HALEY & ALDRICH, INC.
3131 Elliott Avenue
Suite 600
Seattle, WA 98121
206.324.9530

22 March 2024
File No. 0205286-001

Kenworth Truck Company
485 Houser Way North
Renton, Washington 98057

Attention: Tom Nelson, Facility Engineering Manager
Brian Haderlie, Environmental Manager

Subject: Environmental Construction Monitoring Summary Report
Kenworth Truck Facility
Renton, Washington

Dear Tom and Brian:

Haley & Aldrich, Inc. (Haley & Aldrich) provided environmental construction support at the Kenworth Truck Company (Kenworth) in Renton, Washington (Figure 1). This summary report presents the results of the environmental soil sampling and analysis services completed in general accordance with our agreement dated 12 December 2023, under Purchase Order 3700128269.

Project Background

Kenworth completed a small construction project in the northwest corner of the property to replace a natural gas line utility (Figure 2). Construction activities consisted of (1) saw cutting the existing slab and removing subgrade, and (2) placing a new concrete slab. As part of the construction, approximately 25 cubic yards of soil was removed from the excavation and stockpiled in a roll-off bin stored on site. Haley & Aldrich was on site to collect a soil sample to characterize the soil for offsite disposal.

Stockpile Soil Characterization Results

On 18 December 2023, a Haley & Aldrich representative field screened and collected a five-point composite sample from the stockpiled soil. The stockpiled soil did not exhibit any obvious environmental impacts (i.e., no odor, no sheen, and no elevated soil headspace readings). The stockpile sample was submitted to the analytical laboratory for chemical analysis of the following analyses:

- Diesel- and oil-range total petroleum hydrocarbons by Washington State Department of Ecology (Ecology) Method NWTPH-Dx;
- Total metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by United States Environmental Protection Agency (EPA) Method 6020B;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082A; and
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270E SIM.

The data is summarized in Table 1 and the data usability summary report (data quality review) is provided in Attachment 1. The following summarizes the analytical results for the stockpile sample NGL-01:

- Diesel- and oil-range total petroleum hydrocarbons were not detected at or above laboratory reporting limits.
- Arsenic, barium, chromium, and lead were detected at low-level concentrations of 3.03, 41.3, 12.6, and 2.04 milligrams per kilogram, respectively, and are below respective MTCA Method A soil cleanup levels and within the background levels for the Puget Sound area (Ecology, 1994)[1]. Cadmium, mercury, selenium, and silver were not detected at or above laboratory reporting limits.
- PCBs were not detected at or above laboratory reporting limits.
- PAHs were not detected at or above laboratory reporting limits.

The excavated soil that was stockpiled was designated as non-hazardous waste. Approximately 25 cubic yards of soil was hauled to Burlington Environmental, LLC for disposal. Disposal documentation is provided in Attachment 2.

Limitations

Work for this project was performed, and this letter report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of Kenworth for specific application to the referenced property. This letter report is not meant to represent a legal opinion. No other warranty, express or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned.

[1] Ecology, 1994. Natural Background Soil Metals Concentration in Washington State. October.

We trust that this letter report meets your needs.

Sincerely yours,
HALEY & ALDRICH, INC.

Angie Goodwin, L.H.G.
Project Manager, Hydrogeologist

Mike Ehlebracht, L.H.G.
Principal Geochemist

Attachments:

Table 1 – Summary of Soil Quality Data
Figure 1 – Project Locus
Figure 2 – Site Plan
Attachment 1 – Data Usability Summary Report and Laboratory Report
Attachment 2 – Soil Disposal Manifest

\\haleyaldrich.com\share\sea_projects\Notebooks\0203695-000_Kenworth_Construction_Monitoring\Deliverables In-Basket\0203695-001_Kenworth_NW Utility Summary Rpt_F\2024-0322_HAI_KW NGL Utility_F.docx

TABLE

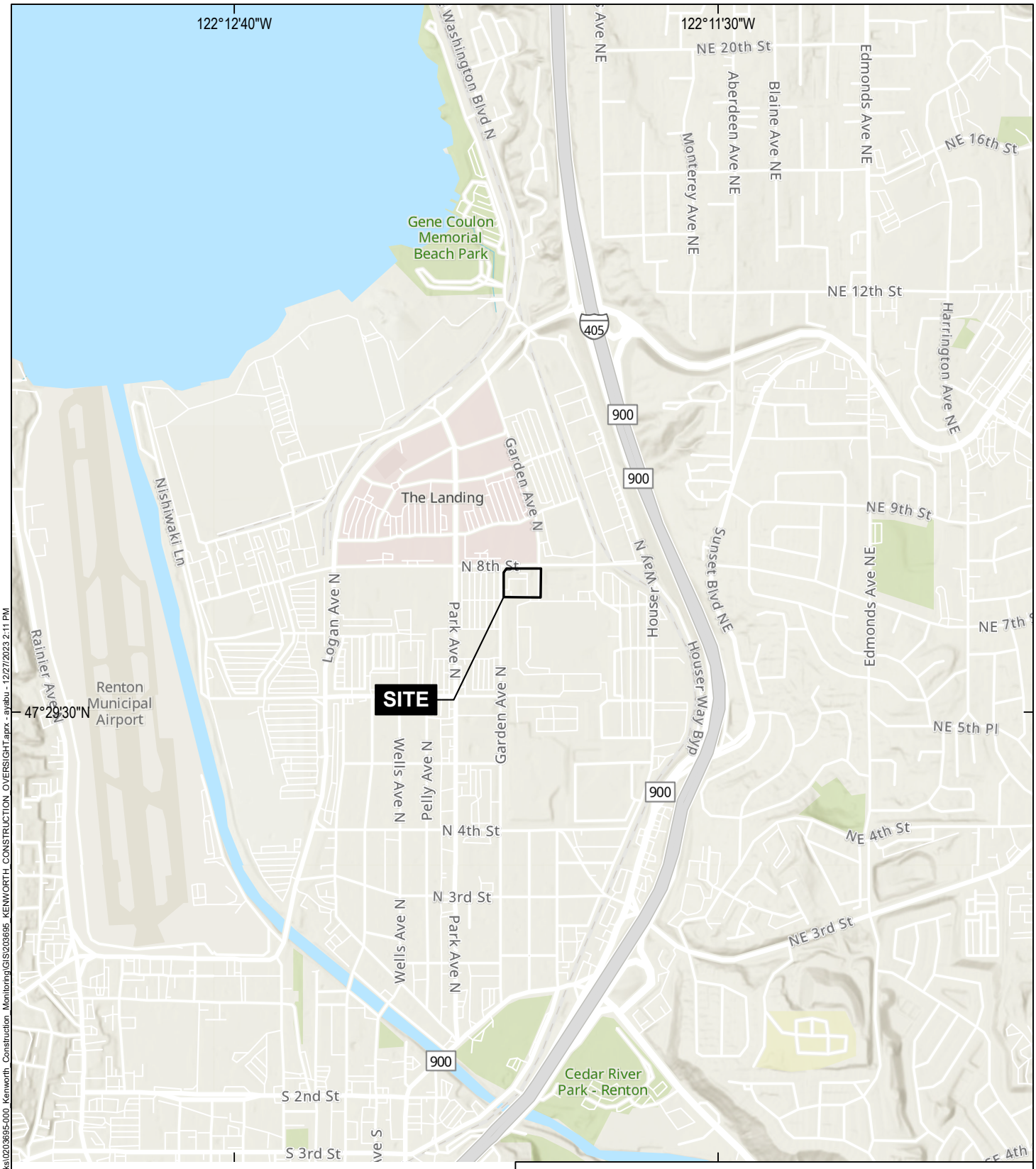
TABLE 1
SUMMARY OF SOIL QUALITY DATA
KENWORTH, A DIVISION OF PACCAR
KENWORTH CONSTRUCTION OVERSIGHT - NATURAL GAS LINE REPLACEMENT
RENTON, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	MTCA Method A Unrestricted	NGL-01 NGL-01-20231218 12/18/2023 312320-01
Semi-Volatile Organic Compounds (mg/kg)		
1-Methylnaphthalene	NA	0.05 U
2-Methylnaphthalene	NA	0.05 U
Acenaphthene	NA	0.05 U
Acenaphthylene	NA	0.05 U
Anthracene	NA	0.05 U
Benzo(a)anthracene	NA	0.05 U
Benzo(a)pyrene	0.1	0.05 U
Benzo(b)fluoranthene	NA	0.05 U
Benzo(g,h,i)perylene	NA	0.05 U
Benzo(k)fluoranthene	NA	0.05 U
Chrysene	NA	0.05 U
Dibenz(a,h)anthracene	NA	0.05 U
Fluoranthene	NA	0.05 U
Fluorene	NA	0.05 U
Indeno(1,2,3-cd)pyrene	NA	0.05 U
Naphthalene	5	0.05 U
Phenanthrene	NA	0.05 U
Pyrene	NA	0.05 U
Total Petroleum Hydrocarbons (mg/kg)		
Total Petroleum Hydrocarbons (C10-C25) DRO - Diesel	2000	50 U
Total Petroleum Hydrocarbons (C25-C36) ORO - Oil	2000	250 U
Inorganic Compounds (mg/kg)		
Arsenic	20	**3.03**
Barium	NA	**41.3**
Cadmium	2	1 U
Chromium	NA	**12.6**
Lead	250	**2.04**
Mercury	2	1 U
Selenium	NA	1 U
Silver	NA	1 U
PCBs (mg/kg)		
Aroclor-1016 (PCB-1016)	NA	0.02 U
Aroclor-1221 (PCB-1221)	NA	0.02 U
Aroclor-1232 (PCB-1232)	NA	0.02 U
Aroclor-1242 (PCB-1242)	NA	0.02 U
Aroclor-1248 (PCB-1248)	NA	0.02 U
Aroclor-1254 (PCB-1254)	NA	0.02 U
Aroclor-1260 (PCB-1260)	NA	0.02 U
Aroclor-1262 (PCB-1262)	NA	0.02 U
Aroclor-1268 (PCB-1268)	NA	0.02 U

Notes:

Bold *values indicate a detected concentration.*
mg/kg: milligrams per kilogram
MTCA: Model Toxics Control Act
NA: No Action level established
U: not detected, value is the laboratory reporting limit

FIGURES



HALEY ALDRICH

KENWORTH TRUCK CO.
RENTON, WASHINGTON

PROJECT LOCUS

MAP SOURCE: ESRI
SITE COORDINATES: 47°29'42"N, 122°11'59"W

APPROXIMATE SCALE: 1 IN = 2000 FT
JANUARY 2024

FIGURE 1

GIS: \\haleyaldrich.com\share\sea_projects\Notebooks\0203695-000_Kenworth_Construction_Monitoring\GIS\203695_KENWORTH_CONSTRUCTION_OVERSIGHT.aprx - ayabu - 12/27/2023 2:11 PM

LEGEND

- NEW GAS LINE
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: NEARMAP, 12 AUGUST 2023

N

0 40 80

SCALE IN FEET

HALEY ALDRICH

KENWORTH TRUCK CO.
RENTON, WASHINGTON

SITE PLAN

JANUARY 2024

FIGURE 2

ATTACHMENT 1
Data Usability Summary Report and Laboratory Report

Haley & Aldrich, Inc.
600 South Meyer Ave.
Suite 100
Tucson, AZ 85701
520.289.8621

Data Usability Summary Report

Project Name: Kenworth

Project Description: Soil Samples

Sample Date(s): 18 December 2023

Analytical Laboratory: Friedman & Bruya, Inc. – Seattle, WA

Validation Performed by: Kathryn Lindenschmidt

Validation Reviewed by: Katherine Miller

Validation Date: 2 January 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Number 312320**
2. **Explanations**
3. **Glossary**
4. **Abbreviations**
5. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number 312320

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 312320, dated 27 December 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
NGL-01	N	312320-01	12/18/2023	Soil	A, B, C, D

Method Holding Times			
A.	NWTPH-DX	Total Extractable Hydrocarbons Diesel	14 days
B.	SW6020B	Metals	180 days
C.	SW8082	Polychlorinated Biphenyls (PCBs)	14 days ext./40 days analysis
D.	SW8270E	Polycyclic Aromatic Hydrocarbons (PAHs)	14 days ext./40 days analysis

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples are based on the sample amount provided.

1.4 REPORTING BASIS (WET/DRY)

Refer to Section E 1.1. Soil data in this SDG were reported on a dry weight basis.

Where reported, percent moisture was reviewed and found to be within limits.

1.5 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory's specified quality control (QC) limits.

1.6 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control samples (LCS) analyses associated with client samples exhibited recoveries within the specified limits.

1.7 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
312320-01	NGL-01	NWTPH-DX

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits.

1.8 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.9 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

No field duplicates were collected in this dataset.

1.10 PRECISION AND ACCURACY

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples, with the following exceptions:

- No precision was reported for SW6020B, SW8082, and SW8270E for this SDG, other than the batch QC, which was acceptable.

1.11 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
  - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
  - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
  - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
  - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
  - pg/L picograms per liter
- Matrices:
  - SO Soil
  - SSV Sub-slab Vapor
  - WQ Water Quality control matrix
  - WS Surface Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius
  - ± plus or minus
  - ~ approximately
  - x times (multiplier)
- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

4. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E The compound was quantitated above the calibration range.

  D The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ The result is an estimated quantity, but the result may be biased high.

  J- The result is an estimated quantity, but the result may be biased low.

  J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

  NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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December 27, 2023

Angie Goodwin, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Goodwin:

Included are the results from the testing of material submitted on December 18, 2023 from the Kenworth P203695-001, F&BI 312320 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Haley Aldrich Data
HNA1227R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2023 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Kenworth P203695-001, F&BI 312320 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Haley & Aldrich, Inc
312320 -01	NGL-01

All quality control requirements were acceptable.

Date of Report: 12/27/23
Date Received: 12/18/23
Project: Kenworth P203695-001, F&BI 312320
Date Extracted: 12/19/23
Date Analyzed: 12/19/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
NGL-01 312320-01	<50	<250	89
Method Blank 03-2928 MB	<50	<250	90

Analysis For Total Metals By EPA Method 6020B

Client ID:	NGL-01	Client:	Haley & Aldrich, Inc
Date Received:	12/18/23	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	312320-01
Date Analyzed:	12/21/23	Data File:	312320-01.154
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.03
Chromium	12.6
Lead	2.04

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Haley & Aldrich, Inc
Date Received:	NA	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	I3-1002 mb2
Date Analyzed:	12/21/23	Data File:	I3-1002 mb2.119
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Chromium	<1
Lead	<1

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	NGL-01	Client:	Haley & Aldrich, Inc
Date Received:	12/18/23	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	312320-01 1/25
Date Analyzed:	12/19/23	Data File:	121928.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	62 d	10	198
2-Fluorobiphenyl	80 d	45	117
2,4,6-Tribromophenol	86 d	11	158
Terphenyl-d14	99 d	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.05
2-Methylnaphthalene	<0.05
1-Methylnaphthalene	<0.05
Acenaphthylene	<0.05
Acenaphthene	<0.05
Fluorene	<0.05
Phenanthrene	<0.05
Anthracene	<0.05
Fluoranthene	<0.05
Pyrene	<0.05
Benz(a)anthracene	<0.05
Chrysene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Indeno(1,2,3-cd)pyrene	<0.05
Dibenz(a,h)anthracene	<0.05
Benzo(g,h,i)perylene	<0.05

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Haley & Aldrich, Inc
Date Received:	Not Applicable	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	03-2929 mb 1/5
Date Analyzed:	12/19/23	Data File:	121912.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Nitrobenzene-d5	83	10	198
2-Fluorobiphenyl	88	45	117
2,4,6-Tribromophenol	73	11	158
Terphenyl-d14	100	50	124

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	NGL-01	Client:	Haley & Aldrich, Inc
Date Received:	12/18/23	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	312320-01 1/30
Date Analyzed:	12/19/23	Data File:	121905.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	AL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	108	11	184
Decachlorobiphenyl	93	25	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Haley & Aldrich, Inc
Date Received:	Not Applicable	Project:	Kenworth P203695-001
Date Extracted:	12/19/23	Lab ID:	03-2924 mb2 1/30
Date Analyzed:	12/19/23	Data File:	121904.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	AL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	99	11	184
Decachlorobiphenyl	100	25	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

Date of Report: 12/27/23
Date Received: 12/18/23
Project: Kenworth P203695-001, F&BI 312320

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 312320-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	54	83	87	64-136	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	84	78-121

Date of Report: 12/27/23
Date Received: 12/18/23
Project: Kenworth P203695-001, F&BI 312320

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 312296-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.15	82 b	79 b	75-125	4 b
Chromium	mg/kg (ppm)	50	14.4	83 b	82 b	75-125	1 b
Lead	mg/kg (ppm)	50	67.3	80 b	74 b	75-125	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Chromium	mg/kg (ppm)	50	117	80-120
Lead	mg/kg (ppm)	50	96	80-120

Date of Report: 12/27/23
Date Received: 12/18/23
Project: Kenworth P203695-001, F&BI 312320

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 312309-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	85	83	28-125	2
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	88	87	10-192	1
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	88	86	10-163	2
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	90	90	45-128	0
Acenaphthene	mg/kg (ppm)	0.83	<0.01	90	90	36-125	0
Fluorene	mg/kg (ppm)	0.83	<0.01	91	93	48-121	2
Phenanthrene	mg/kg (ppm)	0.83	<0.01	90	94	46-122	4
Anthracene	mg/kg (ppm)	0.83	<0.01	91	95	30-144	4
Fluoranthene	mg/kg (ppm)	0.83	<0.01	96	100	50-150	4
Pyrene	mg/kg (ppm)	0.83	<0.01	94	93	40-134	1
Benz(a)anthracene	mg/kg (ppm)	0.83	<0.01	97	96	50-150	1
Chrysene	mg/kg (ppm)	0.83	<0.01	96	94	50-150	2
Benzo(a)pyrene	mg/kg (ppm)	0.83	<0.01	99	100	50-150	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	<0.01	97	95	50-150	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	<0.01	95	99	50-150	4
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	<0.01	108	104	40-140	4
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	108	103	41-136	5
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	<0.01	103	97	29-139	6

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	86	57-107
2-Methylnaphthalene	mg/kg (ppm)	0.83	90	63-112
1-Methylnaphthalene	mg/kg (ppm)	0.83	90	63-113
Acenaphthylene	mg/kg (ppm)	0.83	92	70-130
Acenaphthene	mg/kg (ppm)	0.83	91	66-112
Fluorene	mg/kg (ppm)	0.83	95	67-117
Phenanthrene	mg/kg (ppm)	0.83	97	70-130
Anthracene	mg/kg (ppm)	0.83	97	70-130
Fluoranthene	mg/kg (ppm)	0.83	101	70-130
Pyrene	mg/kg (ppm)	0.83	94	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	98	70-130
Chrysene	mg/kg (ppm)	0.83	100	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	103	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	103	67-128
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	103	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	98	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	100	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	95	65-130

Date of Report: 12/27/23
Date Received: 12/18/23
Project: Kenworth P203695-001, F&BI 312320

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 312309-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	96	98	24-163	2
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	101	100	10-194	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	110	47-158
Aroclor 1260	mg/kg (ppm)	0.25	104	69-141

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

312320

SAMPLE CHAIN OF CUSTODY

12/18/23 M1/VS01

Page # 1 of 1

Report To Angie Goodwin

Company Haley & Aldrich

Address

City, State, ZIP

Phone Email Agoodwin@haleyaldrich.com

SAMPLERS (*signature*)

PROJECT NAME	PO #
Kenworth	P203695-001
REMARKS	INVOICE TO
Project specific RLs? - Yes / No	

TURNAROUND TIME
- ☑ Standard turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic	Chromium	Lead		Notes
NGL-01	01A-F	12/18/23	0845	S	6	X					X	X	X	X	X		some gravel in sample

Samples received at 3 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Zach Stephens	Haley & Aldrich	12/18/23	0945
~~Received by:~~	Michael Erdahl	F&B Inc	12/18/23	0945
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

January 9, 2024

Angie Goodwin, Project Manager
Haley & Aldrich, Inc
3131 Elliott Ave, Suite 600
Seattle, WA 98121

Dear Ms Goodwin:

Included are the additional results from the testing of material submitted on December 18, 2023 from the Kenworth P203695-001, F&BI 312320 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Haley Aldrich Data
HNA0109R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 18, 2023 by Friedman & Bruya, Inc. from the Haley & Aldrich, Inc Kenworth P203695-001, F&BI 312320 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Haley & Aldrich, Inc
312320 -01	NGL-01

All quality control requirements were acceptable.

Date of Report: 01/09/24
Date Received: 12/18/24
Project: Kenworth P203695-001, F&BI 312320
Date Extracted: NA
Date Analyzed: 12/19/23

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR PERCENT MOISTURE USING ASTM D2216-98

Sample ID Laboratory ID	% Moisture
NGL-01 312320-01	8

Analysis For Total Metals By EPA Method 6020B

Client ID:	NGL-01	Client:	Haley & Aldrich, Inc
Date Received:	12/18/24	Project:	Kenworth P203695-001, F&BI 312320
Date Extracted:	12/19/23	Lab ID:	312320-01
Date Analyzed:	12/21/23	Data File:	312320-01.154
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.03
Barium	41.3
Cadmium	<1
Chromium	12.6
Lead	2.04
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Haley & Aldrich, Inc
Date Received:	Not Applicable	Project:	Kenworth P203695-001, F&BI 312320
Date Extracted:	12/19/23	Lab ID:	I3-1002 mb2
Date Analyzed:	12/21/23	Data File:	I3-1002 mb2.119
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Date of Report: 01/09/24
Date Received: 12/18/24
Project: Kenworth P203695-001, F&BI 312320

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 312296-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.15	82 b	79 b	75-125	4 b
Barium	mg/kg (ppm)	50	142	82 b	105 b	75-125	25 b
Cadmium	mg/kg (ppm)	10	<5	92	92	75-125	0
Chromium	mg/kg (ppm)	50	14.4	83 b	82 b	75-125	1 b
Lead	mg/kg (ppm)	50	67.3	80 b	74 b	75-125	8 b
Mercury	mg/kg (ppm	5	<5	80	75	75-125	6
Selenium	mg/kg (ppm)	5	<5	82	77	75-125	6
Silver	mg/kg (ppm)	10	<5	81	85	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Barium	mg/kg (ppm)	50	99	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Chromium	mg/kg (ppm)	50	117	80-120
Lead	mg/kg (ppm)	50	96	80-120
Mercury	mg/kg (ppm)	5	88	80-120
Selenium	mg/kg (ppm)	5	97	80-120
Silver	mg/kg (ppm)	10	95	80-120

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

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cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

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fb - The analyte was detected in the method blank.

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ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

312320

SAMPLE CHAIN OF CUSTODY

12/18/23 M1/VS01

Page # 1 of 1

Report To Angie Goodwin

Company Haley & Aldrich

Address

City, State, ZIP

Phone Email Agoodwin@haleyaldrich.com

SAMPLERS (*signature*)

PROJECT NAME	PO #
Kenworth	P203695-001
REMARKS	INVOICE TO
Project specific RLs? - Yes / No	

TURNAROUND TIME
- ☑ Standard turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic	Chromium	Lead	RCRA Metals	A-per AG 01/04/24 ME Notes
NGL-01	01A-F	12/18/23	0945	S	6	X					X	X	X	X	X	A	some gravel in sample

Samples received at 3 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Zach Stephens	Haley & Aldrich	12/18/23	0945
Received by:	Michael Erdahl	F&B Inc	12/18/23	0945
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
Ph. (206) 285-8282

ATTACHMENT 2
Soil Disposal Certificate

ERI Provider: Clean Earth (877) 577-2669

CleanEarth

SHIPPING PAPER

Lading Manifest: 075610-24

	DELIVERY DATE / JOB # 5473538
SHIPPER / CUSTOMER: KENWORTH TRUCK R&D CENTER	POINT OF CONTACT: Bob Gurney
ADDRESS: 485 Houser Way North	PHONE #: (425)254-6092
CITY, STATE, ZIP: RENTON WA 98057	
CARRIER / TRANSPORTER: CLEAN EARTH SPECIALTY WASTE	PHONE #: (612)285-9865
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, LLC.	POINT OF CONTACT
ADDRESS: 20245 77th Avenue South	PHONE #: (253)872-8030
CITY, STATE, ZIP: KENT , WA 98032	

HM	US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	Containers No.	Containers Type	Total Quantity	UOI
A	MATERIAL NOT REGULATED BY D.O.T.	1	CM	25	Y
B					
C					
D					

Special Handling Instruction and Additional Information:

a) 1754103-02 - EXCAVATED SOILS & ROCKS (STRUCTURAL FILL - LFB01 (1)

Placards Provided YES_____ NO_____

SHIPPER'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classifie packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations I also certify that all times listed above are true and correct.

		MONTH	DAY	YEAR
(SHIPPER) PRINT OR TYPE NAME: X Mike Bush	SIGNATURE: X	2	13	2
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME: X Andy Taylor	SIGNATURE: X	2	13	2
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME: X	SIGNATURE: X			

SHIPPER

DATABAR (800) 878-4919 FORM # 4020 06/20