00		81.4	40.5	148				

Sample ID LCS2-10792	SampType: LCS	Units: mg/Kg				Prep Date: 5/18/2015	RunNo: 22498				
Client ID: LCSS	Batch ID: 10792					Analysis Date: 5/18/2015	SeqNo: 426178				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1221	0.966	0.100	1.000	0	96.6	45.8	133				
Surr: Decachlorobiphenyl	36.4		50.00		72.8	55.6	167				
Surr: Tetrachloro-m-xylene	40.1		50.00		80.2	40.5	148				



Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID LCS2-10792	SampType: LCS	Units: mg/Kg	Prep Date: 5/18/2015	RunNo: 22498							
Client ID: LCSS	Batch ID: 10792	Analysis Date: 5/18/2015	SeqNo: 426178								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID MB-10792	SampType: MBLK	Units: mg/Kg	Prep Date: 5/18/2015	RunNo: 22498							
Client ID: MBLKS	Batch ID: 10792	Analysis Date: 5/18/2015	SeqNo: 426179								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.100									
Aroclor 1221	ND	0.100									
Aroclor 1232	ND	0.100									
Aroclor 1242	ND	0.100									
Aroclor 1248	ND	0.100									
Aroclor 1254	ND	0.100									
Aroclor 1260	ND	0.100									
Aroclor 1262	ND	0.100									
Aroclor 1268	ND	0.100									
Total PCBs	ND	0.100									
Surr: Decachlorobiphenyl	40.9		50.00		81.9	55.6	167				
Surr: Tetrachloro-m-xylene	35.4		50.00		70.8	40.5	148				

Sample ID CCV-1242-A-10792	SampType: CCV	Units: mg/Kg	Prep Date: 5/20/2015	RunNo: 22498							
Client ID: CCV	Batch ID: 10792	Analysis Date: 5/20/2015	SeqNo: 426184								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1242	0.832	0.100	1.000	0	83.2	80	120				
Surr: Decachlorobiphenyl	192		200.0		95.9	50.2	159				
Surr: Tetrachloro-m-xylene	186		200.0		92.9	60.3	134				



Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1505133-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/15/2015	RunNo:	22391		
Client ID:	BATCH	Batch ID:	10783			Analysis Date:	5/15/2015	SeqNo:	424838		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0238						0		30	
Toluene	ND	0.0238						0		30	
Ethylbenzene	ND	0.0357						0		30	
m,p-Xylene	ND	0.0238						0		30	
o-Xylene	ND	0.0238						0		30	
Surr: Dibromofluoromethane	1.42		1.487		95.5	63.7	129		0		
Surr: Toluene-d8	1.50		1.487		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.57		1.487		106	63.1	141		0		

Sample ID	1505133-008BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	5/15/2015	RunNo:	22391		
Client ID:	BATCH	Batch ID:	10783			Analysis Date:	5/15/2015	SeqNo:	424839		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.05	0.0236	1.180	0	88.8	63.5	133				
Toluene	1.06	0.0236	1.180	0	90.2	63.4	132				
Ethylbenzene	1.20	0.0354	1.180	0	102	54.5	134				
m,p-Xylene	2.38	0.0236	2.360	0	101	53.1	132				
o-Xylene	1.21	0.0236	1.180	0	102	53.3	139				
Surr: Dibromofluoromethane	1.54		1.475		104	63.7	129				
Surr: Toluene-d8	1.50		1.475		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.53		1.475		104	63.1	141				

Sample ID	LCS-10783	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/15/2015	RunNo:	22391		
Client ID:	LCSS	Batch ID:	10783			Analysis Date:	5/15/2015	SeqNo:	424842		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.869	0.0200	1.000	0	86.9	64.3	133				
Toluene	0.866	0.0200	1.000	0	86.6	67.3	138				
Ethylbenzene	0.996	0.0300	1.000	0	99.6	74	129				
m,p-Xylene	1.97	0.0200	2.000	0	98.7	79.8	128				

Work Order: 1505109
 CLIENT: G-Logics
 Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-10783	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/15/2015	RunNo:	22391		
Client ID:	LCSS	Batch ID:	10783			Analysis Date:	5/15/2015	SeqNo:	424842		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	1.00	0.0200	1.000	0	100	72.7	124				
Surr: Dibromofluoromethane	1.28		1.250		103	63.7	129				
Surr: Toluene-d8	1.25		1.250		99.6	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	63.1	141				

Sample ID	MB-10783	SampType:	MBLK	Units:	mg/Kg	Prep Date:	5/15/2015	RunNo:	22391		
Client ID:	MBLKS	Batch ID:	10783			Analysis Date:	5/15/2015	SeqNo:	424843		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.18		1.250		94.4	63.7	129				
Surr: Toluene-d8	1.25		1.250		100	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	63.1	141				

Sample ID	CCV-C-10783	SampType:	CCV	Units:	µg/L	Prep Date:	5/19/2015	RunNo:	22391		
Client ID:	CCV	Batch ID:	10783			Analysis Date:	5/19/2015	SeqNo:	425730		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

m,p-Xylene	39.4	0.0200	40.00	0	98.4	80	120				
o-Xylene	20.1	0.0200	20.00	0	100	80	120				
Surr: Dibromofluoromethane	25.4		25.00		102	63.7	129				
Surr: Toluene-d8	24.5		25.00		97.9	61.4	128				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	63.1	141				



Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by SW8260/TCLP ZHE

Sample ID	LCS-10766	SampType:	LCS	Units:	µg/L	Prep Date:	5/13/2015	RunNo:	22446		
Client ID:	LCSW	Batch ID:	10766			Analysis Date:	5/20/2015	SeqNo:	425886		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.7	1.00	20.00	0	93.7	73.9	125				
Surr: Dibromofluoromethane	24.4		25.00		97.8	80.3	123				
Surr: Toluene-d8	24.7		25.00		99.0	79.8	120				
Surr: 4-Bromofluorobenzene	23.9		25.00		95.7	83.5	119				

Sample ID	LCS-10766	SampType:	LCS	Units:	µg/L	Prep Date:	5/13/2015	RunNo:	22446		
Client ID:	LCSW02	Batch ID:	10766			Analysis Date:	5/20/2015	SeqNo:	425887		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.6	1.00	20.00	0	98.2	73.9	125	18.74	4.64	20	
Surr: Dibromofluoromethane	25.5		25.00		102	80.3	123		0	0	
Surr: Toluene-d8	25.1		25.00		100	79.8	120		0	0	
Surr: 4-Bromofluorobenzene	25.1		25.00		100	83.5	119		0	0	

Sample ID	MB-10766	SampType:	MBLK	Units:	µg/L	Prep Date:	5/13/2015	RunNo:	22446		
Client ID:	MBLKW	Batch ID:	10766			Analysis Date:	5/20/2015	SeqNo:	425888		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Surr: Dibromofluoromethane	25.6		25.00		103	80.3	123				
Surr: Toluene-d8	24.8		25.00		99.2	79.8	120				
Surr: 4-Bromofluorobenzene	24.3		25.00		97.1	83.5	119				

Sample ID	MB-10778	SampType:	MBLK	Units:	µg/L	Prep Date:	5/14/2015	RunNo:	22446		
Client ID:	MBLKW	Batch ID:	10778			Analysis Date:	5/20/2015	SeqNo:	425889		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Surr: Dibromofluoromethane	25.7		25.00		103	80.3	123				
Surr: Toluene-d8	24.5		25.00		98.0	79.8	120				

Work Order: 1505109
CLIENT: G-Logics
Project: Hoonah Tank Farm

QC SUMMARY REPORT
Volatile Organic Compounds by SW8260/TCLP ZHE

Sample ID MB-10778	SampType: MBLK	Units: µg/L			Prep Date: 5/14/2015	RunNo: 22446					
Client ID: MBLKW	Batch ID: 10778				Analysis Date: 5/20/2015	SeqNo: 425889					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	24.2		25.00		96.8	83.5	119				

Sample ID MB-10806	SampType: MBLK	Units: µg/L			Prep Date: 5/18/2015	RunNo: 22446					
Client ID: MBLKW	Batch ID: 10806				Analysis Date: 5/20/2015	SeqNo: 425890					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Surr: Dibromofluoromethane	26.6		25.00		106	80.3	123				
Surr: Toluene-d8	25.8		25.00		103	79.8	120				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.4	83.5	119				

Client Name: GL	Work Order Number: 1505109
Logged by: Erica Silva	Date Received: 5/13/2015 3:00:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
Meoh
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<u>Stuart Hyde</u>	Date:	<u>5/13/2015</u>
By Whom:	<u>Mike Ridgeway</u>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<u>No Septa MeOH iars received for AK 101</u>		
Client Instructions:	<u>Proceed with extraction into MeOH VOAs</u>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	9.2
Sample	9.8
Temp Blank	11.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (internal): 1505109
Page: 1 at 1

Client: Gr-logics
Address: 40 1st Ave SE
City, State, Zip: Issaquah

Tel: 425-391-8874
Reports To (PMA): SH

Project Name: Hornth Towl Farm
Location: Hornth Aik
Collected by: SH

Email: Shawn@gr-logics Project No: 01-0394-D

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	SVX/TEX	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DOR)	SEM VOC (EPA 8270)	PAH (EPA 8270 - 564)	PCB (EPA 808)	Metals** (6020 / 200-8)	Total (T) Dissolved (D)	Alloys (CP)**	EDS (8003)	Asphalt/Petroleum	TEL/P-Benzene	EDIS	Comments/Depth
1 TS-1	5/10	1000	SD	X			X						X	X	X	X				4.08 μm
2 TS-2		1005	SD	X			X						X	X	X	X				
3 TS-3		1010	SD	X			X						X	X	X	X				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

**Metals Analysis (Circle): ARCA-5 RECA-8 Priority Polutants TAL Inclusion: Ag Al As B Ba Be Cl Cr Cu Fe Hg K Ni Mg Mn Pb Pd Se Si Sn Ti Tl U V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Cadmium Phosphate Fluoride Mercury-Nitrite
 Sample Preservation: Return to Client Disposal by Lab (a fee may be assessed if sample is returned after 30 days)
 Date/Time: 5/13/15 1500
 Date/Time: 5-13-15 1500
 TAT -> SameDay* NextDay* 2 Day 3Day 5Day
 Reference concentrations with this lab in advance.



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/13/15

Laboratory Project No (Internal): 1505109a
Page 1 of 1

Client: G-Logics
Address: 40 1st Ave SE
City, State, Zip: Issaquah WA

Tel: 425 394 8794
Fax:

Project Name:
Location:
Collected by:

Hannah Tack Fern
Hannah Aik
SH
Email: Structures-Logics Project No: 01-0294-D

*Matrix Codes: A = Air, AQ = Aquatic, B = Bulk, D = Other, P = Product, S = Soil, SD = Sediment, SI = Solid, W = Water, WM = Drinking Water, GW = Ground Water, VW = Vapor Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes										Comments/Depth						
				VOCs (EPA 8260)	CHLORIDES	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HI-C10)	Distillable Organics (DO)	SEMI-VOI (EPA 8270)	PAH (EPA 8270 - 504)	PCB (EPA 8082)	Metals** (4000 / 200.8)		Total (T) / Dissolved (D)	Anions (IC)**	EDS (4011)	Nonhalogenated PCBs	TCF Benzene	EDS
1 TS-1	5/10	1000	SD	X			X				X	X	X	X	X	X	X	X	X	4.0 ft
2 TS-2		1005	SD	X			X				X	X	X	X	X	X	X	X	X	
3 TS-3	5/10	1010	SD	X			X				X	X	X	X	X	X	X	X	X	4.0 ft
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Special Remarks: All 101, 102, 103 Methods

ADD Analysis per client request Remove 104 and 105 from your analysis 5/13/15 ASD

Standard Package: Return to Client Dispose by lab (following approved sampling method per 311.049-1)

Received: [Signature] Date/Time: 5-13-15 1500

Reported: [Signature] Date/Time: 5-13-15 1500

Reference: [Signature] Date/Time: 5/13/15 1500

TAT -> SameDay NextDay 2 Day [Signature]

**SITE
PHOTOGRAPHS**

Photo

1



Description: Oil adsorbent material (i.e., kitty litter) found to the north of the truck rack.

Comments: Obvious fuel spills were present in the truck-rack area. Petroleum staining and odors were present.

Photo

2



Description: Petroleum staining and odors present to the west of the truck rack. Location of testpit TP -15.

Comments: This area is located within approximately 15 feet of the seawall rockery.

ATTACHMENTS

Permission and Conditions for Use and Copying Form

**Soil Sampling, Former Truck Loading Rack
Hoonah Fueling, 147 Front Street
Hoonah, AK 99829**

**G-Logics Project 01-0294-D
July 17, 2015**

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- I understand and accept that there may be limitations to the reliability of the Document’s findings due to circumstances beyond the control of G-Logics, the limited scope of funding, and/or limitations inherent in the nature of the performed services.
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Mailing Address _____
City, State, Zip Code _____
Contact Name & Title _____
Signature & Date _____
Telephone & Fax Numbers _____
Planned Use of Document _____

With your information and signature above, please fax to G-Logics (425-313-3074) for approval review. G-Logics will share your request with our Client for their approval.

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Per the notification of G-Logics, I, the Client, have reviewed this request for copying/use of this Document, have discussed the request with G-Logics, and grant my consent as indicated by my signature below.

Client Company _____
Client Contact Name & Title _____
Signature & Date _____
Telephone & Fax Numbers _____

G-Logics review and Acknowledgment of Use and Copying Request

Based on your concurrence with the above-presented conditions, approval of our Client, and our review of the information, G-Logics allows the Requestor to copy/use the above referenced Document for purposes stated. Additional fees may apply.

G-Logics Signature _____
Title _____
Date _____

