

Volume 4 of 6:
Appendix F (partial)
Appendices G through K

SUBMITTED TO:
PACCAR Inc

BY:
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FINAL COMPLIANCE MONITORING REPORT

Remedial Excavations

8801 EAST MARGINAL WAY S., TUKWILA, WASHINGTON
AGREED ORDER NO. 6069

Appendix F (partial)

Analytical Reports for Confirmation Soil Samples

CONTENTS

- Fremont Analytical, Work Order No. 2208314, August 24, 2022
- Fremont Analytical, Work Order No. 2208325, August 24, 2022
- Fremont Analytical, Work Order No. 2208415, August 24, 2022
- Fremont Analytical, Work Order No. 2208478, September 1, 2022



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Shannon & Wilson

Ryan Peterson
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: 8801 Excavations
Work Order Number: 2208314

August 24, 2022

Attention Ryan Peterson:

Fremont Analytical, Inc. received 28 sample(s) on 8/22/2022 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)

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,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com



CLIENT: Shannon & Wilson
Project: 8801 Excavations
Work Order: 2208314

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208314-001	A4-SIDE150:2	08/22/2022 7:30 AM	08/22/2022 3:35 PM
2208314-002	A4-SIDE150:6	08/22/2022 7:35 AM	08/22/2022 3:35 PM
2208314-003	A4-SIDE218:2	08/22/2022 10:00 AM	08/22/2022 3:35 PM
2208314-004	A4-BOT151:8	08/22/2022 8:00 AM	08/22/2022 3:35 PM
2208314-005	A4-SIDE152:2	08/22/2022 8:30 AM	08/22/2022 3:35 PM
2208314-006	A4-SIDE152:6	08/22/2022 8:35 AM	08/22/2022 3:35 PM
2208314-007	A4-SIDE153:2	08/22/2022 8:37 AM	08/22/2022 3:35 PM
2208314-008	A4-SIDE153:6	08/22/2022 8:40 AM	08/22/2022 3:35 PM
2208314-009	A4-SIDE154:2	08/22/2022 8:43 AM	08/22/2022 3:35 PM
2208314-010	A4-SIDE154:6	08/22/2022 8:46 AM	08/22/2022 3:35 PM
2208314-011	A4-BOT155:8	08/22/2022 9:35 AM	08/22/2022 3:35 PM
2208314-012	A4-BOT156:8	08/22/2022 9:40 AM	08/22/2022 3:35 PM
2208314-013	A4-BOT157:8	08/22/2022 10:57 AM	08/22/2022 3:35 PM
2208314-014	A4-BOT158:8	08/22/2022 11:23 AM	08/22/2022 3:35 PM
2208314-015	A4-BOT159:8	08/22/2022 11:43 AM	08/22/2022 3:35 PM
2208314-016	A4-BOT160:8	08/22/2022 11:46 AM	08/22/2022 3:35 PM
2208314-017	A4-SIDE161:2	08/22/2022 2:00 PM	08/22/2022 3:35 PM
2208314-018	A4-SIDE161:6	08/22/2022 2:02 PM	08/22/2022 3:35 PM
2208314-019	A4-SIDE162:2	08/22/2022 2:04 PM	08/22/2022 3:35 PM
2208314-020	A4-SIDE162:6	08/22/2022 2:05 PM	08/22/2022 3:35 PM
2208314-021	A4-SIDE163:2	08/22/2022 2:10 PM	08/22/2022 3:35 PM
2208314-022	A4-SIDE163:6	08/22/2022 2:11 PM	08/22/2022 3:35 PM
2208314-023	A4-SIDE164:2	08/22/2022 2:13 PM	08/22/2022 3:35 PM
2208314-024	A4-SIDE164:5	08/22/2022 2:14 PM	08/22/2022 3:35 PM
2208314-025	A4-BOT165:6	08/22/2022 2:15 PM	08/22/2022 3:35 PM
2208314-026	A4-BOT166:6	08/22/2022 2:17 PM	08/22/2022 3:35 PM
2208314-027	A4-SIDE167:2	08/22/2022 2:20 PM	08/22/2022 3:35 PM
2208314-028	A4-SIDE167:5	08/22/2022 2:21 PM	08/22/2022 3:35 PM

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

CLIENT: Shannon & Wilson

Project: 8801 Excavations

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.

9/7/2022: Revision 1 includes level 2B data.

Qualifiers:

- * - Associated LCS is outside of 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 Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Method Detection Limit
- R - High relative percent difference observed

Acronyms:

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



Client: Shannon & Wilson

Collection Date: 8/22/2022 7:30:00 AM

Project: 8801 Excavations

Lab ID: 2208314-001

Matrix: Soil

Client Sample ID: A4-SIDE150:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0392	0.00631		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1221	ND	0.0392	0.00631		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1232	ND	0.0392	0.00631		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1242	ND	0.0392	0.00631		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1248	ND	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1254	0.202	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1260	ND	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1262	ND	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Aroclor 1268	ND	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Total PCBs	0.202	0.0392	0.00778		mg/Kg-dry	1	08/23/22 10:52:26
Surr: Decachlorobiphenyl	72.0	9.77 - 154			%Rec	1	08/23/22 10:52:26
Surr: Tetrachloro-m-xylene	63.1	24.2 - 187			%Rec	1	08/23/22 10:52:26

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	10.8	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 7:35:00 AM

Project: 8801 Excavations

Lab ID: 2208314-002

Matrix: Soil

Client Sample ID: A4-SIDE150:6

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0428	0.00690		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1221	ND	0.0428	0.00690		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1232	ND	0.0428	0.00690		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1242	ND	0.0428	0.00690		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1248	ND	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1254	0.603	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1260	ND	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1262	ND	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Aroclor 1268	ND	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Total PCBs	0.603	0.0428	0.00851		mg/Kg-dry	1	08/23/22 11:02:09
Surr: Decachlorobiphenyl	83.0	9.77 - 154			%Rec	1	08/23/22 11:02:09
Surr: Tetrachloro-m-xylene	75.8	24.2 - 187			%Rec	1	08/23/22 11:02:09

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	10.6	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 10:00:00 AM

Project: 8801 Excavations

Lab ID: 2208314-003

Matrix: Soil

Client Sample ID: A4-SIDE218:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0404	0.00651		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1221	ND	0.0404	0.00651		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1232	ND	0.0404	0.00651		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1242	ND	0.0404	0.00651		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1248	ND	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1254	0.0987	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1260	ND	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1262	ND	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Aroclor 1268	ND	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Total PCBs	0.0987	0.0404	0.00803		mg/Kg-dry	1	08/23/22 11:11:51
Surr: Decachlorobiphenyl	77.3	9.77 - 154			%Rec	1	08/23/22 11:11:51
Surr: Tetrachloro-m-xylene	70.1	24.2 - 187			%Rec	1	08/23/22 11:11:51

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	10.2	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:00:00 AM

Project: 8801 Excavations

Lab ID: 2208314-004

Matrix: Soil

Client Sample ID: A4-BOT151:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0469	0.00756		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1221	ND	0.0469	0.00756		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1232	ND	0.0469	0.00756		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1242	ND	0.0469	0.00756		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1248	ND	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1254	0.209	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1260	ND	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1262	ND	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Aroclor 1268	ND	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Total PCBs	0.209	0.0469	0.00933		mg/Kg-dry	1	08/23/22 11:21:33
Surr: Decachlorobiphenyl	92.6	9.77 - 154			%Rec	1	08/23/22 11:21:33
Surr: Tetrachloro-m-xylene	86.2	24.2 - 187			%Rec	1	08/23/22 11:21:33

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	15.2	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:30:00 AM

Project: 8801 Excavations

Lab ID: 2208314-005

Matrix: Soil

Client Sample ID: A4-SIDE152:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0375	0.00604		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1221	ND	0.0375	0.00604		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1232	ND	0.0375	0.00604		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1242	ND	0.0375	0.00604		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1248	ND	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1254	0.143	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1260	ND	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1262	ND	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Aroclor 1268	ND	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Total PCBs	0.143	0.0375	0.00745		mg/Kg-dry	1	08/23/22 11:31:16
Surr: Decachlorobiphenyl	74.1	9.77 - 154			%Rec	1	08/23/22 11:31:16
Surr: Tetrachloro-m-xylene	60.0	24.2 - 187			%Rec	1	08/23/22 11:31:16

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	7.24	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:35:00 AM

Project: 8801 Excavations

Lab ID: 2208314-006

Matrix: Soil

Client Sample ID: A4-SIDE152:6

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0394	0.00635		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1221	ND	0.0394	0.00635		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1232	ND	0.0394	0.00635		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1242	ND	0.0394	0.00635		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1248	ND	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1254	0.551	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1260	ND	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1262	ND	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Aroclor 1268	ND	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Total PCBs	0.551	0.0394	0.00783		mg/Kg-dry	1	08/23/22 11:40:58
Surr: Decachlorobiphenyl	81.8	9.77 - 154			%Rec	1	08/23/22 11:40:58
Surr: Tetrachloro-m-xylene	67.8	24.2 - 187			%Rec	1	08/23/22 11:40:58

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	10.1	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:37:00 AM

Project: 8801 Excavations

Lab ID: 2208314-007

Matrix: Soil

Client Sample ID: A4-SIDE153:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0411	0.00663		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1221	ND	0.0411	0.00663		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1232	ND	0.0411	0.00663		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1242	ND	0.0411	0.00663		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1248	ND	0.0411	0.00818		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1254	0.0263	0.0411	0.00818	J	mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1260	ND	0.0411	0.00818		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1262	ND	0.0411	0.00818		mg/Kg-dry	1	08/23/22 11:50:41
Aroclor 1268	ND	0.0411	0.00818		mg/Kg-dry	1	08/23/22 11:50:41
Total PCBs	0.0263	0.0411	0.00818	J	mg/Kg-dry	1	08/23/22 11:50:41
Surr: Decachlorobiphenyl	47.7	9.77 - 154			%Rec	1	08/23/22 11:50:41
Surr: Tetrachloro-m-xylene	43.1	24.2 - 187			%Rec	1	08/23/22 11:50:41

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	7.81	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:40:00 AM

Project: 8801 Excavations

Lab ID: 2208314-008

Matrix: Soil

Client Sample ID: A4-SIDE153:6

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0403	0.00649		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1221	ND	0.0403	0.00649		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1232	ND	0.0403	0.00649		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1242	ND	0.0403	0.00649		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1248	ND	0.0403	0.00801		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1254	0.0309	0.0403	0.00801	J	mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1260	ND	0.0403	0.00801		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1262	ND	0.0403	0.00801		mg/Kg-dry	1	08/23/22 12:00:22
Aroclor 1268	ND	0.0403	0.00801		mg/Kg-dry	1	08/23/22 12:00:22
Total PCBs	0.0309	0.0403	0.00801	J	mg/Kg-dry	1	08/23/22 12:00:22
Surr: Decachlorobiphenyl	77.1	9.77 - 154			%Rec	1	08/23/22 12:00:22
Surr: Tetrachloro-m-xylene	72.3	24.2 - 187			%Rec	1	08/23/22 12:00:22

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	15.2	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 8:43:00 AM

Project: 8801 Excavations

Lab ID: 2208314-009

Matrix: Soil

Client Sample ID: A4-SIDE154:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0356	0.00574		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1221	ND	0.0356	0.00574		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1232	ND	0.0356	0.00574		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1242	ND	0.0356	0.00574		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1248	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1254	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1260	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1262	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Aroclor 1268	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Total PCBs	ND	0.0356	0.00708		mg/Kg-dry	1	08/23/22 12:10:05
Surr: Decachlorobiphenyl	42.0	9.77 - 154			%Rec	1	08/23/22 12:10:05
Surr: Tetrachloro-m-xylene	33.0	24.2 - 187			%Rec	1	08/23/22 12:10:05

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	5.79	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208314-010
Client Sample ID: A4-SIDE154:6

Collection Date: 8/22/2022 8:46:00 AM
Matrix: Soil

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
<u>Polychlorinated Biphenyls (PCB) by EPA 8082</u>				Batch ID: 37521		Analyst: OK	
Aroclor 1016	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1221	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1232	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1242	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1248	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1254	0.322	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1260	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1262	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Aroclor 1268	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Total PCBs	0.322	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:19:46
Surr: Decachlorobiphenyl	77.7	9.77 - 154			%Rec	1	08/23/22 12:19:46
Surr: Tetrachloro-m-xylene	81.2	24.2 - 187			%Rec	1	08/23/22 12:19:46
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R77712		Analyst: SK	
Percent Moisture	14.9	0.500	0.100		wt%	1	08/23/22 9:48:08



Client: Shannon & Wilson

Collection Date: 8/22/2022 9:35:00 AM

Project: 8801 Excavations

Lab ID: 2208314-011

Matrix: Soil

Client Sample ID: A4-BOT155:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1221	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1232	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1242	ND	0.0406	0.00655		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1248	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1254	0.333	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1260	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1262	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Aroclor 1268	ND	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Total PCBs	0.333	0.0406	0.00808		mg/Kg-dry	1	08/23/22 12:49:00
Surr: Decachlorobiphenyl	79.4	9.77 - 154			%Rec	1	08/23/22 12:49:00
Surr: Tetrachloro-m-xylene	78.7	24.2 - 187			%Rec	1	08/23/22 12:49:00

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	14.2	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 9:40:00 AM

Project: 8801 Excavations

Lab ID: 2208314-012

Matrix: Soil

Client Sample ID: A4-BOT156:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0445	0.00717		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1221	ND	0.0445	0.00717		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1232	ND	0.0445	0.00717		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1242	ND	0.0445	0.00717		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1248	ND	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1254	0.0990	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1260	ND	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1262	ND	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Aroclor 1268	ND	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Total PCBs	0.0990	0.0445	0.00884		mg/Kg-dry	1	08/23/22 12:58:44
Surr: Decachlorobiphenyl	93.2	9.77 - 154			%Rec	1	08/23/22 12:58:44
Surr: Tetrachloro-m-xylene	72.4	24.2 - 187			%Rec	1	08/23/22 12:58:44

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	23.7	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 10:57:00 AM

Project: 8801 Excavations

Lab ID: 2208314-013

Matrix: Soil

Client Sample ID: A4-BOT157:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0437	0.00704		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1221	ND	0.0437	0.00704		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1232	ND	0.0437	0.00704		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1242	ND	0.0437	0.00704		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1248	ND	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1254	0.114	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1260	ND	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1262	ND	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Aroclor 1268	ND	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Total PCBs	0.114	0.0437	0.00868		mg/Kg-dry	1	08/23/22 13:08:25
Surr: Decachlorobiphenyl	87.4	9.77 - 154			%Rec	1	08/23/22 13:08:25
Surr: Tetrachloro-m-xylene	80.5	24.2 - 187			%Rec	1	08/23/22 13:08:25

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	15.5	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 11:23:00 AM

Project: 8801 Excavations

Lab ID: 2208314-014

Matrix: Soil

Client Sample ID: A4-BOT158:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1221	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1232	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1242	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1248	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1254	0.0707	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1260	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1262	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Aroclor 1268	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Total PCBs	0.0707	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:18:11
Surr: Decachlorobiphenyl	92.3	9.77 - 154			%Rec	1	08/23/22 13:18:11
Surr: Tetrachloro-m-xylene	70.6	24.2 - 187			%Rec	1	08/23/22 13:18:11

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	16.6	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 11:43:00 AM

Project: 8801 Excavations

Lab ID: 2208314-015

Matrix: Soil

Client Sample ID: A4-BOT159:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0476	0.00766		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1221	ND	0.0476	0.00766		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1232	ND	0.0476	0.00766		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1242	ND	0.0476	0.00766		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1248	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1254	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1260	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1262	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Aroclor 1268	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Total PCBs	ND	0.0476	0.00946		mg/Kg-dry	1	08/23/22 13:27:50
Surr: Decachlorobiphenyl	87.3	9.77 - 154			%Rec	1	08/23/22 13:27:50
Surr: Tetrachloro-m-xylene	76.1	24.2 - 187			%Rec	1	08/23/22 13:27:50

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	26.6	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 11:46:00 AM

Project: 8801 Excavations

Lab ID: 2208314-016

Matrix: Soil

Client Sample ID: A4-BOT160:8

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1221	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1232	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1242	ND	0.0452	0.00728		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1248	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1254	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1260	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1262	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Aroclor 1268	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Total PCBs	ND	0.0452	0.00898		mg/Kg-dry	1	08/23/22 13:37:35
Surr: Decachlorobiphenyl	98.7	9.77 - 154			%Rec	1	08/23/22 13:37:35
Surr: Tetrachloro-m-xylene	73.9	24.2 - 187			%Rec	1	08/23/22 13:37:35

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	19.2	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:00:00 PM

Project: 8801 Excavations

Lab ID: 2208314-017

Matrix: Soil

Client Sample ID: A4-SIDE161:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1221	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1232	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1242	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1248	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1254	0.0110	0.0407	0.00809	J	mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1260	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1262	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 13:47:17
Aroclor 1268	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 13:47:17
Total PCBs	0.0110	0.0407	0.00809	J	mg/Kg-dry	1	08/23/22 13:47:17
Surr: Decachlorobiphenyl	109	9.77 - 154			%Rec	1	08/23/22 13:47:17
Surr: Tetrachloro-m-xylene	102	24.2 - 187			%Rec	1	08/23/22 13:47:17

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	12.1	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:02:00 PM

Project: 8801 Excavations

Lab ID: 2208314-018

Matrix: Soil

Client Sample ID: A4-SIDE161:6

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0396	0.00638		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1221	ND	0.0396	0.00638		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1232	ND	0.0396	0.00638		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1242	ND	0.0396	0.00638		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1248	ND	0.0396	0.00787		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1254	0.0199	0.0396	0.00787	J	mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1260	ND	0.0396	0.00787		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1262	ND	0.0396	0.00787		mg/Kg-dry	1	08/23/22 13:56:59
Aroclor 1268	ND	0.0396	0.00787		mg/Kg-dry	1	08/23/22 13:56:59
Total PCBs	0.0199	0.0396	0.00787	J	mg/Kg-dry	1	08/23/22 13:56:59
Surr: Decachlorobiphenyl	107	9.77 - 154			%Rec	1	08/23/22 13:56:59
Surr: Tetrachloro-m-xylene	110	24.2 - 187			%Rec	1	08/23/22 13:56:59

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	11.7	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:04:00 PM

Project: 8801 Excavations

Lab ID: 2208314-019

Matrix: Soil

Client Sample ID: A4-SIDE162:2

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0407	0.00657		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1221	ND	0.0407	0.00657		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1232	ND	0.0407	0.00657		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1242	ND	0.0407	0.00657		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1248	ND	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1254	0.191	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1260	ND	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1262	ND	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Aroclor 1268	ND	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Total PCBs	0.191	0.0407	0.00810		mg/Kg-dry	1	08/23/22 14:06:41
Surr: Decachlorobiphenyl	81.4	9.77 - 154			%Rec	1	08/23/22 14:06:41
Surr: Tetrachloro-m-xylene	64.9	24.2 - 187			%Rec	1	08/23/22 14:06:41

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	8.09	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:05:00 PM

Project: 8801 Excavations

Lab ID: 2208314-020

Matrix: Soil

Client Sample ID: A4-SIDE162:6

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

Batch ID: 37521

Analyst: OK

Aroclor 1016	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1221	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1232	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1242	ND	0.0407	0.00655		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1248	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1254	0.0546	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1260	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1262	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Aroclor 1268	ND	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Total PCBs	0.0546	0.0407	0.00809		mg/Kg-dry	1	08/23/22 14:16:24
Surr: Decachlorobiphenyl	107	9.77 - 154			%Rec	1	08/23/22 14:16:24
Surr: Tetrachloro-m-xylene	93.3	24.2 - 187			%Rec	1	08/23/22 14:16:24

Sample Moisture (Percent Moisture)

Batch ID: R77712

Analyst: SK

Percent Moisture	9.08	0.500	0.100		wt%	1	08/23/22 9:48:08
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:10:00 PM

Project: 8801 Excavations

Lab ID: 2208314-021

Matrix: Soil

Client Sample ID: A4-SIDE163:2

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0404	0.00652		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1221	ND	0.0404	0.00652		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1232	ND	0.0404	0.00652		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1242	ND	0.0404	0.00652		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1248	ND	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1254	0.329	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1260	ND	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1262	ND	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Aroclor 1268	ND	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Total PCBs	0.329	0.0404	0.00804		mg/Kg-dry	1	08/23/22 15:05:54
Surr: Decachlorobiphenyl	88.0	9.77 - 154			%Rec	1	08/23/22 15:05:54
Surr: Tetrachloro-m-xylene	81.3	24.2 - 187			%Rec	1	08/23/22 15:05:54

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	8.23	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:11:00 PM

Project: 8801 Excavations

Lab ID: 2208314-022

Matrix: Soil

Client Sample ID: A4-SIDE163:6

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0517	0.00833		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1221	ND	0.0517	0.00833		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1232	ND	0.0517	0.00833		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1242	ND	0.0517	0.00833		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1248	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1254	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1260	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1262	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Aroclor 1268	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Total PCBs	ND	0.0517	0.0103		mg/Kg-dry	1	08/23/22 15:35:08
Surr: Decachlorobiphenyl	95.5	9.77 - 154			%Rec	1	08/23/22 15:35:08
Surr: Tetrachloro-m-xylene	91.5	24.2 - 187			%Rec	1	08/23/22 15:35:08

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	22.3	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:13:00 PM

Project: 8801 Excavations

Lab ID: 2208314-023

Matrix: Soil

Client Sample ID: A4-SIDE164:2

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0480	0.00773		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1221	ND	0.0480	0.00773		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1232	ND	0.0480	0.00773		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1242	ND	0.0480	0.00773		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1248	ND	0.0480	0.00954		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1254	0.0390	0.0480	0.00954	J	mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1260	ND	0.0480	0.00954		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1262	ND	0.0480	0.00954		mg/Kg-dry	1	08/23/22 15:44:56
Aroclor 1268	ND	0.0480	0.00954		mg/Kg-dry	1	08/23/22 15:44:56
Total PCBs	0.0390	0.0480	0.00954	J	mg/Kg-dry	1	08/23/22 15:44:56
Surr: Decachlorobiphenyl	113	9.77 - 154			%Rec	1	08/23/22 15:44:56
Surr: Tetrachloro-m-xylene	85.6	24.2 - 187			%Rec	1	08/23/22 15:44:56

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	14.5	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:14:00 PM

Project: 8801 Excavations

Lab ID: 2208314-024

Matrix: Soil

Client Sample ID: A4-SIDE164:5

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0486	0.00783		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1221	ND	0.0486	0.00783		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1232	ND	0.0486	0.00783		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1242	ND	0.0486	0.00783		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1248	ND	0.0486	0.00966		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1254	0.0235	0.0486	0.00966	J	mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1260	ND	0.0486	0.00966		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1262	ND	0.0486	0.00966		mg/Kg-dry	1	08/23/22 15:54:40
Aroclor 1268	ND	0.0486	0.00966		mg/Kg-dry	1	08/23/22 15:54:40
Total PCBs	0.0235	0.0486	0.00966	J	mg/Kg-dry	1	08/23/22 15:54:40
Surr: Decachlorobiphenyl	99.0	9.77 - 154			%Rec	1	08/23/22 15:54:40
Surr: Tetrachloro-m-xylene	93.8	24.2 - 187			%Rec	1	08/23/22 15:54:40

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	18.4	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:15:00 PM

Project: 8801 Excavations

Lab ID: 2208314-025

Matrix: Soil

Client Sample ID: A4-BOT165:6

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0497	0.00801		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1221	ND	0.0497	0.00801		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1232	ND	0.0497	0.00801		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1242	ND	0.0497	0.00801		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1248	ND	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1254	0.0591	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1260	ND	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1262	ND	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Aroclor 1268	ND	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Total PCBs	0.0591	0.0497	0.00988		mg/Kg-dry	1	08/23/22 16:04:23
Surr: Decachlorobiphenyl	94.8	9.77 - 154			%Rec	1	08/23/22 16:04:23
Surr: Tetrachloro-m-xylene	72.4	24.2 - 187			%Rec	1	08/23/22 16:04:23

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	23.3	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:17:00 PM

Project: 8801 Excavations

Lab ID: 2208314-026

Matrix: Soil

Client Sample ID: A4-BOT166:6

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1221	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1232	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1242	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1248	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1254	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1260	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1262	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Aroclor 1268	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Total PCBs	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:14:06
Surr: Decachlorobiphenyl	90.8	9.77 - 154			%Rec	1	08/23/22 16:14:06
Surr: Tetrachloro-m-xylene	92.0	24.2 - 187			%Rec	1	08/23/22 16:14:06

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	25.6	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:20:00 PM

Project: 8801 Excavations

Lab ID: 2208314-027

Matrix: Soil

Client Sample ID: A4-SIDE167:2

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1221	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1232	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1242	ND	0.0467	0.00752		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1248	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1254	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1260	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1262	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Aroclor 1268	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Total PCBs	ND	0.0467	0.00928		mg/Kg-dry	1	08/23/22 16:23:49
Surr: Decachlorobiphenyl	91.5	9.77 - 154			%Rec	1	08/23/22 16:23:49
Surr: Tetrachloro-m-xylene	87.7	24.2 - 187			%Rec	1	08/23/22 16:23:49

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	15.2	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 2:21:00 PM

Project: 8801 Excavations

Lab ID: 2208314-028

Matrix: Soil

Client Sample ID: A4-SIDE167:5

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0412	0.00663		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1221	ND	0.0412	0.00663		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1232	ND	0.0412	0.00663		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1242	ND	0.0412	0.00663		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1248	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1254	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1260	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1262	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Aroclor 1268	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Total PCBs	ND	0.0412	0.00818		mg/Kg-dry	1	08/23/22 16:33:35
Surr: Decachlorobiphenyl	91.8	9.77 - 154			%Rec	1	08/23/22 16:33:35
Surr: Tetrachloro-m-xylene	90.3	24.2 - 187			%Rec	1	08/23/22 16:33:35

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	15.2	0.500	0.100		wt%	1	08/23/22 10:30:49
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Work Order: 2208314
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: PCB ICB	SampType: ICB	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICB	Batch ID: 37521				Analysis Date: 4/14/2022	SeqNo: 1540495					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	167		200.0		83.7	50.2	159				
Surr: Tetrachloro-m-xylene	179		200.0		89.4	60.3	134				

Sample ID: PCB ICV	SampType: ICV	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICV	Batch ID: 37521				Analysis Date: 4/14/2022	SeqNo: 1540496					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.991	0.0500	1.000	0	99.1	80	120				
Aroclor 1260	0.987	0.0500	1.000	0	98.7	80	120				
Surr: Decachlorobiphenyl	206		200.0		103	30.2	155				
Surr: Tetrachloro-m-xylene	196		200.0		98.2	58.8	143				

Sample ID: 1660-CCV-37521A	SampType: CCV	Units: mg/Kg			Prep Date: 8/23/2022	RunNo: 77729					
Client ID: CCV	Batch ID: 37521				Analysis Date: 8/23/2022	SeqNo: 1596872					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.10	0.0500	1.000	0	110	80	120				
Aroclor 1260	1.07	0.0500	1.000	0	107	80	120				
Surr: Decachlorobiphenyl	248		200.0		124	30.2	155				
Surr: Tetrachloro-m-xylene	203		200.0		102	58.8	143				

Work Order: 2208314
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-37521	SampType: MBLK	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77729							
Client ID: MBLKS	Batch ID: 37521	Analysis Date: 8/23/2022	SeqNo: 1596873								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	236		200.0		118	9.77	154				
Surr: Tetrachloro-m-xylene	197		200.0		98.4	24.2	187				

Sample ID: LCS-37521	SampType: LCS	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77729							
Client ID: LCSS	Batch ID: 37521	Analysis Date: 8/23/2022	SeqNo: 1596874								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.03	0.0500	1.000	0	103	75.7	162				
Aroclor 1260	0.929	0.0500	1.000	0	92.9	57.8	183				
Surr: Decachlorobiphenyl	231		200.0		116	9.77	154				
Surr: Tetrachloro-m-xylene	193		200.0		96.5	24.2	187				

Sample ID: 2208314-010AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/23/2022	RunNo: 77729							
Client ID: A4-SIDE154:6	Batch ID: 37521	Analysis Date: 8/23/2022	SeqNo: 1596885								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.635	0.0406	0.8126	0	78.2	55.6	188				
Aroclor 1260	0.763	0.0406	0.8126	0	93.9	54.5	178				
Surr: Decachlorobiphenyl	140		162.5		85.9	9.77	154				
Surr: Tetrachloro-m-xylene	111		162.5		68.5	24.2	187				

Work Order: 2208314
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2208314-010AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/23/2022	RunNo: 77729							
Client ID: A4-SIDE154:6	Batch ID: 37521	Analysis Date: 8/23/2022	SeqNo: 1596886								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.653	0.0404	0.8081	0	80.8	55.6	188	0.6351	2.84	30	
Aroclor 1260	0.773	0.0404	0.8081	0	95.7	54.5	178	0.7630	1.37	30	
Surr: Decachlorobiphenyl	154		161.6		95.1	9.77	154		0		
Surr: Tetrachloro-m-xylene	108		161.6		67.0	24.2	187		0		

Sample ID: 1660-CCV-37521B	SampType: CCV	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77729							
Client ID: CCV	Batch ID: 37521	Analysis Date: 8/23/2022	SeqNo: 1596897								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.984	0.0500	1.000	0	98.4	80	120				
Aroclor 1260	1.00	0.0500	1.000	0	100	80	120				
Surr: Decachlorobiphenyl	242		200.0		121	30.2	155				
Surr: Tetrachloro-m-xylene	181		200.0		90.7	58.8	143				

Sample ID: 1660-CCV-37522A	SampType: CCV	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77746							
Client ID: CCV	Batch ID: 37522	Analysis Date: 8/23/2022	SeqNo: 1597098								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.984	0.0500	1.000	0	98.4	80	120				
Aroclor 1260	1.00	0.0500	1.000	0	100	80	120				
Surr: Decachlorobiphenyl	242		200.0		121	30.2	155				
Surr: Tetrachloro-m-xylene	181		200.0		90.7	58.8	143				

Sample ID: MB-37522	SampType: MBLK	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77746							
Client ID: MBLKS	Batch ID: 37522	Analysis Date: 8/23/2022	SeqNo: 1597099								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									

Work Order: 2208314
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-37522	SampType: MBLK	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77746							
Client ID: MBLKS	Batch ID: 37522	Analysis Date: 8/23/2022	SeqNo: 1597099								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	240		200.0		120	9.77	154				
Surr: Tetrachloro-m-xylene	170		200.0		85.1	24.2	187				

Sample ID: LCS-37522	SampType: LCS	Units: mg/Kg	Prep Date: 8/23/2022	RunNo: 77746							
Client ID: LCSS	Batch ID: 37522	Analysis Date: 8/23/2022	SeqNo: 1597100								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.992	0.0500	1.000	0	99.2	75.7	162				
Aroclor 1260	0.873	0.0500	1.000	0	87.3	57.8	183				
Surr: Decachlorobiphenyl	194		200.0		97.1	9.77	154				
Surr: Tetrachloro-m-xylene	179		200.0		89.6	24.2	187				

Sample ID: 2208314-021AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/23/2022	RunNo: 77746							
Client ID: A4-SIDE163:2	Batch ID: 37522	Analysis Date: 8/23/2022	SeqNo: 1597102								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.780	0.0405	0.8108	0	96.3	55.6	188				
Aroclor 1260	0.766	0.0405	0.8108	0	94.5	54.5	178				
Surr: Decachlorobiphenyl	161		162.2		99.5	9.77	154				
Surr: Tetrachloro-m-xylene	130		162.2		80.4	24.2	187				

Work Order: 2208314
CLIENT: Shannon & Wilson
Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2208314-021AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/23/2022		RunNo: 77746			
Client ID: A4-SIDE163:2		Batch ID: 37522				Analysis Date: 8/23/2022		SeqNo: 1597103			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.870	0.0404	0.8084	0	108	55.6	188	0.7804	10.8	30	
Aroclor 1260	0.863	0.0404	0.8084	0	107	54.5	178	0.7658	11.9	30	
Surr: Decachlorobiphenyl	159		161.7		98.1	9.77	154		0		
Surr: Tetrachloro-m-xylene	147		161.7		90.7	24.2	187		0		

Sample ID: 1660-CCV-37522B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2022		RunNo: 77746			
Client ID: CCV		Batch ID: 37522				Analysis Date: 8/23/2022		SeqNo: 1597123			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.12	0.0500	1.000	0	112	80	120				
Aroclor 1260	1.17	0.0500	1.000	0	117	80	120				
Surr: Decachlorobiphenyl	286		200.0		143	30.2	155				
Surr: Tetrachloro-m-xylene	199		200.0		99.3	58.8	143				

Client Name: SW	Work Order Number: 2208314
Logged by: Clare Griggs	Date Received: 8/22/2022 3:35:00 PM

Chain of Custody

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

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 Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°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
Sample	5.6

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



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/22 Page: 1 of: 3
Laboratory Project No (Internal): 2208314
Special Remarks:

Project Name: 8801 Excavations
Project No: 103485
Collected by: Ryan Peterson
Location: Tukwila, WA
Report To (PM): Ryan Peterson
PM Email: Ryan.Peterson@shenwil.com
Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: Shannon & Wilson
Address: 400 N. 39th Street, Suite 100
City, State, Zip: Seattle, WA 98103
Telephone:
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Sample # of Cont.	Comments
1 A4-SIDE152:2	8/22/2022	0730	Soil	1	
2 A4-SIDE150:6		0735			
3 A4-SIDE218:2		1000			
4 A4-BOT151:8		0800			
5 A4-SIDE152:2		0830			
6 A4-SIDE152:6		0835			
7 A4-SIDE153:2		0837			
8 A4-SIDE153:6		0840			
9 A4-SIDE154:2		0843			
10 A4-SIDE154:6		0846			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTC-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite
 Turn-around Time: Standard Next Day 3 Day Same Day 2 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Ryan Peterson Date/Time 8/22/22 14:30 Print Name Edward Avenge
 Relinquished (Signature) Jessy Chen Date/Time 8/22/22 15:35 Print Name Jessy Chen



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/22 Page: 2 of: 3
Laboratory Project No (Internal): 2208314

Special Remarks:
Project Name: 8801 Excavations
Project No: 103485
Collected by: Ryan Peterson
Location: Tukwila, WA
Report To (PM): Ryan Peterson
PM Email: Ryan.peterson@shawwil.com
Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: Shannon & Wilson
Address: 400 N. 34th Street, Suite 100
City, State, Zip: Seattle, WA 98103
Telephone:
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Comments
1 A4-BOT155:8	8/24/22	0935	Soil	1	
2 A4-BOT156:8		0940			
3 A4-BOT157:8		1057			
4 A4-BOT158:8		1123			
5 A4-BOT159:8		1143			
6 A4-BOT160:8		1146			
7 A4-SIDE161:2		1403			
8 A4-SIDE161:6		1402			
9 A4-SIDE162:2		1404			
10 A4-SIDE162:6		1406			

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Ryan Peterson Date/Time 8/22/22 14:30
 Received (Signature) Edward Akeg's Date/Time 8/22/22 15:35

2208314

Analyze for PCBs

8/22/22	1410
1411	
1413	
1414	
1415	
1417	
(1420	
(1421	

A4-SIDE163:2
 A4-SIDE163:6
 A4-SIDE164:2
 A4-SIDE164:5
 A4-BOT165:6
 A4-BOT166:6
 A4-SIDE167:2
 A4-SIDE167:5

1 day TAT



Atkins Edward Avenue 8/22/23 14:20

~~RYAN PETERSON~~ 8/22/22 1430

Yeyi Chen 8/22/22 15:35

DATA SET for Review - Deliverable Requirements

Polychlorinated Biphenyls (PCB) by EPA 8082

Fremont Analytical Work Order No. 2208314

Shannon & Wilson

Project Name: 8801- Excavations

This Data contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-25\Data\220413\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041305.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:39 pm
2) 041306.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:54 pm
3) 041307.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:04 pm
4) 041308.D 1254	PCB_GC25_PEST_190228.M	7	1.000	14 Apr 2022 04:14 pm
5) 041309.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:23 pm
6) 041310.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:33 pm
7) 041311.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:43 pm
8) 041312.D PCB 8	PCB_GC25_PEST_190228.M	101	1.000	14 Apr 2022 04:53 pm
9) 041313.D PCB 20	PCB_GC25_PEST_190228.M	102	1.000	14 Apr 2022 05:03 pm
10) 041314.D PCB 50	PCB_GC25_PEST_190228.M	103	1.000	14 Apr 2022 05:13 pm
11) 041315.D PCB 100	PCB_GC25_PEST_190228.M	104	1.000	14 Apr 2022 05:22 pm
12) 041316.D PCB 200	PCB_GC25_PEST_190228.M	105	1.000	14 Apr 2022 05:32 pm
13) 041317.D PCB 500	PCB_GC25_PEST_190228.M	106	1.000	14 Apr 2022 05:42 pm
14) 041318.D PCB 1000	PCB_GC25_PEST_190228.M	107	1.000	14 Apr 2022 05:52 pm
15) 041319.D PCB 2000	PCB_GC25_PEST_190228.M	108	1.000	14 Apr 2022 06:01 pm
16) 041320.D PCB ICB	PCB_GC25_PEST_190228.M	109	1.000	14 Apr 2022 06:11 pm
17) 041321.D PCB ICV	PCB_GC25_PEST_190228.M	110	1.000	14 Apr 2022 06:21 pm
18) 041322.D PCB 1221	PCB_GC25_PEST_190228.M	111	1.000	14 Apr 2022 06:31 pm
19) 041323.D PCB 1232	PCB_GC25_PEST_190228.M	112	1.000	14 Apr 2022 06:41 pm
20) 041324.D PCB 1242	PCB_GC25_PEST_190228.M	113	1.000	14 Apr 2022 06:50 pm
21) 041325.D PCB 1248	PCB_GC25_PEST_190228.M	114	1.000	14 Apr 2022 07:00 pm

22)	041326.D	PCB_GC25_PEST_190228.M					
PCB 1254			115	1.000	14 Apr 2022	07:10 pm	

23)	041327.D	PCB_GC25_PEST_190228.M					
PCB 1262			116	1.000	14 Apr 2022	07:20 pm	

24)	041328.D	PCB_GC25_PEST_190228.M					
PCB 1268			117	1.000	14 Apr 2022	07:30 pm	

25)	042902.D	PCB_GC25_PEST_190228.M					
1660			150	1.000	29 Apr 2022	08:57 am	

Data Directory: D:\GC-25\Data\220823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082329.D No data found	PCB_GC25_PEST_190228.M		0.000	N/A
2) 082301.D CO	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:24 am
3) 082302.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:34 am
4) 082303.D MB-37521	PCB_GC25_PEST_190228.M	11	1.000	23 Aug 2022 10:33 am
5) 082304.D LCS-37521	PCB_GC25_PEST_190228.M	12	1.000	23 Aug 2022 10:42 am
6) 082305.D 2208314-001A	PCB_GC25_PEST_190228.M	13	1.000	23 Aug 2022 10:52 am
7) 082306.D 2208314-002A	PCB_GC25_PEST_190228.M	14	1.000	23 Aug 2022 11:02 am
8) 082307.D 2208314-003A	PCB_GC25_PEST_190228.M	15	1.000	23 Aug 2022 11:11 am
9) 082308.D 2208314-004A	PCB_GC25_PEST_190228.M	16	1.000	23 Aug 2022 11:21 am
10) 082309.D 2208314-005A	PCB_GC25_PEST_190228.M	17	1.000	23 Aug 2022 11:31 am
11) 082310.D 2208314-006A	PCB_GC25_PEST_190228.M	18	1.000	23 Aug 2022 11:40 am
12) 082311.D 2208314-007A	PCB_GC25_PEST_190228.M	19	1.000	23 Aug 2022 11:50 am
13) 082312.D 2208314-008A	PCB_GC25_PEST_190228.M	20	1.000	23 Aug 2022 12:00 pm
14) 082313.D 2208314-009A	PCB_GC25_PEST_190228.M	21	1.000	23 Aug 2022 12:10 pm
15) 082314.D 2208314-010A	PCB_GC25_PEST_190228.M	22	1.000	23 Aug 2022 12:19 pm
16) 082315.D 2208314-010AMS	PCB_GC25_PEST_190228.M	23	1.000	23 Aug 2022 12:29 pm
17) 082316.D 2208314-010AMSD	PCB_GC25_PEST_190228.M	24	1.000	23 Aug 2022 12:39 pm
18) 082317.D 2208314-011A	PCB_GC25_PEST_190228.M	25	1.000	23 Aug 2022 12:48 pm
19) 082318.D 2208314-012A	PCB_GC25_PEST_190228.M	26	1.000	23 Aug 2022 12:58 pm
20) 082319.D 2208314-013A	PCB_GC25_PEST_190228.M	27	1.000	23 Aug 2022 01:08 pm
21) 082320.D 2208314-014A	PCB_GC25_PEST_190228.M	28	1.000	23 Aug 2022 01:18 pm

22) 082321.D	PCB_GC25_PEST_190228.M	29	1.000	23 Aug 2022	01:27 pm
2208314-015A					
23) 082322.D	PCB_GC25_PEST_190228.M	30	1.000	23 Aug 2022	01:37 pm
2208314-016A					
24) 082323.D	PCB_GC25_PEST_190228.M	31	1.000	23 Aug 2022	01:47 pm
2208314-017A					
25) 082324.D	PCB_GC25_PEST_190228.M	32	1.000	23 Aug 2022	01:56 pm
2208314-018A					
26) 082325.D	PCB_GC25_PEST_190228.M	33	1.000	23 Aug 2022	02:06 pm
2208314-019A					
27) 082326.D	PCB_GC25_PEST_190228.M	34	1.000	23 Aug 2022	02:16 pm
2208314-020A					
28) 082327.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:26 pm
CO					
29) 082328.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:36 pm
1660-CCV-tfm					

Data Directory: D:\GC-25\Data\220823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041322.D PCB 1221	PCB_GC25_PEST_190228.M	111	1.000	14 Apr 2022 06:31 pm
2) 041323.D PCB 1232	PCB_GC25_PEST_190228.M	112	1.000	14 Apr 2022 06:41 pm
3) 041324.D PCB 1242	PCB_GC25_PEST_190228.M	113	1.000	14 Apr 2022 06:50 pm
4) 041325.D PCB 1248	PCB_GC25_PEST_190228.M	114	1.000	14 Apr 2022 07:00 pm
5) 041326.D PCB 1254	PCB_GC25_PEST_190228.M	115	1.000	14 Apr 2022 07:10 pm
6) 041327.D PCB 1262	PCB_GC25_PEST_190228.M	116	1.000	14 Apr 2022 07:20 pm
7) 041328.D PCB 1268	PCB_GC25_PEST_190228.M	117	1.000	14 Apr 2022 07:30 pm
8) 082301.D CO	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:24 am
9) 082302.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:34 am
10) 082303.D MB-37521	PCB_GC25_PEST_190228.M	11	1.000	23 Aug 2022 10:33 am
11) 082304.D LCS-37521	PCB_GC25_PEST_190228.M	12	1.000	23 Aug 2022 10:42 am
12) 082305.D 2208314-001A	PCB_GC25_PEST_190228.M	13	1.000	23 Aug 2022 10:52 am
13) 082306.D 2208314-002A	PCB_GC25_PEST_190228.M	14	1.000	23 Aug 2022 11:02 am
14) 082307.D 2208314-003A	PCB_GC25_PEST_190228.M	15	1.000	23 Aug 2022 11:11 am
15) 082308.D 2208314-004A	PCB_GC25_PEST_190228.M	16	1.000	23 Aug 2022 11:21 am
16) 082309.D 2208314-005A	PCB_GC25_PEST_190228.M	17	1.000	23 Aug 2022 11:31 am
17) 082310.D 2208314-006A	PCB_GC25_PEST_190228.M	18	1.000	23 Aug 2022 11:40 am
18) 082311.D 2208314-007A	PCB_GC25_PEST_190228.M	19	1.000	23 Aug 2022 11:50 am
19) 082312.D 2208314-008A	PCB_GC25_PEST_190228.M	20	1.000	23 Aug 2022 12:00 pm
20) 082313.D 2208314-009A	PCB_GC25_PEST_190228.M	21	1.000	23 Aug 2022 12:10 pm
21) 082314.D 2208314-010A	PCB_GC25_PEST_190228.M	22	1.000	23 Aug 2022 12:19 pm

22) 082315.D	PCB_GC25_PEST_190228.M	23	1.000	23 Aug 2022	12:29	pm
2208314-010AMS						
23) 082316.D	PCB_GC25_PEST_190228.M	24	1.000	23 Aug 2022	12:39	pm
2208314-010AMSD						
24) 082317.D	PCB_GC25_PEST_190228.M	25	1.000	23 Aug 2022	12:48	pm
2208314-011A						
25) 082318.D	PCB_GC25_PEST_190228.M	26	1.000	23 Aug 2022	12:58	pm
2208314-012A						
26) 082319.D	PCB_GC25_PEST_190228.M	27	1.000	23 Aug 2022	01:08	pm
2208314-013A						
27) 082320.D	PCB_GC25_PEST_190228.M	28	1.000	23 Aug 2022	01:18	pm
2208314-014A						
28) 082321.D	PCB_GC25_PEST_190228.M	29	1.000	23 Aug 2022	01:27	pm
2208314-015A						
29) 082322.D	PCB_GC25_PEST_190228.M	30	1.000	23 Aug 2022	01:37	pm
2208314-016A						
30) 082323.D	PCB_GC25_PEST_190228.M	31	1.000	23 Aug 2022	01:47	pm
2208314-017A						
31) 082324.D	PCB_GC25_PEST_190228.M	32	1.000	23 Aug 2022	01:56	pm
2208314-018A						
32) 082325.D	PCB_GC25_PEST_190228.M	33	1.000	23 Aug 2022	02:06	pm
2208314-019A						
33) 082326.D	PCB_GC25_PEST_190228.M	34	1.000	23 Aug 2022	02:16	pm
2208314-020A						
34) 082327.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:26	pm
CO						
35) 082328.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:36	pm
1660-CCV-tfm						
36) 082329.D	PCB_GC25_PEST_190228.M	37	1.000	23 Aug 2022	02:46	pm
MB-37522						
37) 082330.D	PCB_GC25_PEST_190228.M	38	1.000	23 Aug 2022	02:56	pm
LCS-37522						
38) 082331.D	PCB_GC25_PEST_190228.M	39	1.000	23 Aug 2022	03:05	pm
2208314-021A						
39) 082332.D	PCB_GC25_PEST_190228.M	40	1.000	23 Aug 2022	03:15	pm
2208314-021AMS						
40) 082333.D	PCB_GC25_PEST_190228.M	41	1.000	23 Aug 2022	03:25	pm
2208314-021AMSD						
41) 082334.D	PCB_GC25_PEST_190228.M	42	1.000	23 Aug 2022	03:35	pm
2208314-022A						
42) 082335.D	PCB_GC25_PEST_190228.M	43	1.000	23 Aug 2022	03:44	pm
2208314-023A						
43) 082336.D	PCB_GC25_PEST_190228.M	44	1.000	23 Aug 2022	03:54	pm
2208314-024A						
44) 082337.D	PCB_GC25_PEST_190228.M	45	1.000	23 Aug 2022	04:04	pm
2208314-025A						
45) 082338.D	PCB_GC25_PEST_190228.M					

2208314-026A		46	1.000	23 Aug 2022	04:14	pm
46) 082339.D	PCB_GC25_PEST_190228.M					
2208314-027A		47	1.000	23 Aug 2022	04:23	pm
47) 082340.D	PCB_GC25_PEST_190228.M					
2208314-028A		48	1.000	23 Aug 2022	04:33	pm
48) 082341.D	PCB_GC25_PEST_190228.M					
2208325-001A		49	1.000	23 Aug 2022	04:43	pm
49) 082342.D	PCB_GC25_PEST_190228.M					
2208325-002A		50	1.000	23 Aug 2022	04:53	pm
50) 082343.D	PCB_GC25_PEST_190228.M					
2208325-003A		51	1.000	23 Aug 2022	05:02	pm
51) 082344.D	PCB_GC25_PEST_190228.M					
2208325-004A		52	1.000	23 Aug 2022	05:12	pm
52) 082345.D	PCB_GC25_PEST_190228.M					
2208325-005A		53	1.000	23 Aug 2022	05:22	pm
53) 082346.D	PCB_GC25_PEST_190228.M					
2208320-001A		54	1.000	23 Aug 2022	05:32	pm
54) 082347.D	PCB_GC25_PEST_190228.M					
2208320-002A		55	1.000	23 Aug 2022	05:41	pm
55) 082348.D	PCB_GC25_PEST_190228.M					
2208320-003A		56	1.000	23 Aug 2022	05:51	pm
56) 082349.D	PCB_GC25_PEST_190228.M					
2208320-004A		57	1.000	23 Aug 2022	06:01	pm
57) 082350.D	PCB_GC25_PEST_190228.M					
2208320-005A		58	1.000	23 Aug 2022	06:10	pm
58) 082351.D	PCB_GC25_PEST_190228.M					
2208321-001A		59	1.000	23 Aug 2022	06:20	pm
59) 082352.D	PCB_GC25_PEST_190228.M					
2208321-002A		60	1.000	23 Aug 2022	06:30	pm
60) 082353.D	PCB_GC25_PEST_190228.M					
MB-37511		61	1.000	23 Aug 2022	06:40	pm
61) 082354.D	PCB_GC25_PEST_190228.M					
LCS-LL-37511		62	1.000	23 Aug 2022	06:49	pm
62) 082355.D	PCB_GC25_PEST_190228.M					
LCS-37511		63	1.000	23 Aug 2022	06:59	pm
63) 082356.D	PCB_GC25_PEST_190228.M					
LCSD-37511		64	1.000	23 Aug 2022	07:09	pm
64) 082357.D	PCB_GC25_PEST_190228.M					
2208281-002D		65	1.000	23 Aug 2022	07:19	pm
65) 082358.D	PCB_GC25_PEST_190228.M					
2208281-003D		66	1.000	23 Aug 2022	07:28	pm
66) 082359.D	PCB_GC25_PEST_190228.M					
2208281-004D		67	1.000	23 Aug 2022	07:38	pm
67) 082360.D	PCB_GC25_PEST_190228.M					
2208281-005D		68	1.000	23 Aug 2022	07:48	pm
68) 082361.D	PCB_GC25_PEST_190228.M					
2208300-001A		69	1.000	23 Aug 2022	07:58	pm

69) 082362.D	PCB_GC25_PEST_190228.M	70	1.000	23 Aug 2022	08:07 pm
2208300-003A					
70) 082363.D	PCB_GC25_PEST_190228.M	71	1.000	23 Aug 2022	08:17 pm
2208300-003AMS					
71) 082364.D	PCB_GC25_PEST_190228.M	72	1.000	23 Aug 2022	08:27 pm
2208301-001A					
72) 082365.D	PCB_GC25_PEST_190228.M	73	1.000	23 Aug 2022	08:37 pm
2208301-002A					
73) 082366.D	PCB_GC25_PEST_190228.M	74	1.000	23 Aug 2022	08:46 pm
2208301-003A					
74) 082367.D	PCB_GC25_PEST_190228.M	75	1.000	23 Aug 2022	08:56 pm
2208288-001B					
75) 082368.D	PCB_GC25_PEST_190228.M	76	1.000	23 Aug 2022	09:06 pm
2208288-002B					
76) 082369.D	PCB_GC25_PEST_190228.M	77	1.000	23 Aug 2022	09:16 pm
2208288-003B					
77) 082370.D	PCB_GC25_PEST_190228.M	78	1.000	23 Aug 2022	09:25 pm
2208288-004B					
78) 082371.D	PCB_GC25_PEST_190228.M	79	1.000	23 Aug 2022	09:35 pm
2208288-005B					
79) 082372.D	PCB_GC25_PEST_190228.M	80	1.000	23 Aug 2022	09:45 pm
2208288-006B					
80) 082373.D	PCB_GC25_PEST_190228.M	81	1.000	23 Aug 2022	09:55 pm
2208288-007B					
81) 082374.D	PCB_GC25_PEST_190228.M	82	1.000	23 Aug 2022	10:04 pm
2208288-008B					
82) 082375.D	PCB_GC25_PEST_190228.M	83	1.000	23 Aug 2022	10:14 pm
2208288-009B					
83) 082376.D	PCB_GC25_PEST_190228.M	84	1.000	23 Aug 2022	10:24 pm
2208288-010B					
84) 082377.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:34 pm
CO					
85) 082378.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:43 pm
CO					
86) 082379.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:53 pm
1660-CCV-tfm					
87) 082404.D	PCB_GC25_PEST_190228.M	6	1.000	24 Aug 2022	08:45 am
1660-CCV-tfm					
88) 082405.D	PCB_GC25_PEST_190228.M	59	1.000	24 Aug 2022	08:55 am
2208321-001A 100X					
89) 082406.D	PCB_GC25_PEST_190228.M	85	1.000	24 Aug 2022	09:06 am
2208321-001A 100X					
90) 082408.D	PCB_GC25_PEST_190228.M	86	1.000	24 Aug 2022	09:26 am
2208321-001A 200X					
91) 082410.D	PCB_GC25_PEST_190228.M	6	1.000	24 Aug 2022	09:46 am
1660-CCV-tfm					



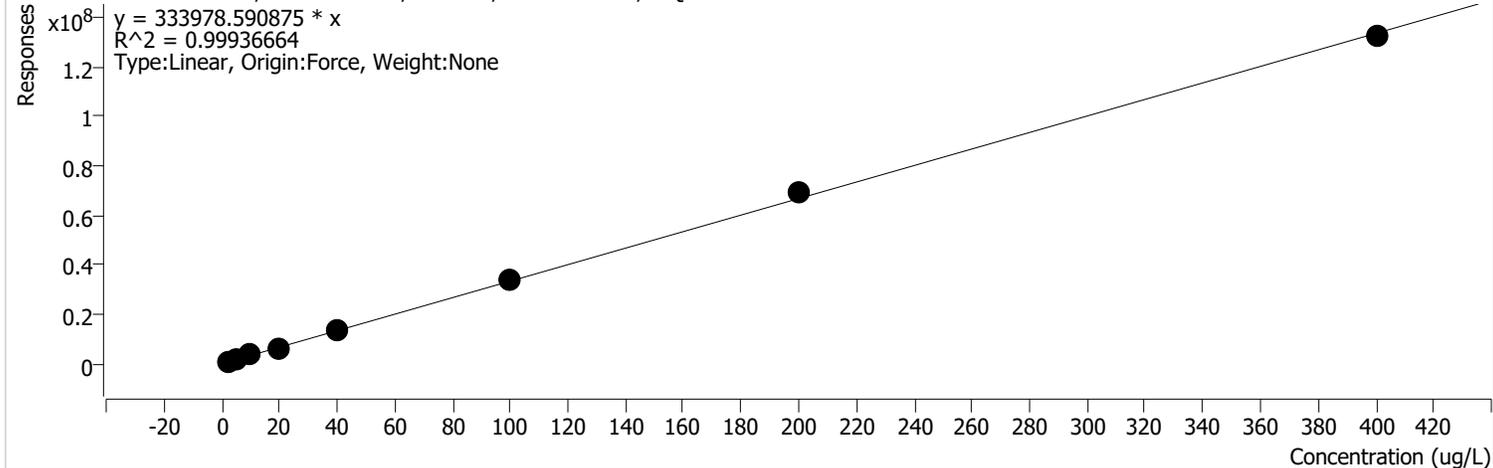
Calibration

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:33 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX 2 %RSE =

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



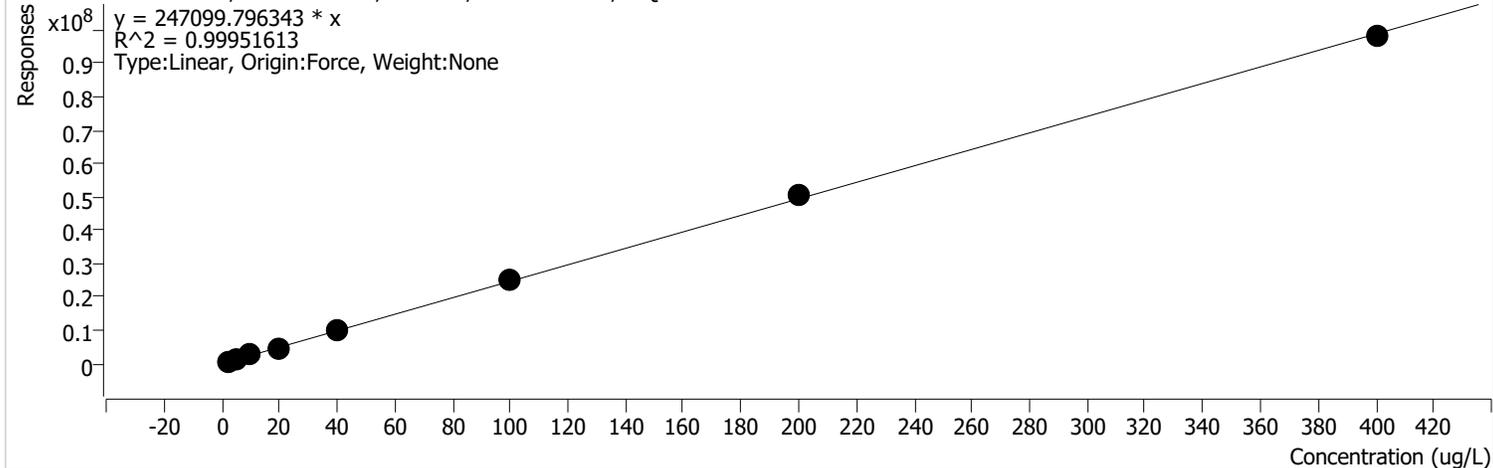
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	1479594	5.0000	295918.7555	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	4013955	10.0000	401395.5101	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5800560	20.0000	290027.9938	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13242000	40.0000	331050.0118	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34407320	100.0000	344073.2038	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69115366	200.0000	345576.8289	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132219389	400.0000	330548.4713	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE =

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

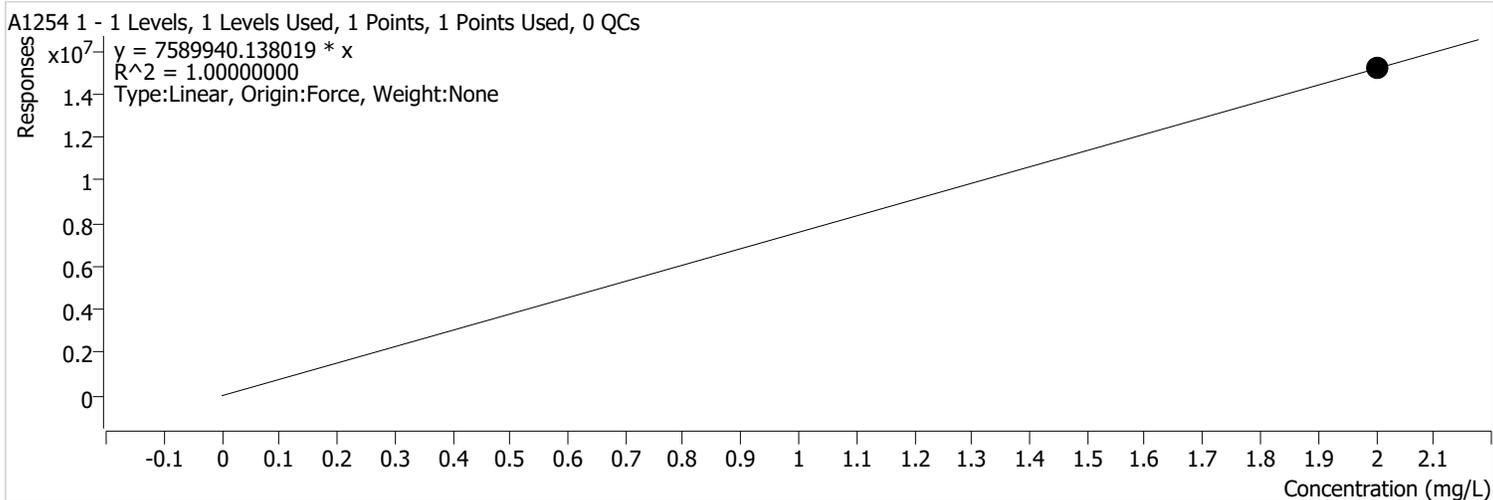


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	1097830	5.0000	219566.0 924	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2963908	10.0000	296390.7 661	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4267578	20.0000	213378.9 026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9689080	40.0000	242226.9 948	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25213582	100.0000	252135.8 231	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50933338	200.0000	254666.6 921	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97999220	400.0000	244998.0 505	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 %RSE =



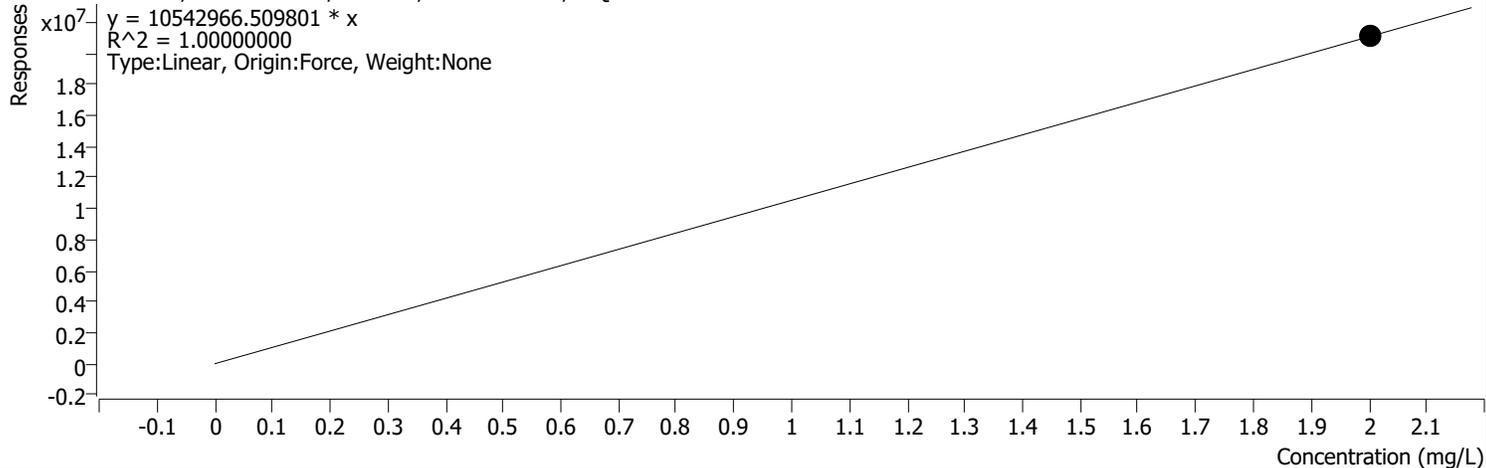
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	15179880	2.0000	7589940.1380	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 %RSE =

A1254 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



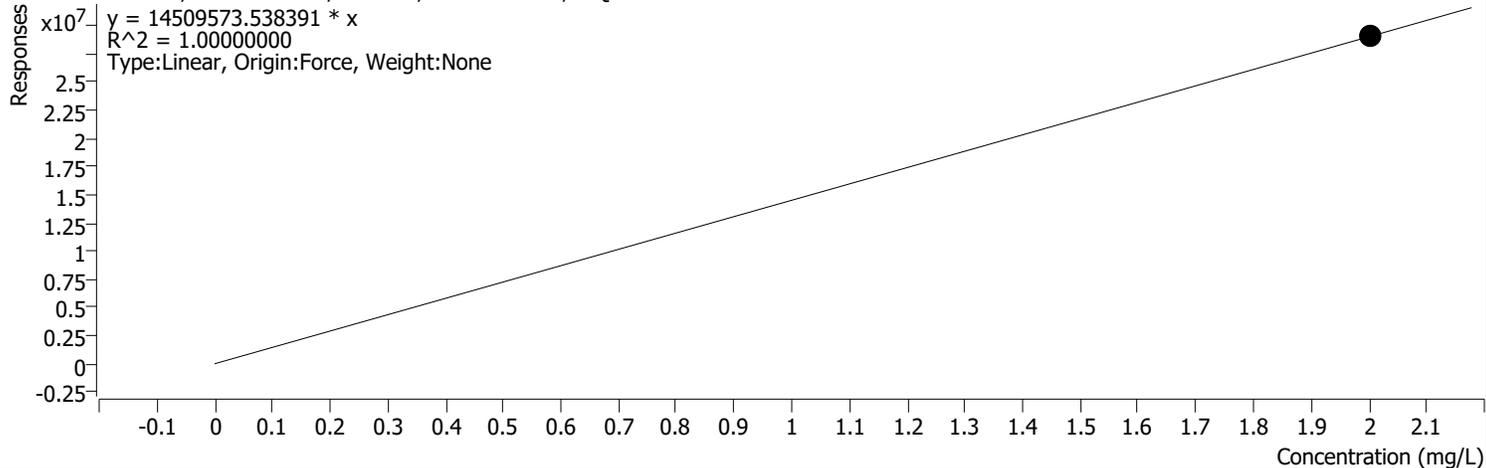
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	21085933	2.0000	10542966.5098	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 %RSE =

A1254 3 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



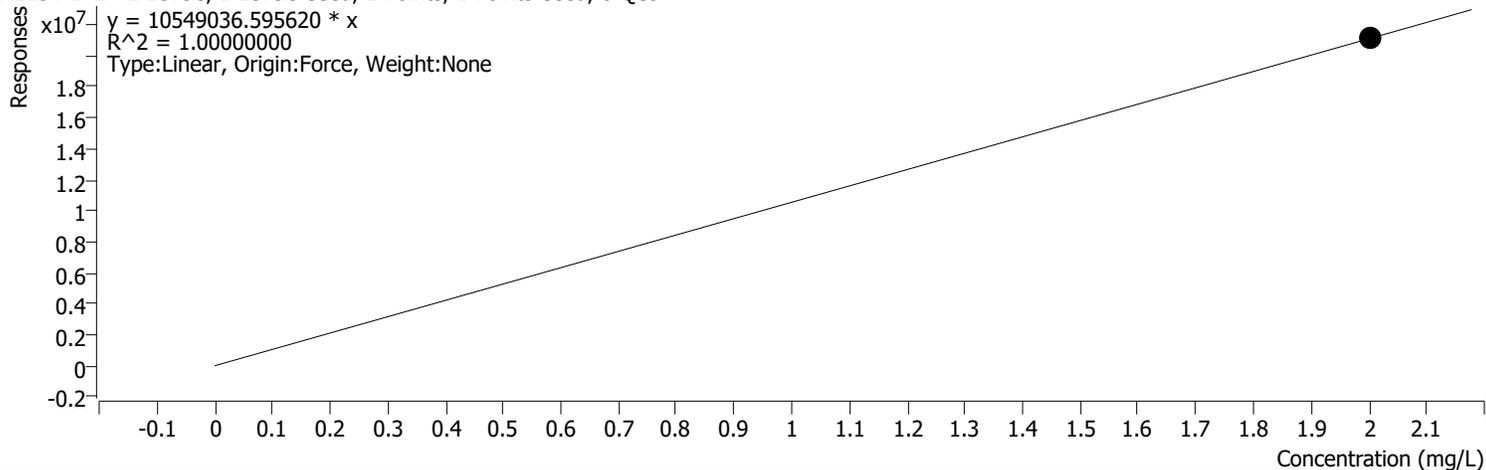
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	29019147	2.0000	14509573.5384	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 2 %RSE =

A1254 1 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



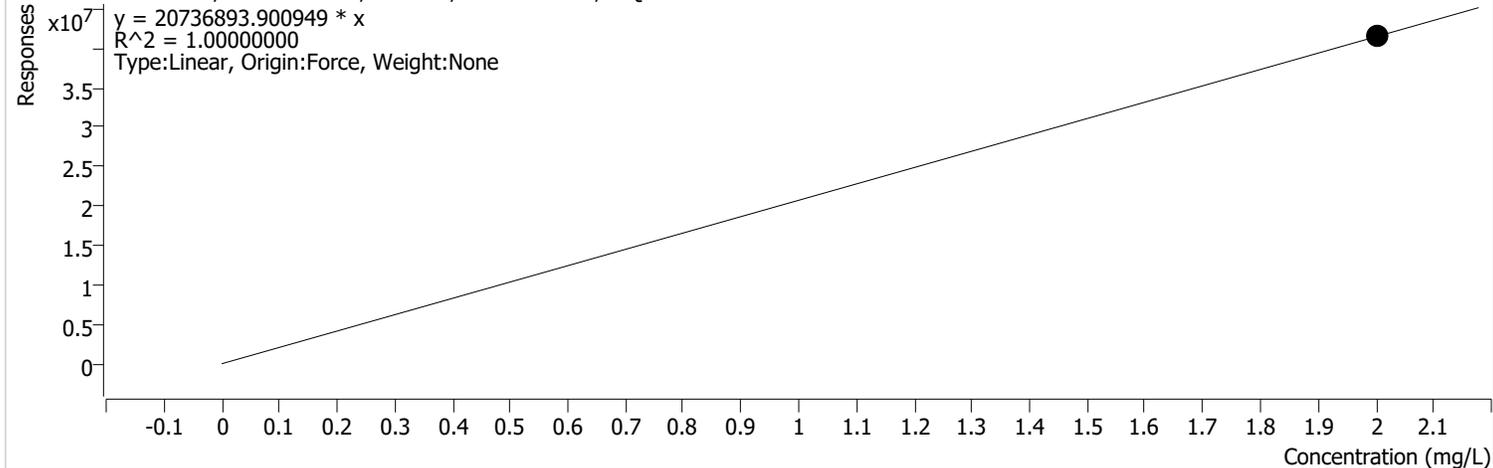
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1254 2 2 %RSE =

A1254 2 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



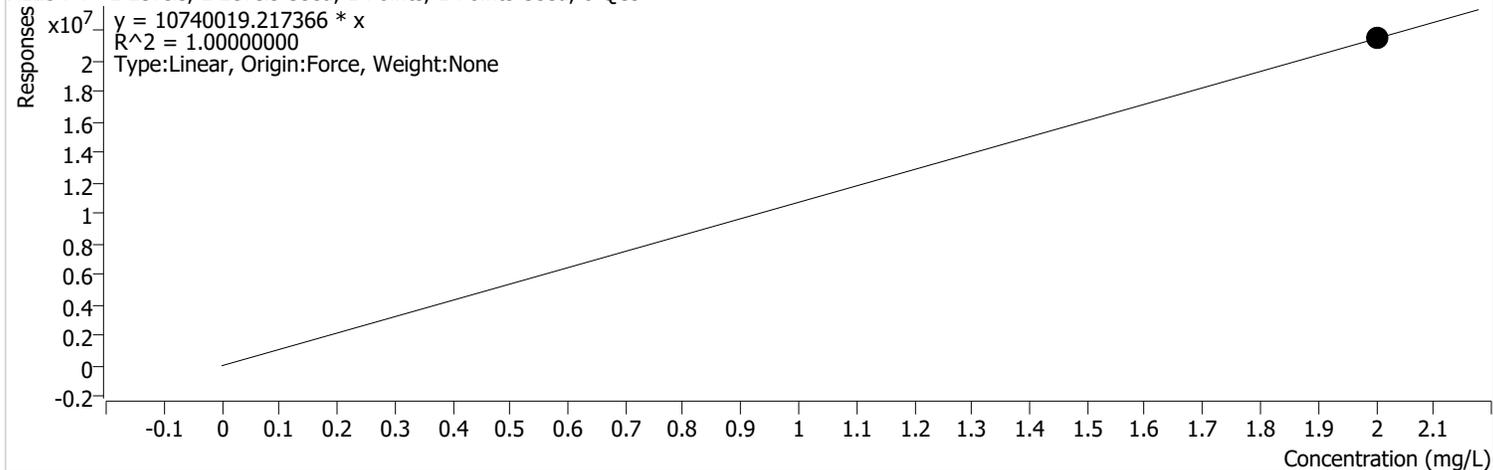
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 %RSE =

A1254 4 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

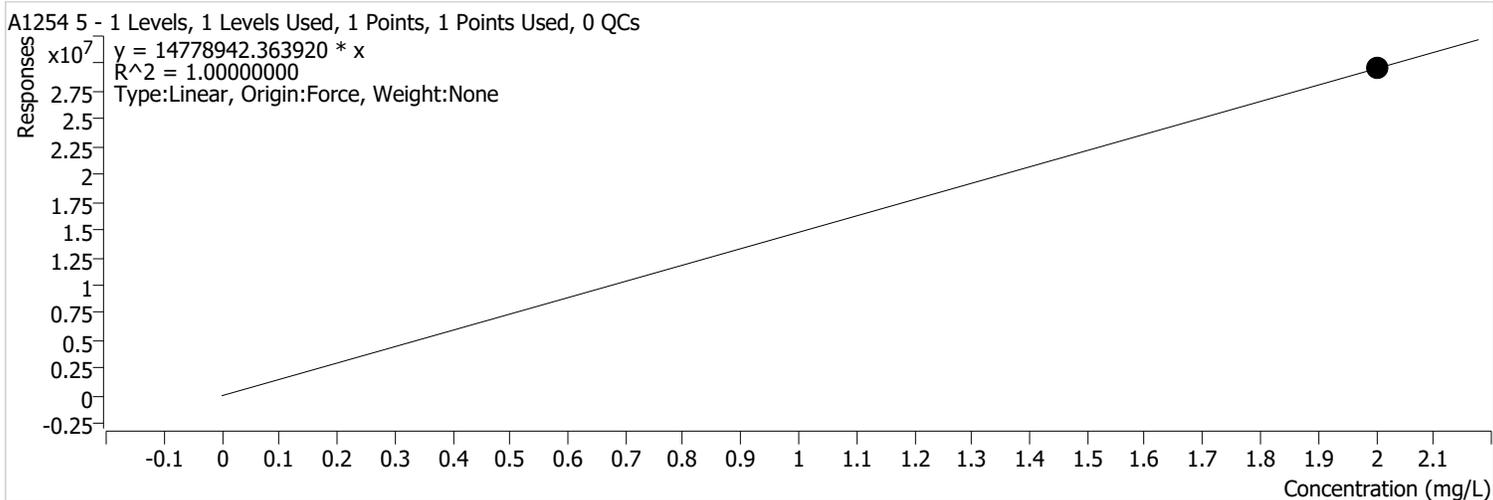


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	21480038	2.0000	10740019.2174	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 %RSE =



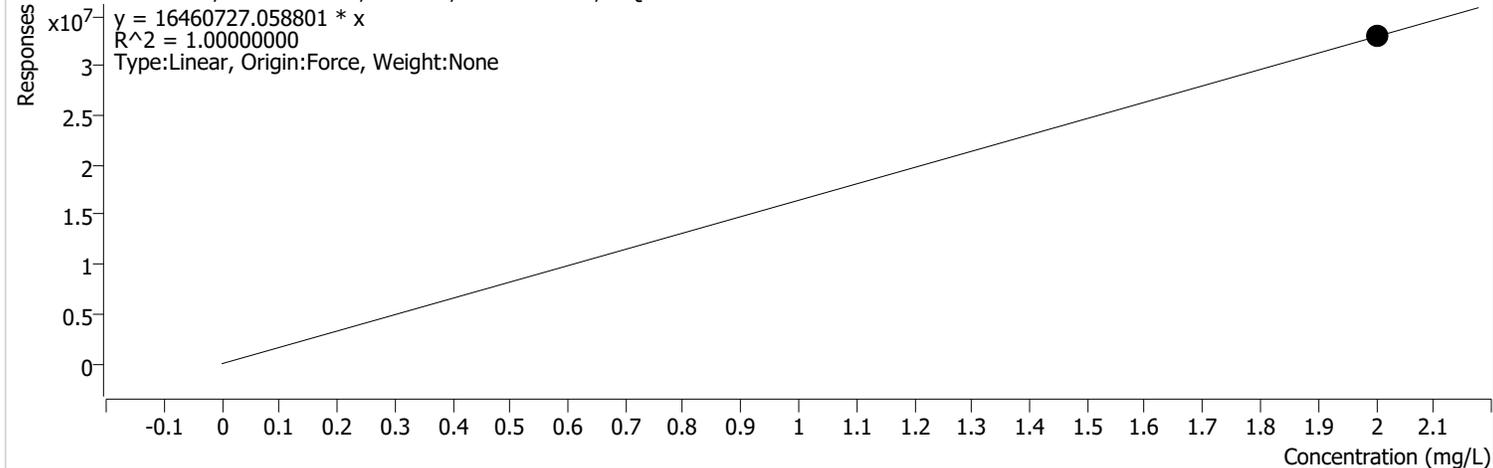
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	29557885	2.0000	14778942.3639	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 2 %RSE =

A1254 3 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



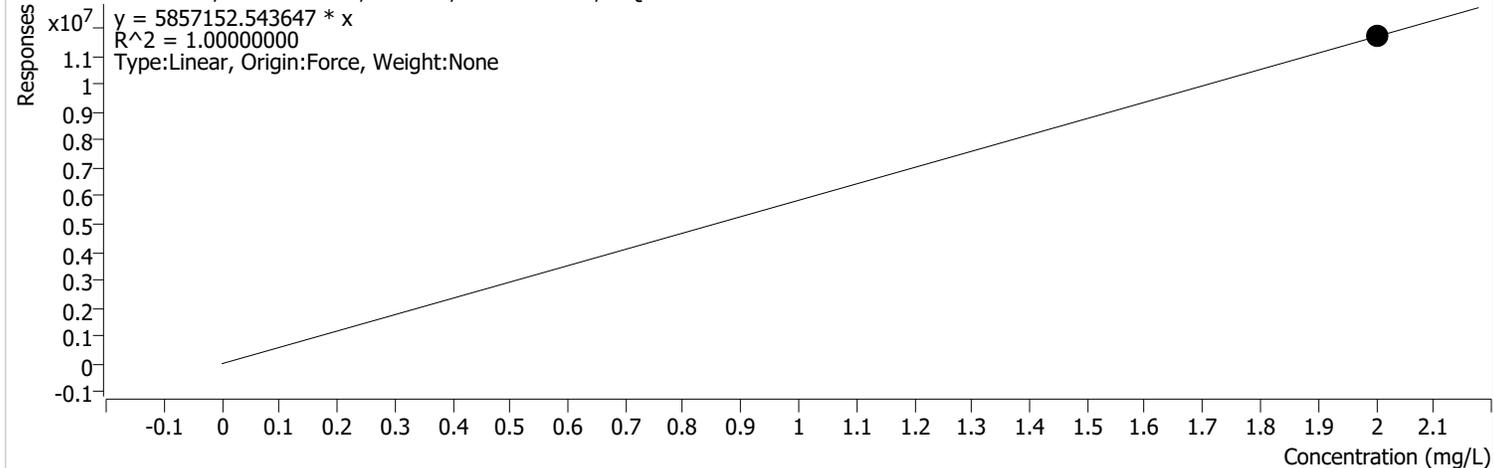
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 2 %RSE =

A1254 4 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

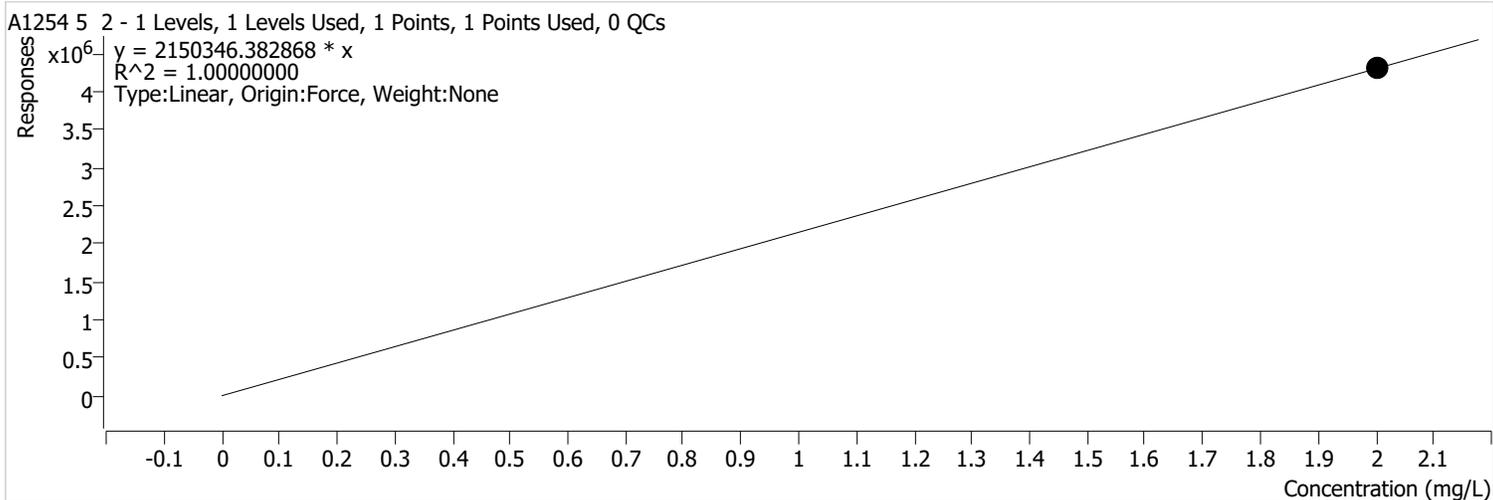


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 2 %RSE =



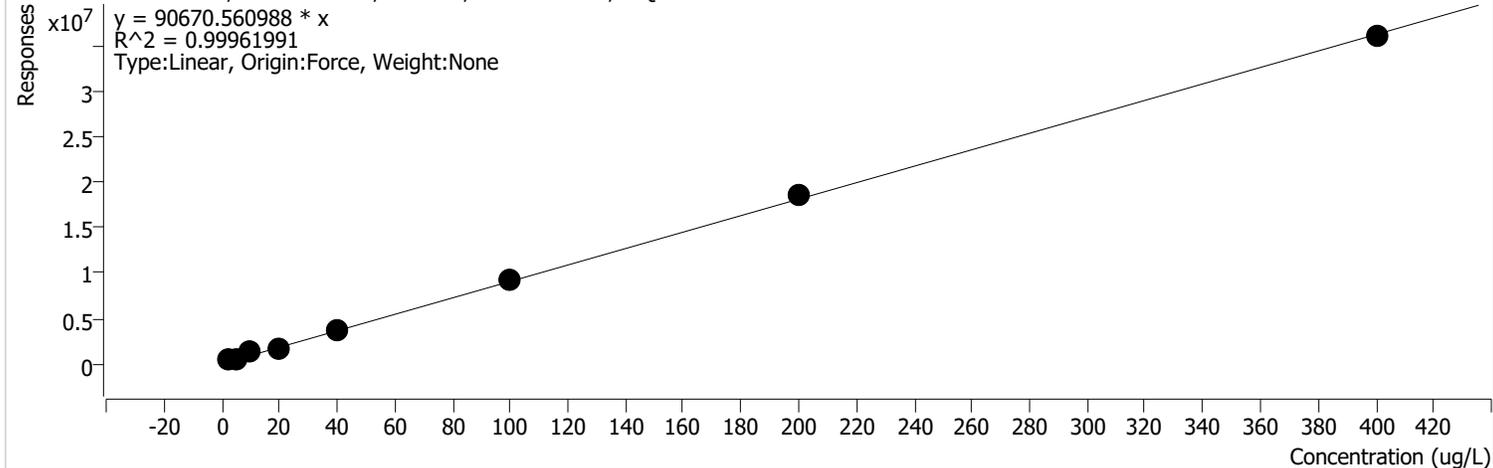
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D:\GC-25\Data\220413\041326.D	Calibration	9	x	4300693	2.0000	2150346.3829	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



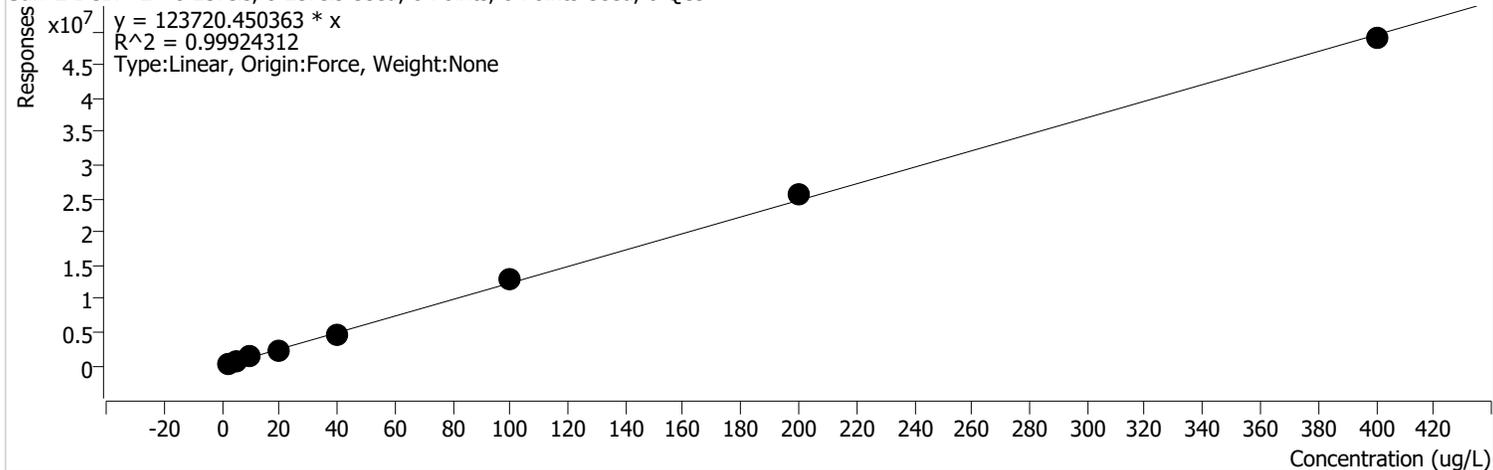
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	532640	5.0000	106527.9789	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1275338	10.0000	127533.8283	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1697421	20.0000	84871.0429	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3645921	40.0000	91148.0140	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9312484	100.0000	93124.8382	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18485909	200.0000	92429.5454	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36023737	400.0000	90059.3433	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



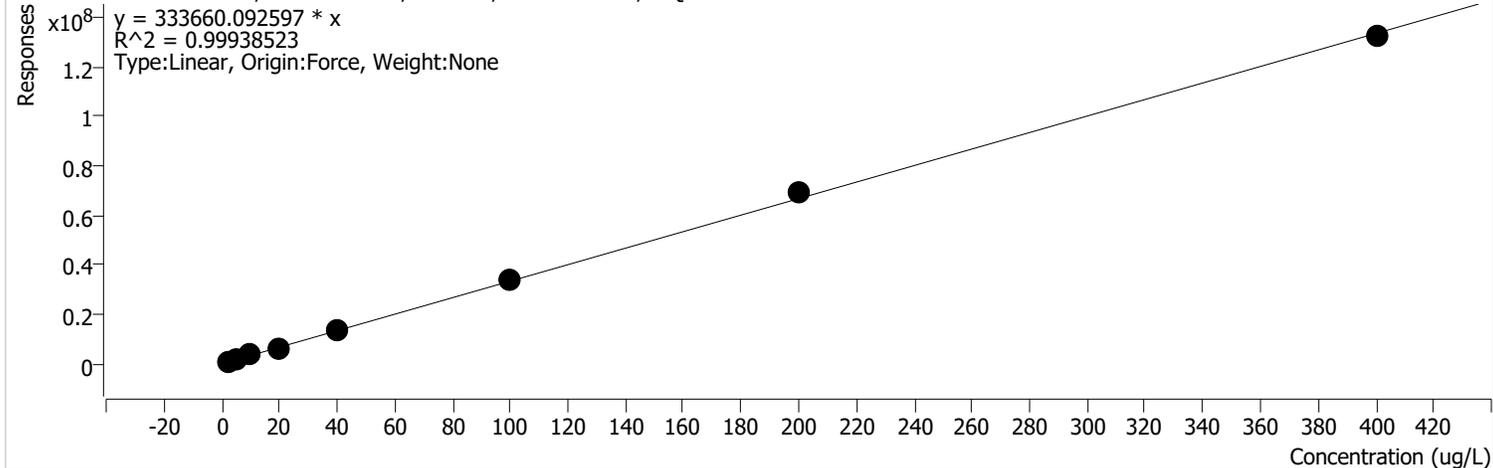
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D:\GC-25\Data\220413\041312.D	Calibration	1	x	460776	2.5000	184310.5735	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	694737	5.0000	138947.4373	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1511942	10.0000	151194.1657	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2393050	20.0000	119652.4878	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4790557	40.0000	119763.9356	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12993931	100.0000	129939.3116	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25590904	200.0000	127954.5211	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48920429	400.0000	122301.0718	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:49 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX 2 %RSE = 12.5

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



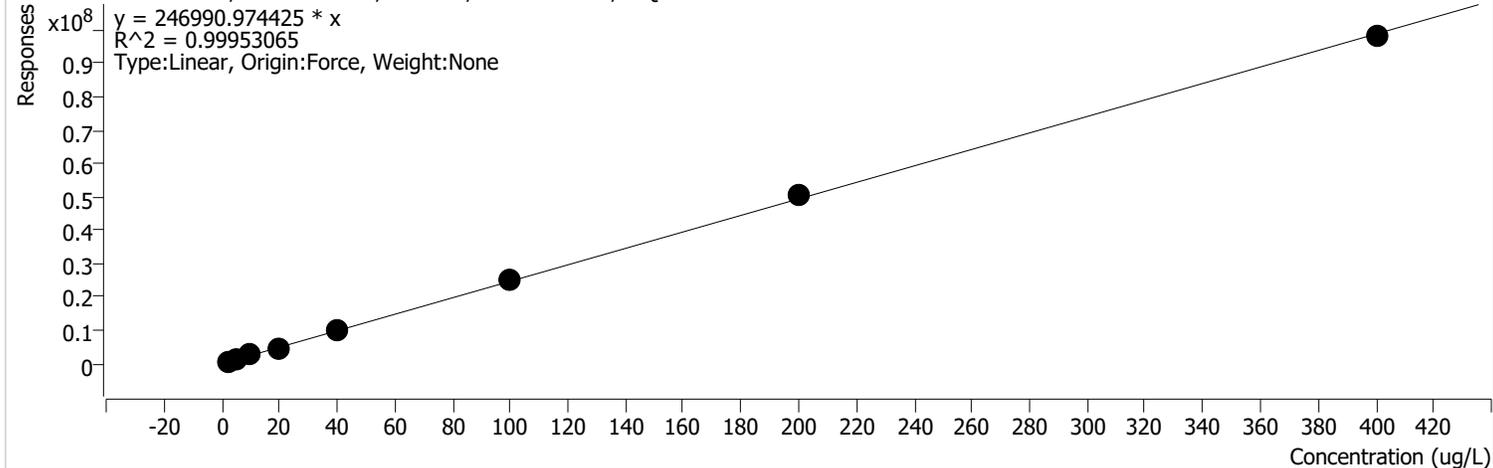
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	942622	2.5000	377048.6 158	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1423745	5.0000	284749.0 467	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	3945533	10.0000	394553.3 322	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5739991	20.0000	286999.5 489	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13192532	40.0000	329813.3 099	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34332107	100.0000	343321.0 719	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69021640	200.0000	345108.1 988	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132126905	400.0000	330317.2 632	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE = 13.0

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



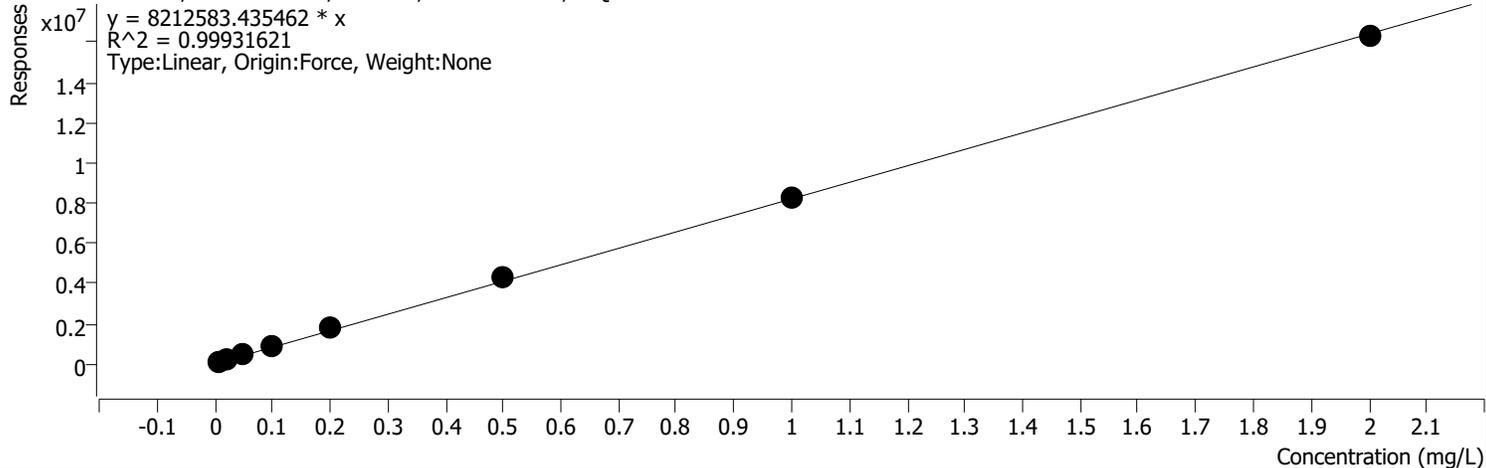
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	718542	2.5000	287416.8 121	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1076230	5.0000	215246.0 110	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2940074	10.0000	294007.3 579	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4252024	20.0000	212601.2 104	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9672795	40.0000	241819.8 869	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25186698	100.0000	251866.9 802	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50885755	200.0000	254428.7 745	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97975382	400.0000	244938.4 551	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 1 %RSE = 36.0

A1016 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



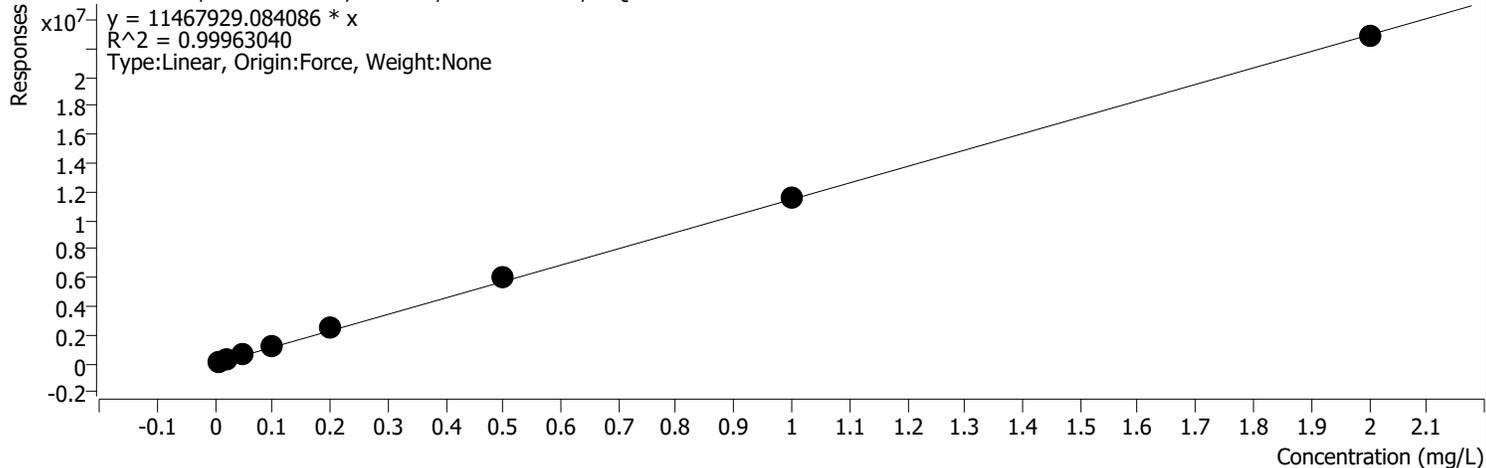
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	228360	0.0200	11417984.2500	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	538830	0.0500	10776608.8616	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	906243	0.1000	9062427.8271	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1844640	0.2000	9223200.3259	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4334139	0.5000	8668278.7875	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	8321135	1.0000	8321135.1656	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	16285436	2.0000	8142717.8884	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
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Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 1 2 %RSE = 30.9

A1016 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

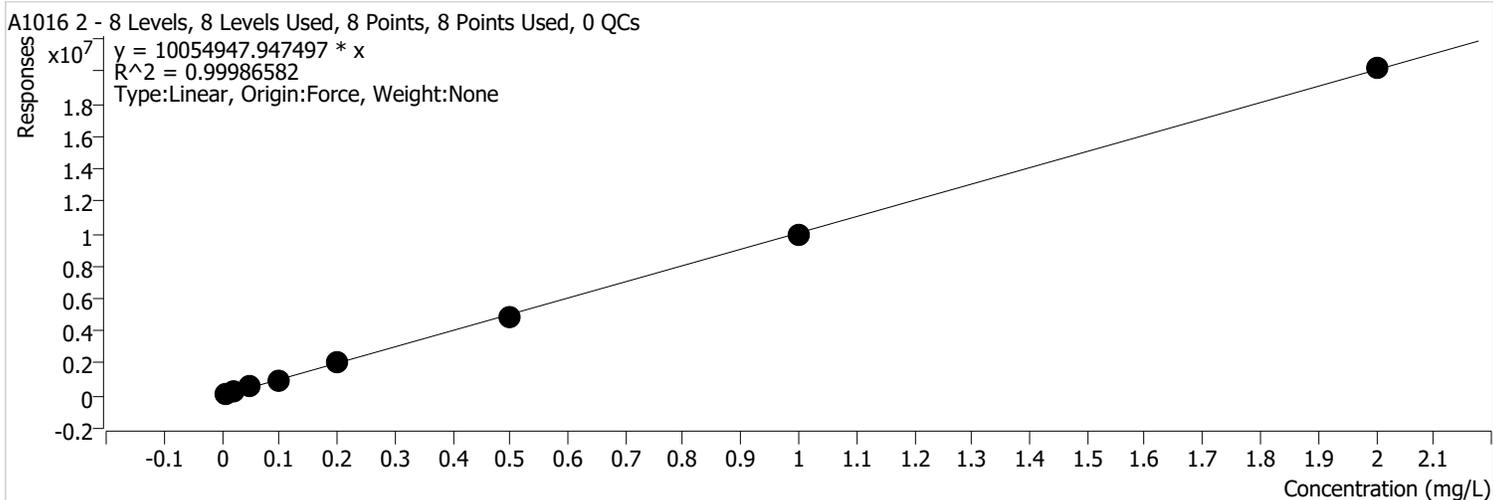


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	314450	0.0200	15722476 .0021	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	719764	0.0500	14395289 .9343	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1196078	0.1000	11960778 .5932	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2528109	0.2000	12640543 .7802	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5972564	0.5000	11945127 .8491	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11524790	1.0000	11524790 .3526	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22817132	2.0000	11408565 .9258	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 2 %RSE = 20.2



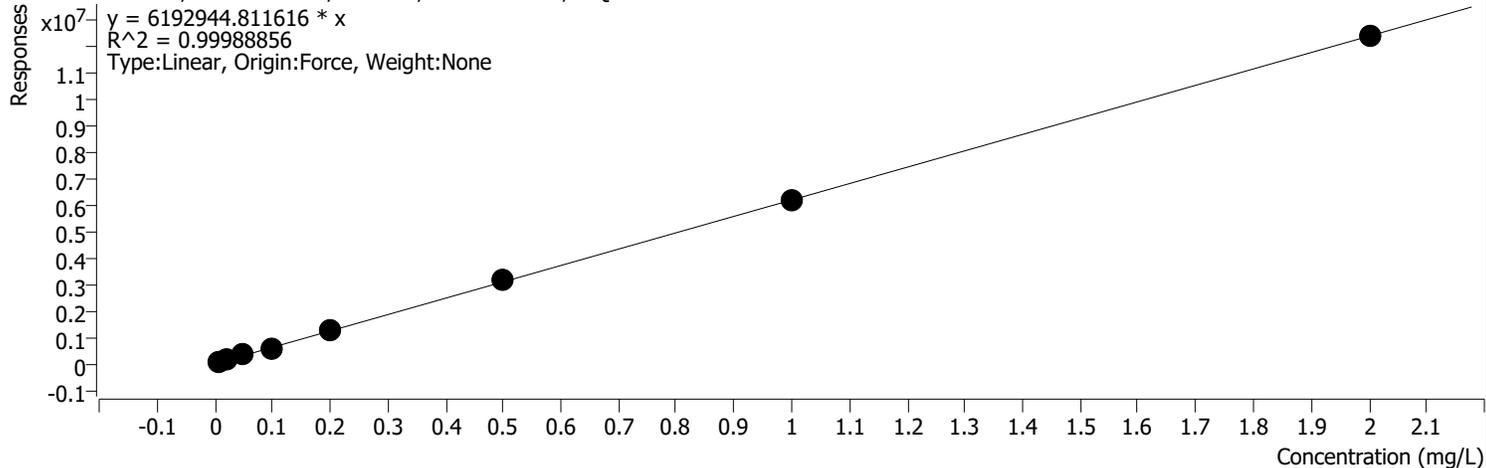
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	115750	0.0080	14468799 .7495	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	241308	0.0200	12065398 .1667	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	550702	0.0500	11014033 .0739	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	968767	0.1000	9687667. 1893	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2017646	0.2000	10088230 .0389	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4856074	0.5000	9712148. 7656	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9986204	1.0000	9986203. 8914	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	20186546	2.0000	10093273 .1965	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 3 %RSE = 26.1

A1016 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



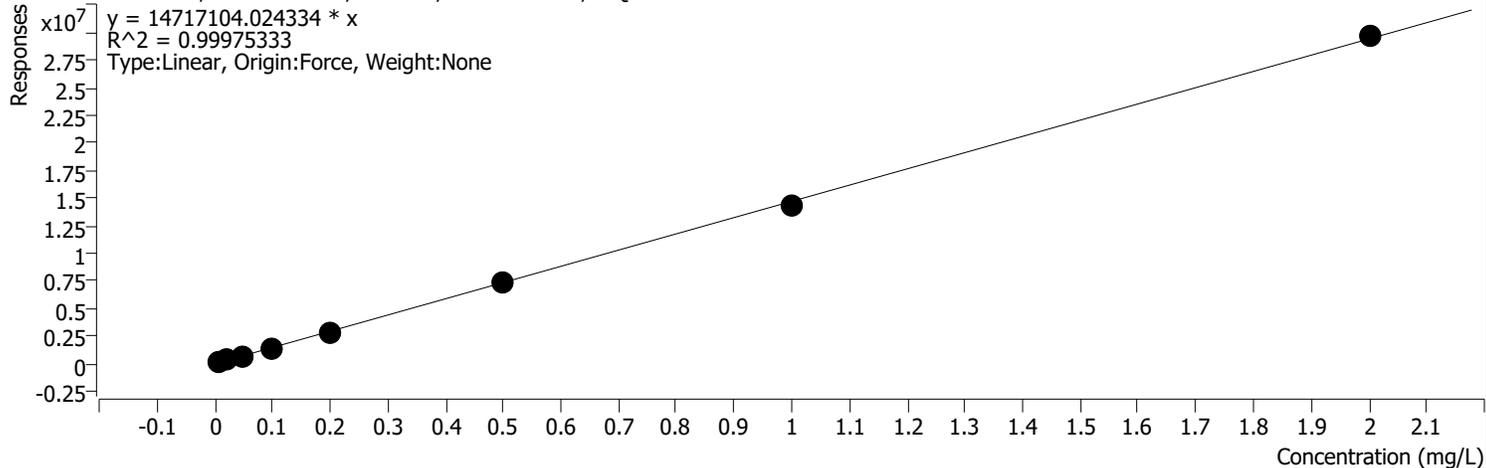
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	157463	0.0200	7873160.7586	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	365761	0.0500	7315224.5937	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	617894	0.1000	6178942.0886	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1315605	0.2000	6578022.5000	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	3151570	0.5000	6303140.0194	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	6191061	1.0000	6191061.1351	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	12363578	2.0000	6181789.1603	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 2 2 %RSE = 14.9

A1016 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



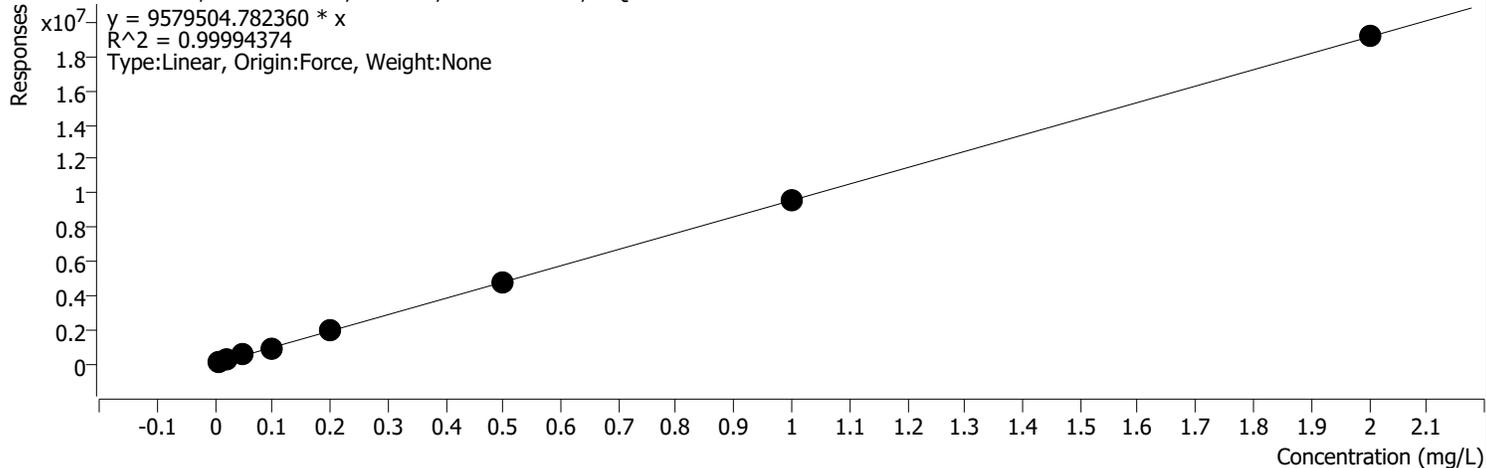
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	346952	0.0200	17347579 .9146	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	750232	0.0500	15004632 .4980	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1328864	0.1000	13288637 .4507	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2812118	0.2000	14060588 .2771	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	7248768	0.5000	14497536 .3852	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	14414980	1.0000	14414980 .3373	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	29631963	2.0000	14815981 .3465	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 3 2 %RSE = 24.9

A1016 3 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



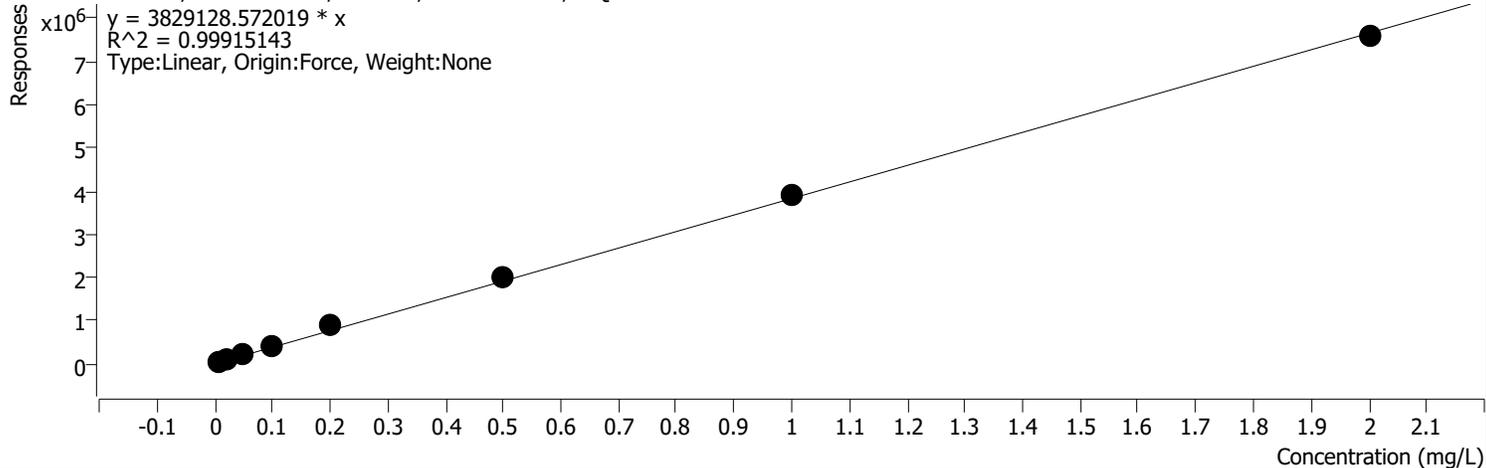
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	247909	0.0200	12395460.0421	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	556230	0.0500	11124596.0286	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	937451	0.1000	9374505.8026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1978288	0.2000	9891439.0024	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4785802	0.5000	9571603.6591	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9531546	1.0000	9531546.0606	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	19176112	2.0000	9588056.1828	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 4 %RSE = 25.3

A1016 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



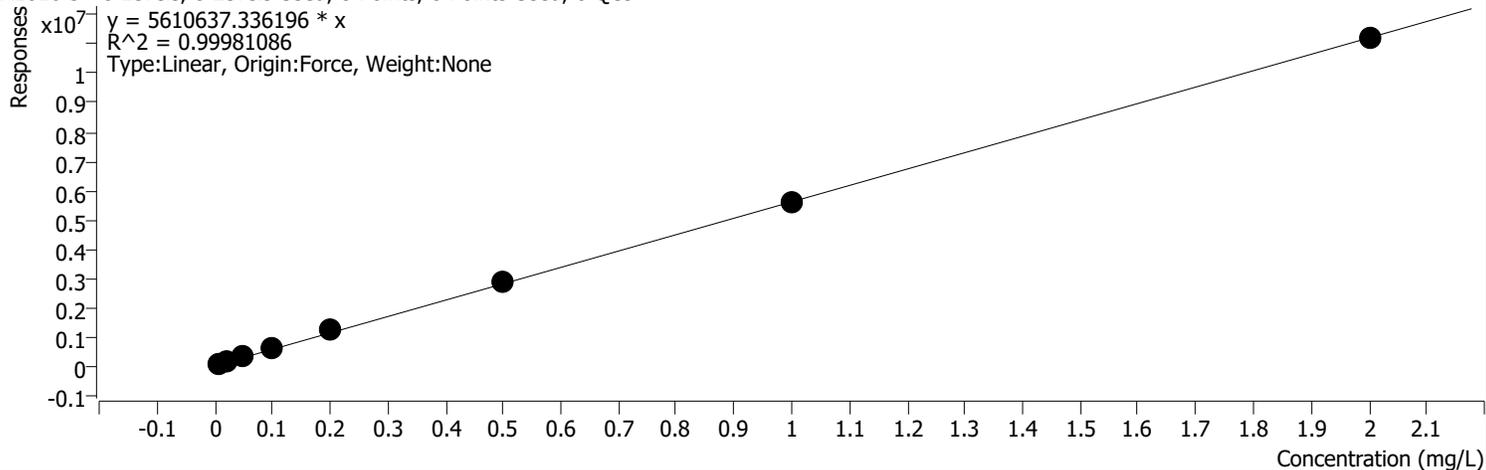
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	103817	0.0200	5190832.0083	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	241114	0.0500	4822287.9931	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	418325	0.1000	4183254.2306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	870501	0.2000	4352503.0115	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2028811	0.5000	4057622.6633	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	3908042	1.0000	3908042.4384	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	7576438	2.0000	3788218.9540	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 5 %RSE = 30.9

A1016 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



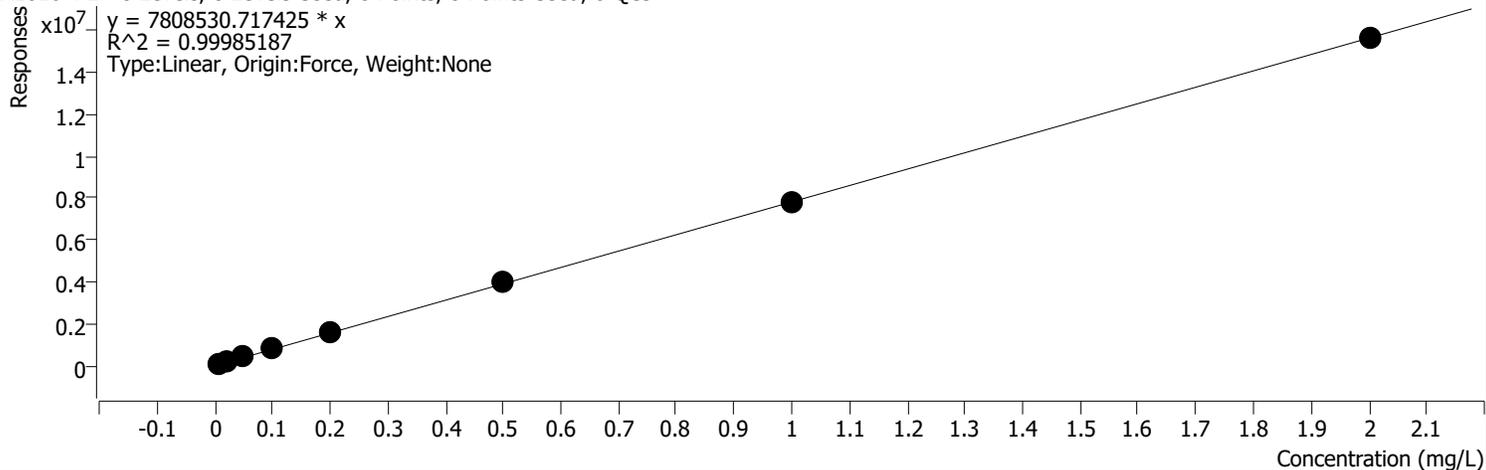
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	157227	0.0200	7861350.2778	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	336583	0.0500	6731663.9624	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	595368	0.1000	5953678.0652	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1201502	0.2000	6007509.0314	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2881876	0.5000	5763751.3420	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5607086	1.0000	5607085.7381	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	11192299	2.0000	5596149.5047	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 4 2 %RSE = 28.5

A1016 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



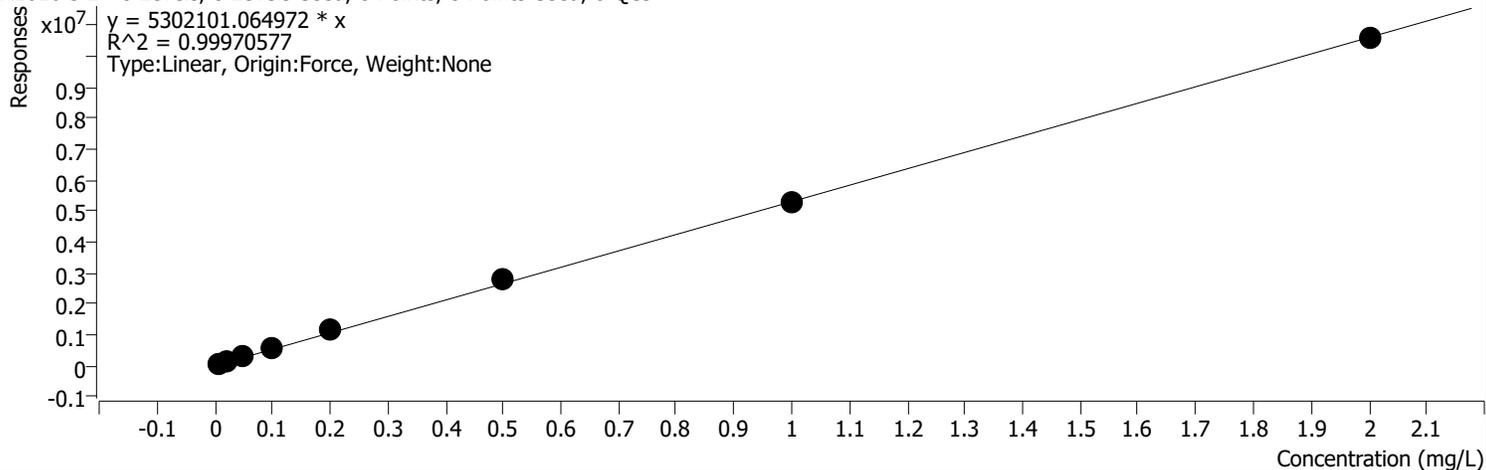
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	464327	0.0500	9286546.2687	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	805200	0.1000	8052004.0720	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1650348	0.2000	8251740.9091	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4009055	0.5000	8018109.5864	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	7793888	1.0000	7793888.4230	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	15585549	2.0000	7792774.5129	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 5 2 %RSE = 29.5

A1016 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



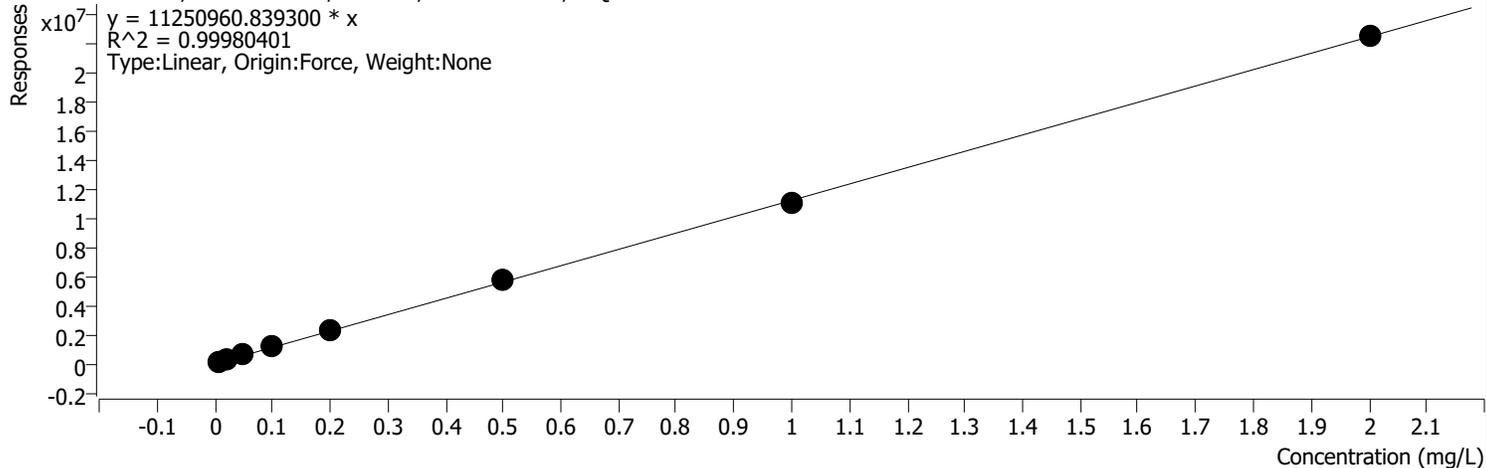
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	66077	0.0080	8259567. 8283	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	147664	0.0200	7383184. 6024	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	320733	0.0500	6414652. 2730	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	558541	0.1000	5585413. 6030	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1154657	0.2000	5773283. 0442	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2756690	0.5000	5513380. 5134	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5304163	1.0000	5304163. 3206	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	10564019	2.0000	5282009. 6621	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 %RSE = 34.1

A1260 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



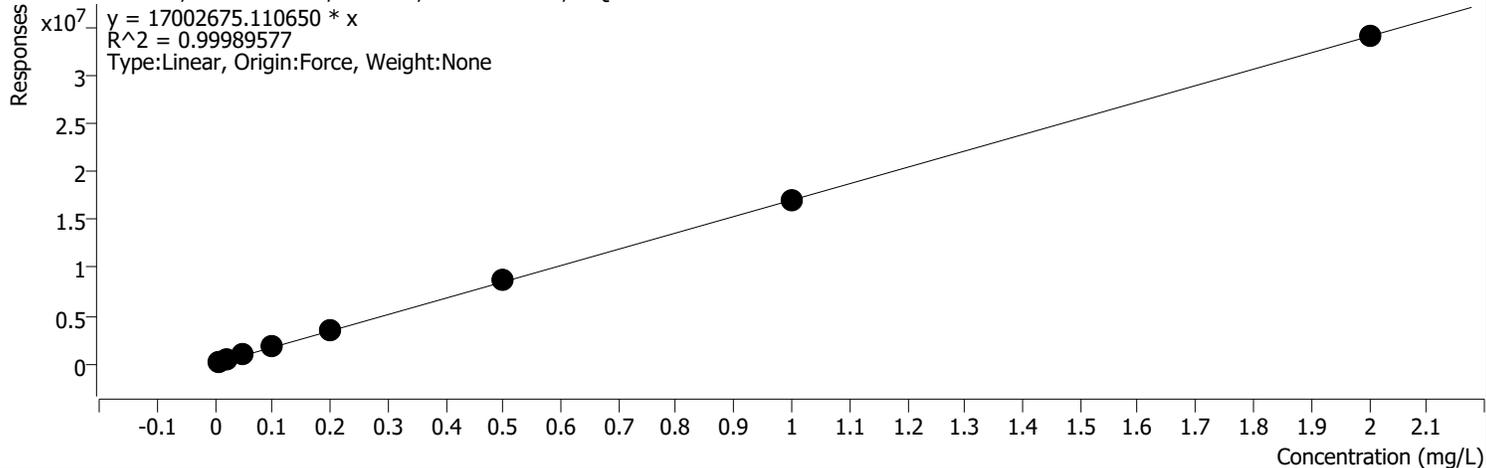
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	323996	0.0200	16199820 .7401	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	698311	0.0500	13966225 .3478	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1152714	0.1000	11527142 .0306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2357356	0.2000	11786779 .7966	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5775073	0.5000	11550146 .7760	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11119189	1.0000	11119188 .9754	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22513688	2.0000	11256844 .1424	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 %RSE = 36.7

A1260 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



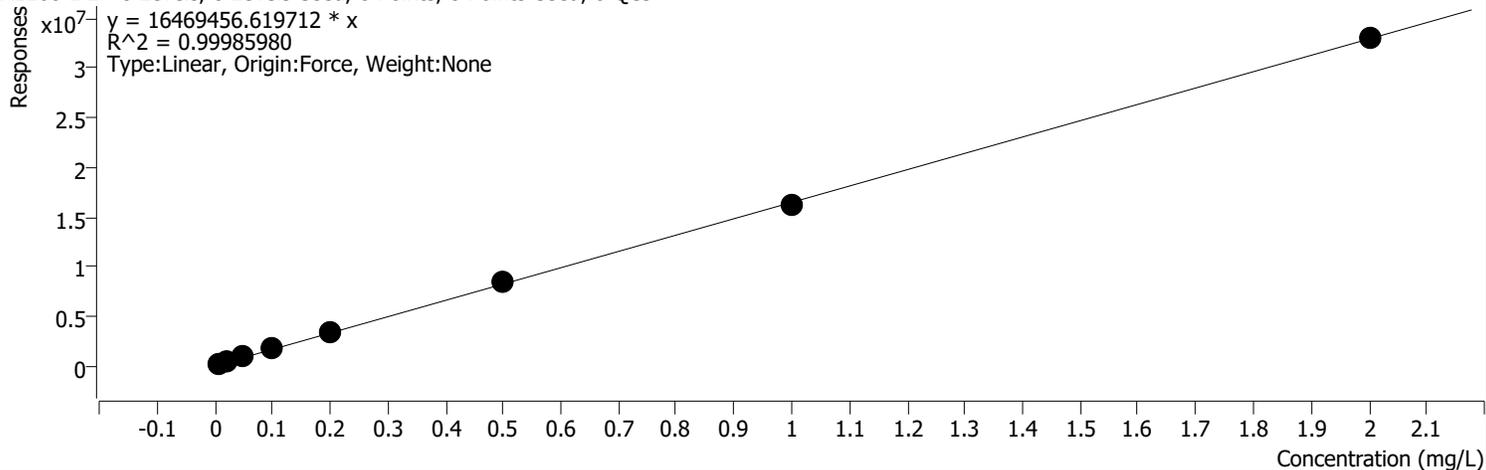
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	236310	0.0080	29538713 .6033	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	500993	0.0200	25049647 .1664	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1019787	0.0500	20395748 .7251	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1716673	0.1000	17166732 .2411	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3546553	0.2000	17732763 .7247	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8615685	0.5000	17231370 .0147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16960071	1.0000	16960071 .0329	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33976391	2.0000	16988195 .7248	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 2 %RSE = 35.2

A1260 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



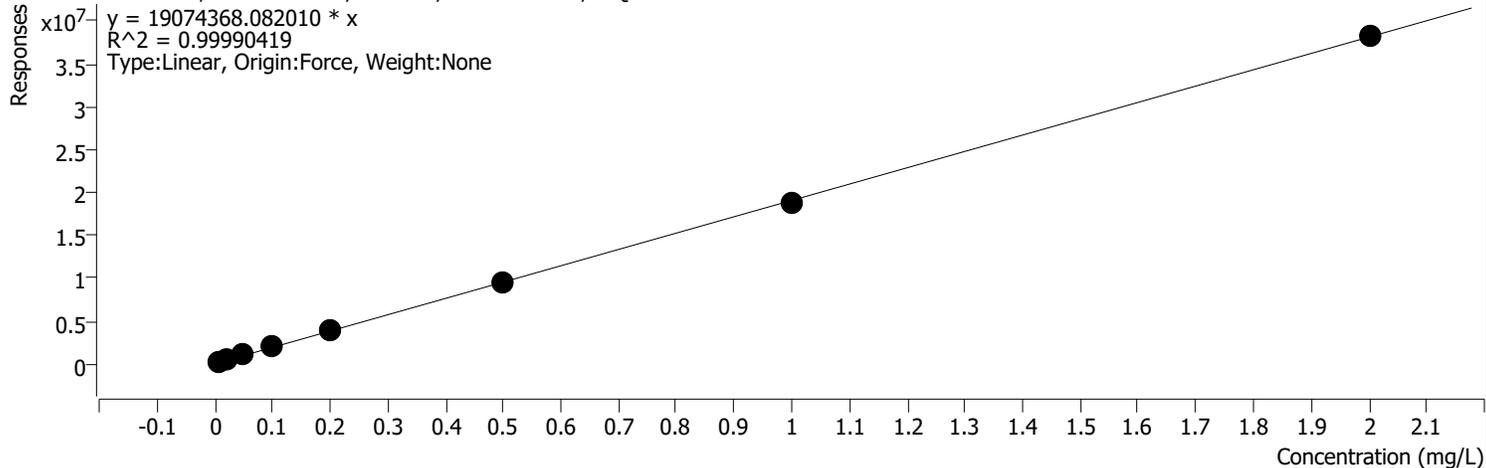
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	225835	0.0080	28229345 .7293	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	473063	0.0200	23653151 .5703	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	993964	0.0500	19879275 .1977	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1679623	0.1000	16796228 .8208	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3424692	0.2000	17123457 .6110	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8390744	0.5000	16781488 .4819	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16304297	1.0000	16304297 .3776	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32961700	2.0000	16480849 .8341	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 2 %RSE = 33.4

A1260 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



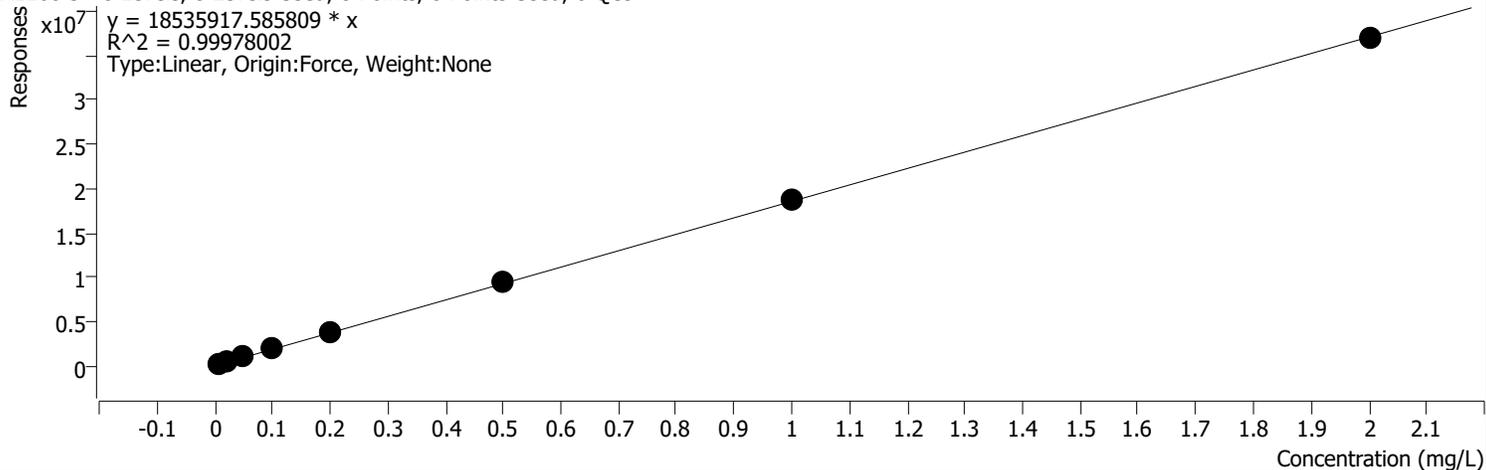
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	255701	0.0080	31962663 .8525	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	542396	0.0200	27119805 .6056	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1126306	0.0500	22526123 .9350	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1917763	0.1000	19177631 .9924	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3929096	0.2000	19645481 .8953	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9639218	0.5000	19278436 .7448	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18909963	1.0000	18909962 .6849	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	38187155	2.0000	19093577 .7381	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 3 %RSE = 38.4

A1260 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

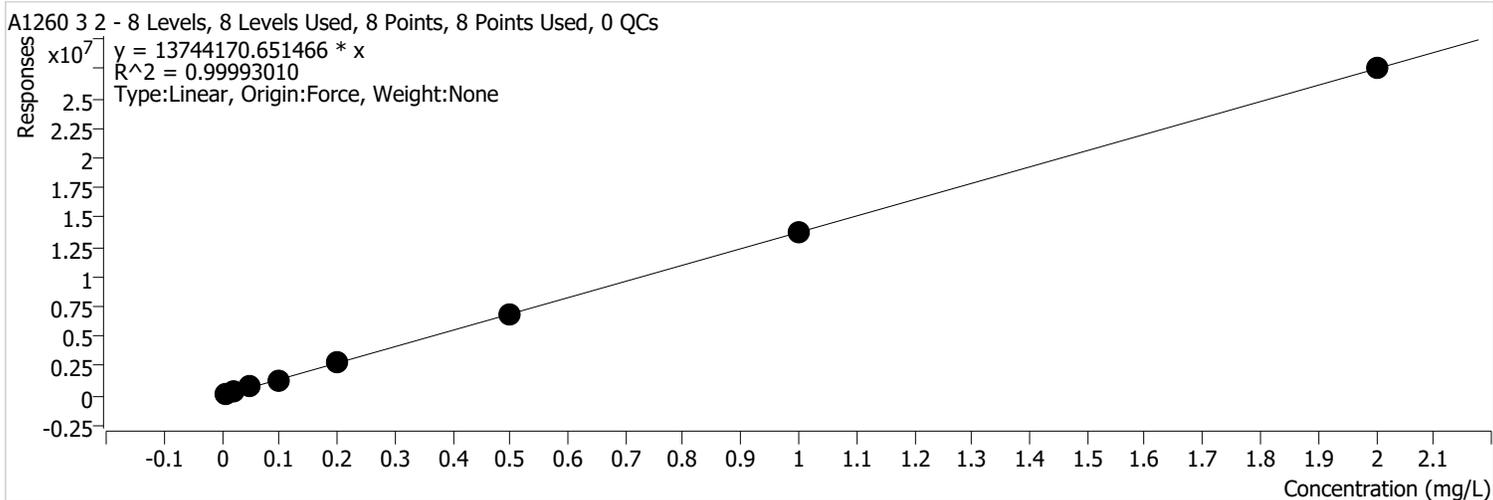


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	272241	0.0080	34030156 .8023	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	500600	0.0200	25030006 .2909	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1156654	0.0500	23133085 .3027	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1925978	0.1000	19259784 .4242	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3814063	0.2000	19070313 .6250	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9541649	0.5000	19083298 .9717	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18739557	1.0000	18739556 .5371	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36879745	2.0000	18439872 .3374	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 3 2 %RSE = 39.3



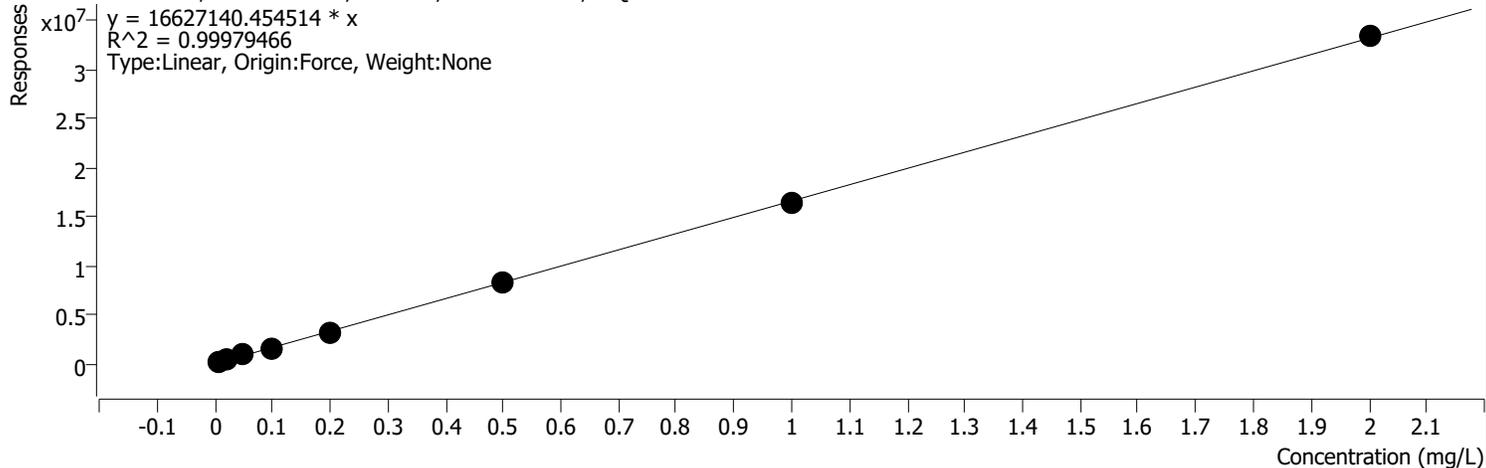
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	206214	0.0080	25776756 .3550	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	371692	0.0200	18584618 .6647	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	818370	0.0500	16367409 .0817	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1354862	0.1000	13548617 .7563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2787292	0.2000	13936459 .2534	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6925113	0.5000	13850226 .3000	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	13679146	1.0000	13679145 .8476	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	27500097	2.0000	13750048 .2804	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 2 %RSE = 43.6

A1260 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



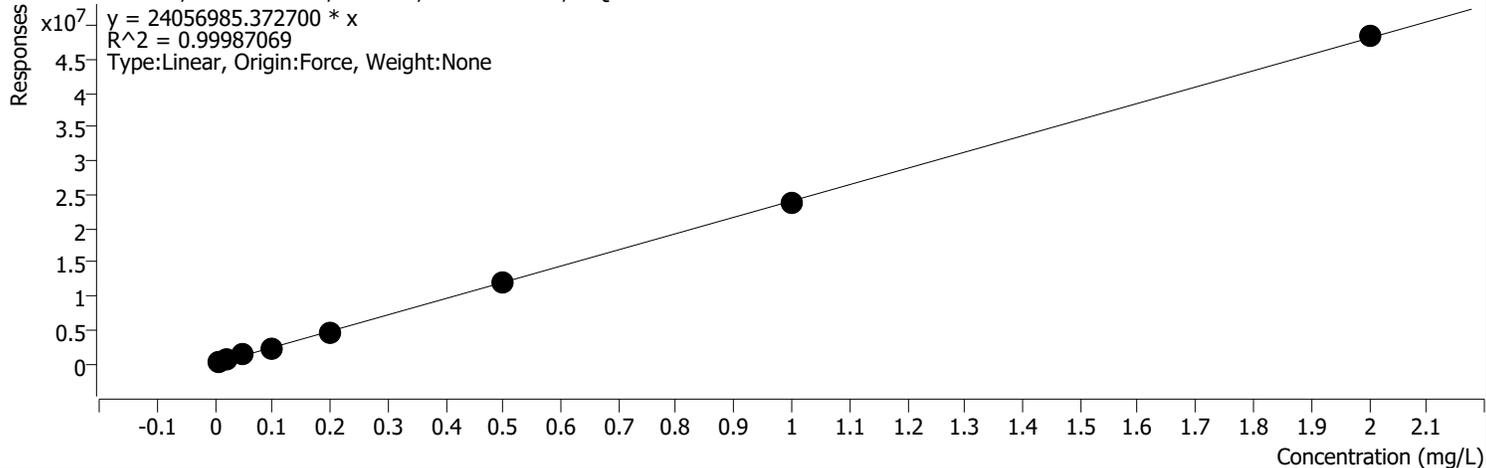
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	257196	0.0080	32149478 .1844	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	499048	0.0200	24952376 .0327	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	920835	0.0500	18416709 .2506	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1538572	0.1000	15385723 .1771	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3271131	0.2000	16355654 .4415	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8360699	0.5000	16721398 .1153	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16312487	1.0000	16312486 .7557	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33407064	2.0000	16703531 .8173	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 %RSE = 27.2

A1260 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



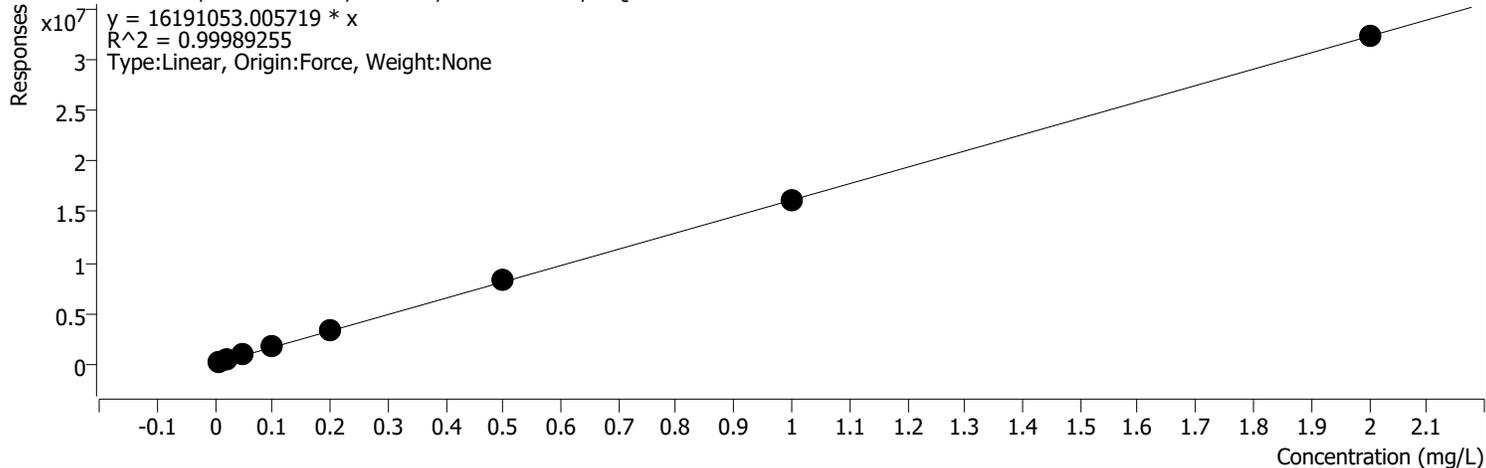
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	302335	0.0080	37791889 .8304	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	635074	0.0200	31753711 .4892	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1325475	0.0500	26509500 .0429	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2255490	0.1000	22554902 .1708	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4673162	0.2000	23365812 .4842	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	11932738	0.5000	23865475 .3147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	23722477	1.0000	23722477 .1145	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48321453	2.0000	24160726 .5000	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 2 %RSE = 34.2

A1260 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



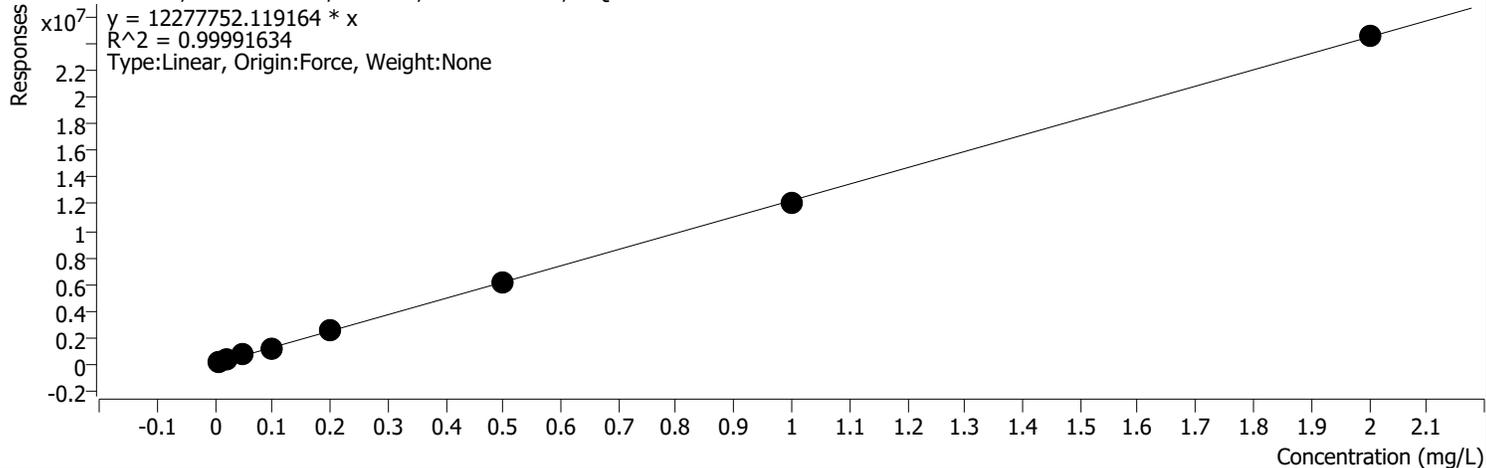
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	218868	0.0080	27358490 .7810	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	463500	0.0200	23174979 .8702	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	963871	0.0500	19277428 .8469	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1625067	0.1000	16250670 .2563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3356413	0.2000	16782063 .2985	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8258079	0.5000	16516158 .5250	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16139707	1.0000	16139706 .9310	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32349410	2.0000	16174705 .2268	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 %RSE = 32.4

A1260 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



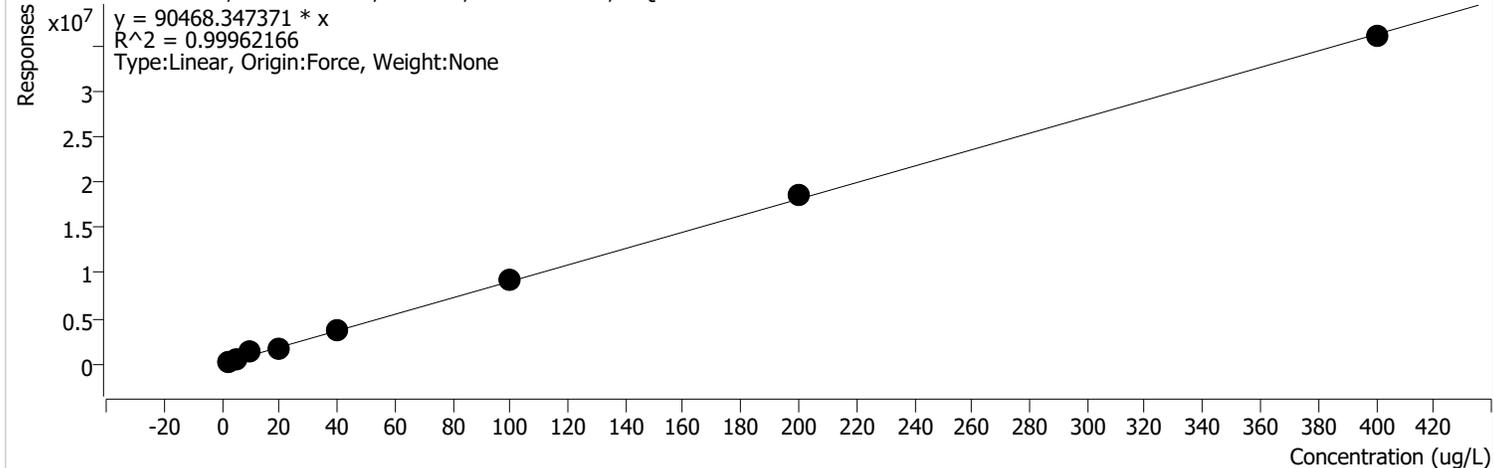
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	164480	0.0080	20559977 .6346	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	339968	0.0200	16998406 .3828	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	716937	0.0500	14338747 .3557	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1224889	0.1000	12248893 .3709	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2489281	0.2000	12446404 .0927	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6210873	0.5000	12421746 .4337	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	12169224	1.0000	12169223 .8748	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	24584755	2.0000	12292377 .4597	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE = 24.9

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



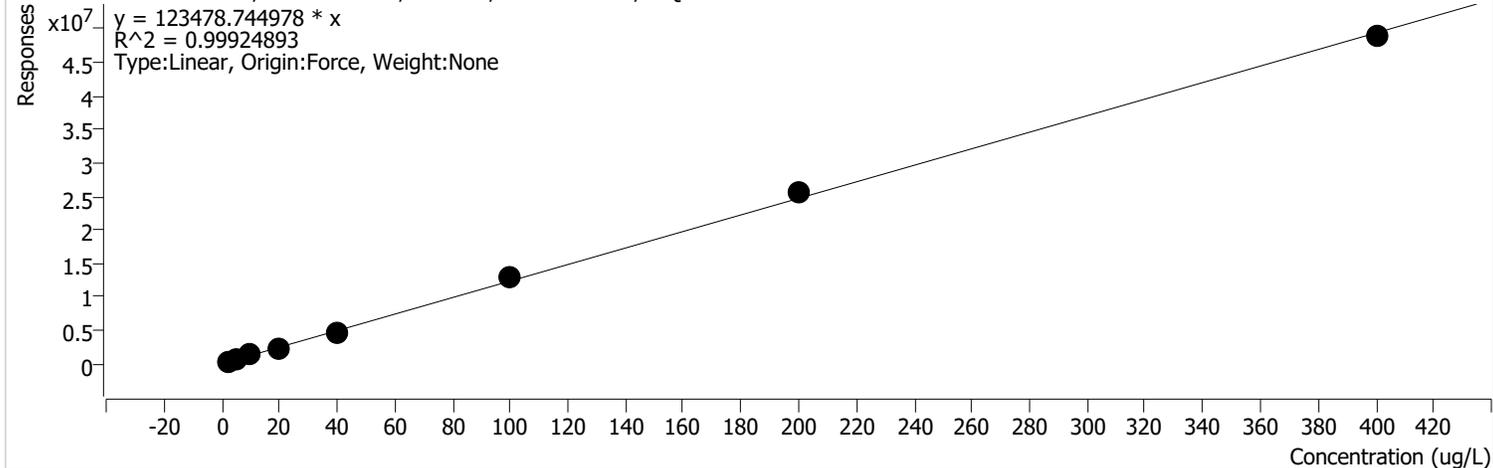
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	326338	2.5000	130535.1 330	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	503182	5.0000	100636.4 120	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1263808	10.0000	126380.7 630	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1687684	20.0000	84384.20 79	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3646289	40.0000	91157.22 85	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9307724	100.0000	93077.23 81	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18453061	200.0000	92265.30 52	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	35935510	400.0000	89838.77 46	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP 2 %RSE = 21.7

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	451184	2.5000	180473.5 958	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	684257	5.0000	136851.4 754	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1513577	10.0000	151357.7 002	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2397630	20.0000	119881.5 211	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4770866	40.0000	119271.6 475	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12924698	100.0000	129246.9 796	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25564453	200.0000	127822.2 641	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48824670	400.0000	122061.6 744	

PCB Calibration

Date: 04/08/22 Cal Std (1016/1260): 26765 Concentration: 100 ug/mL
 Analyst: Sam Vapoi ICV Std (SS): 26724 Concentration: 100 ug/mL
 Aroclors: 1221: 20519 1232: 23017 1242: 23020 1248: 23021
 1254: 23A86 1262: 23022 1268: 20520 Conc: 1000 ug/mL
 Hexane: 6799 SURROGATE: 26572 Concentration: 20 ug/mL

Calibration Point (ppb)	Surr Cal Pt (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
2000	400	960	Cal Std	20	20	1	
1000	200	980	Cal Std	10	10	1	
500	100	990	Cal Std	5	5	1	
200	40	900	2000*	100	--	1	*Points 200, 100, and 50 will be made with prepared Point 2000
100	20	950	2000*	50	--	1	
50	10	975	2000*	25	--	1	
20	(5)	900	200**	100	--	1	**Points 20 and 10 will be made with prepared Point 200
10 8	(2.5)	950	200**	50 40	--	1	
ICB 82-041061 22	200	990	--	-- 82-041061 10	10	1	
ICV (1000 ppb)	200	980	ICV	10	10	1	

Note: Points 20 and 10 will contain surrogate as they are prepared from a mixed std, but will not be included in the surr curve.

Single Point Aroclors

Calibration Point	Surr Conc (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol (mL)	Comments
2000	200	988	Each Aroclor	2	10	1	

Signature and Date: Sam Vapoi 04/08/22

Signature: EM



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

Shannon & Wilson

Ryan Peterson
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: 8801 Excavations
Work Order Number: 2208325

August 24, 2022

Attention Ryan Peterson:

Fremont Analytical, Inc. received 5 sample(s) on 8/22/2022 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)

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,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com



Date: 09/07/2022

CLIENT: Shannon & Wilson
Project: 8801 Excavations
Work Order: 2208325

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208325-001	A4-BOT168:6	08/22/2022 3:00 PM	08/22/2022 5:45 PM
2208325-002	A4-SIDE169:2	08/22/2022 3:05 PM	08/22/2022 5:45 PM
2208325-003	A4-SIDE169:5	08/22/2022 3:10 PM	08/22/2022 5:45 PM
2208325-004	A4-SIDE170:2	08/22/2022 3:12 PM	08/22/2022 5:45 PM
2208325-005	A4-SIDE170:5	08/22/2022 3:15 PM	08/22/2022 5:45 PM

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

CLIENT: Shannon & Wilson

Project: 8801 Excavations

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.

9/7/2022: Revision 1 includes level 2B data.

Qualifiers:

- * - Associated LCS is outside of 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 Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Method Detection Limit
- R - High relative percent difference observed

Acronyms:

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



Client: Shannon & Wilson

Collection Date: 8/22/2022 3:00:00 PM

Project: 8801 Excavations

Lab ID: 2208325-001

Matrix: Soil

Client Sample ID: A4-BOT168:6

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0658	0.0106		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1221	ND	0.0658	0.0106		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1232	ND	0.0658	0.0106		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1242	ND	0.0658	0.0106		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1248	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1254	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1260	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1262	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Aroclor 1268	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Total PCBs	ND	0.0658	0.0131		mg/Kg-dry	1	08/23/22 16:43:19
Surr: Decachlorobiphenyl	99.4	9.77 - 154			%Rec	1	08/23/22 16:43:19
Surr: Tetrachloro-m-xylene	89.6	24.2 - 187			%Rec	1	08/23/22 16:43:19

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	26.3	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 3:05:00 PM

Project: 8801 Excavations

Lab ID: 2208325-002

Matrix: Soil

Client Sample ID: A4-SIDE169:2

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0512	0.00824		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1221	ND	0.0512	0.00824		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1232	ND	0.0512	0.00824		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1242	ND	0.0512	0.00824		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1248	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1254	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1260	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1262	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Aroclor 1268	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Total PCBs	ND	0.0512	0.0102		mg/Kg-dry	1	08/23/22 16:53:08
Surr: Decachlorobiphenyl	97.7	9.77 - 154			%Rec	1	08/23/22 16:53:08
Surr: Tetrachloro-m-xylene	92.7	24.2 - 187			%Rec	1	08/23/22 16:53:08

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	9.07	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 3:10:00 PM

Project: 8801 Excavations

Lab ID: 2208325-003

Matrix: Soil

Client Sample ID: A4-SIDE169:5

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0579	0.00933		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1221	ND	0.0579	0.00933		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1232	ND	0.0579	0.00933		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1242	ND	0.0579	0.00933		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1248	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1254	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1260	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1262	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Aroclor 1268	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Total PCBs	ND	0.0579	0.0115		mg/Kg-dry	1	08/23/22 17:02:53
Surr: Decachlorobiphenyl	102	9.77 - 154			%Rec	1	08/23/22 17:02:53
Surr: Tetrachloro-m-xylene	89.9	24.2 - 187			%Rec	1	08/23/22 17:02:53

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	18.7	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson

Collection Date: 8/22/2022 3:12:00 PM

Project: 8801 Excavations

Lab ID: 2208325-004

Matrix: Soil

Client Sample ID: A4-SIDE170:2

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

Batch ID: 37522

Analyst: OK

Aroclor 1016	ND	0.0576	0.00927		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1221	ND	0.0576	0.00927		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1232	ND	0.0576	0.00927		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1242	ND	0.0576	0.00927		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1248	ND	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1254	0.165	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1260	ND	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1262	ND	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Aroclor 1268	ND	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Total PCBs	0.165	0.0576	0.0114		mg/Kg-dry	1	08/23/22 17:12:39
Surr: Decachlorobiphenyl	98.2	9.77 - 154			%Rec	1	08/23/22 17:12:39
Surr: Tetrachloro-m-xylene	66.3	24.2 - 187			%Rec	1	08/23/22 17:12:39

Sample Moisture (Percent Moisture)

Batch ID: R77720

Analyst: SK

Percent Moisture	18.1	0.500	0.100		wt%	1	08/23/22 10:30:49
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Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208325-005
Client Sample ID: A4-SIDE170:5

Collection Date: 8/22/2022 3:15:00 PM
Matrix: Soil

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
<u>Polychlorinated Biphenyls (PCB) by EPA 8082</u>				Batch ID: 37522		Analyst: OK	
Aroclor 1016	ND	0.0616	0.00993		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1221	ND	0.0616	0.00993		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1232	ND	0.0616	0.00993		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1242	ND	0.0616	0.00993		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1248	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1254	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1260	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1262	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Aroclor 1268	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Total PCBs	ND	0.0616	0.0122		mg/Kg-dry	1	08/23/22 17:22:21
Surr: Decachlorobiphenyl	100	9.77 - 154			%Rec	1	08/23/22 17:22:21
Surr: Tetrachloro-m-xylene	75.2	24.2 - 187			%Rec	1	08/23/22 17:22:21
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R77720		Analyst: SK	
Percent Moisture	21.1	0.500	0.100		wt%	1	08/23/22 10:30:49

Work Order: 2208325
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: PCB ICB	SampType: ICB	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICB	Batch ID: 37522				Analysis Date: 4/14/2022	SeqNo: 1540495					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	167		200.0		83.7	50.2	159				
Surr: Tetrachloro-m-xylene	179		200.0		89.4	60.3	134				

Sample ID: PCB ICV	SampType: ICV	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICV	Batch ID: 37522				Analysis Date: 4/14/2022	SeqNo: 1540496					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.991	0.0500	1.000	0	99.1	80	120				
Aroclor 1260	0.987	0.0500	1.000	0	98.7	80	120				
Surr: Decachlorobiphenyl	206		200.0		103	30.2	155				
Surr: Tetrachloro-m-xylene	196		200.0		98.2	58.8	143				

Sample ID: 1660-CCV-37522A	SampType: CCV	Units: mg/Kg			Prep Date: 8/23/2022	RunNo: 77746					
Client ID: CCV	Batch ID: 37522				Analysis Date: 8/23/2022	SeqNo: 1597098					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.984	0.0500	1.000	0	98.4	80	120				
Aroclor 1260	1.00	0.0500	1.000	0	100	80	120				
Surr: Decachlorobiphenyl	242		200.0		121	30.2	155				
Surr: Tetrachloro-m-xylene	181		200.0		90.7	58.8	143				

Work Order: 2208325
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-37522	SampType: MBLK	Units: mg/Kg			Prep Date: 8/23/2022	RunNo: 77746					
Client ID: MBLKS	Batch ID: 37522				Analysis Date: 8/23/2022	SeqNo: 1597099					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	240		200.0		120	9.77	154				
Surr: Tetrachloro-m-xylene	170		200.0		85.1	24.2	187				

Sample ID: LCS-37522	SampType: LCS	Units: mg/Kg			Prep Date: 8/23/2022	RunNo: 77746					
Client ID: LCSS	Batch ID: 37522				Analysis Date: 8/23/2022	SeqNo: 1597100					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.992	0.0500	1.000	0	99.2	75.7	162				
Aroclor 1260	0.873	0.0500	1.000	0	87.3	57.8	183				
Surr: Decachlorobiphenyl	194		200.0		97.1	9.77	154				
Surr: Tetrachloro-m-xylene	179		200.0		89.6	24.2	187				

Sample ID: 2208314-021AMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 8/23/2022	RunNo: 77746					
Client ID: BATCH	Batch ID: 37522				Analysis Date: 8/23/2022	SeqNo: 1597102					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.780	0.0405	0.8108	0	96.3	55.6	188				
Aroclor 1260	0.766	0.0405	0.8108	0	94.5	54.5	178				
Surr: Decachlorobiphenyl	161		162.2		99.5	9.77	154				
Surr: Tetrachloro-m-xylene	130		162.2		80.4	24.2	187				

Work Order: 2208325
CLIENT: Shannon & Wilson
Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2208314-021AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/23/2022		RunNo: 77746			
Client ID: BATCH		Batch ID: 37522				Analysis Date: 8/23/2022		SeqNo: 1597103			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.870	0.0404	0.8084	0	108	55.6	188	0.7804	10.8	30	
Aroclor 1260	0.863	0.0404	0.8084	0	107	54.5	178	0.7658	11.9	30	
Surr: Decachlorobiphenyl	159		161.7		98.1	9.77	154		0		
Surr: Tetrachloro-m-xylene	147		161.7		90.7	24.2	187		0		

Sample ID: 1660-CCV-37522B		SampType: CCV		Units: mg/Kg		Prep Date: 8/23/2022		RunNo: 77746			
Client ID: CCV		Batch ID: 37522				Analysis Date: 8/23/2022		SeqNo: 1597123			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.12	0.0500	1.000	0	112	80	120				
Aroclor 1260	1.17	0.0500	1.000	0	117	80	120				
Surr: Decachlorobiphenyl	286		200.0		143	30.2	155				
Surr: Tetrachloro-m-xylene	199		200.0		99.3	58.8	143				

Client Name: SW	Work Order Number: 2208325
Logged by: Gabrielle Coeuille	Date Received: 8/22/2022 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 present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°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
Sample 1	6.0

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

DATA SET for Review - Deliverable Requirements

Polychlorinated Biphenyls (PCB) by EPA 8082

Fremont Analytical Work Order No. 2208325

Shannon & Wilson

Project Name: 8801- Excavations

This Data contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-25\Data\220413\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041305.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:39 pm
2) 041306.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:54 pm
3) 041307.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:04 pm
4) 041308.D 1254	PCB_GC25_PEST_190228.M	7	1.000	14 Apr 2022 04:14 pm
5) 041309.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:23 pm
6) 041310.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:33 pm
7) 041311.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:43 pm
8) 041312.D PCB 8	PCB_GC25_PEST_190228.M	101	1.000	14 Apr 2022 04:53 pm
9) 041313.D PCB 20	PCB_GC25_PEST_190228.M	102	1.000	14 Apr 2022 05:03 pm
10) 041314.D PCB 50	PCB_GC25_PEST_190228.M	103	1.000	14 Apr 2022 05:13 pm
11) 041315.D PCB 100	PCB_GC25_PEST_190228.M	104	1.000	14 Apr 2022 05:22 pm
12) 041316.D PCB 200	PCB_GC25_PEST_190228.M	105	1.000	14 Apr 2022 05:32 pm
13) 041317.D PCB 500	PCB_GC25_PEST_190228.M	106	1.000	14 Apr 2022 05:42 pm
14) 041318.D PCB 1000	PCB_GC25_PEST_190228.M	107	1.000	14 Apr 2022 05:52 pm
15) 041319.D PCB 2000	PCB_GC25_PEST_190228.M	108	1.000	14 Apr 2022 06:01 pm
16) 041320.D PCB ICB	PCB_GC25_PEST_190228.M	109	1.000	14 Apr 2022 06:11 pm
17) 041321.D PCB ICV	PCB_GC25_PEST_190228.M	110	1.000	14 Apr 2022 06:21 pm
18) 041322.D PCB 1221	PCB_GC25_PEST_190228.M	111	1.000	14 Apr 2022 06:31 pm
19) 041323.D PCB 1232	PCB_GC25_PEST_190228.M	112	1.000	14 Apr 2022 06:41 pm
20) 041324.D PCB 1242	PCB_GC25_PEST_190228.M	113	1.000	14 Apr 2022 06:50 pm
21) 041325.D PCB 1248	PCB_GC25_PEST_190228.M	114	1.000	14 Apr 2022 07:00 pm

22)	041326.D	PCB_GC25_PEST_190228.M					
PCB 1254			115	1.000	14 Apr 2022	07:10 pm	

23)	041327.D	PCB_GC25_PEST_190228.M					
PCB 1262			116	1.000	14 Apr 2022	07:20 pm	

24)	041328.D	PCB_GC25_PEST_190228.M					
PCB 1268			117	1.000	14 Apr 2022	07:30 pm	

25)	042902.D	PCB_GC25_PEST_190228.M					
1660			150	1.000	29 Apr 2022	08:57 am	

Data Directory: D:\GC-25\Data\220823\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041322.D PCB 1221	PCB_GC25_PEST_190228.M	111	1.000	14 Apr 2022 06:31 pm
2) 041323.D PCB 1232	PCB_GC25_PEST_190228.M	112	1.000	14 Apr 2022 06:41 pm
3) 041324.D PCB 1242	PCB_GC25_PEST_190228.M	113	1.000	14 Apr 2022 06:50 pm
4) 041325.D PCB 1248	PCB_GC25_PEST_190228.M	114	1.000	14 Apr 2022 07:00 pm
5) 041326.D PCB 1254	PCB_GC25_PEST_190228.M	115	1.000	14 Apr 2022 07:10 pm
6) 041327.D PCB 1262	PCB_GC25_PEST_190228.M	116	1.000	14 Apr 2022 07:20 pm
7) 041328.D PCB 1268	PCB_GC25_PEST_190228.M	117	1.000	14 Apr 2022 07:30 pm
8) 082301.D CO	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:24 am
9) 082302.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022 08:34 am
10) 082303.D MB-37521	PCB_GC25_PEST_190228.M	11	1.000	23 Aug 2022 10:33 am
11) 082304.D LCS-37521	PCB_GC25_PEST_190228.M	12	1.000	23 Aug 2022 10:42 am
12) 082305.D 2208314-001A	PCB_GC25_PEST_190228.M	13	1.000	23 Aug 2022 10:52 am
13) 082306.D 2208314-002A	PCB_GC25_PEST_190228.M	14	1.000	23 Aug 2022 11:02 am
14) 082307.D 2208314-003A	PCB_GC25_PEST_190228.M	15	1.000	23 Aug 2022 11:11 am
15) 082308.D 2208314-004A	PCB_GC25_PEST_190228.M	16	1.000	23 Aug 2022 11:21 am
16) 082309.D 2208314-005A	PCB_GC25_PEST_190228.M	17	1.000	23 Aug 2022 11:31 am
17) 082310.D 2208314-006A	PCB_GC25_PEST_190228.M	18	1.000	23 Aug 2022 11:40 am
18) 082311.D 2208314-007A	PCB_GC25_PEST_190228.M	19	1.000	23 Aug 2022 11:50 am
19) 082312.D 2208314-008A	PCB_GC25_PEST_190228.M	20	1.000	23 Aug 2022 12:00 pm
20) 082313.D 2208314-009A	PCB_GC25_PEST_190228.M	21	1.000	23 Aug 2022 12:10 pm
21) 082314.D 2208314-010A	PCB_GC25_PEST_190228.M	22	1.000	23 Aug 2022 12:19 pm

22) 082315.D	PCB_GC25_PEST_190228.M	23	1.000	23 Aug 2022	12:29	pm
2208314-010AMS						
23) 082316.D	PCB_GC25_PEST_190228.M	24	1.000	23 Aug 2022	12:39	pm
2208314-010AMSD						
24) 082317.D	PCB_GC25_PEST_190228.M	25	1.000	23 Aug 2022	12:48	pm
2208314-011A						
25) 082318.D	PCB_GC25_PEST_190228.M	26	1.000	23 Aug 2022	12:58	pm
2208314-012A						
26) 082319.D	PCB_GC25_PEST_190228.M	27	1.000	23 Aug 2022	01:08	pm
2208314-013A						
27) 082320.D	PCB_GC25_PEST_190228.M	28	1.000	23 Aug 2022	01:18	pm
2208314-014A						
28) 082321.D	PCB_GC25_PEST_190228.M	29	1.000	23 Aug 2022	01:27	pm
2208314-015A						
29) 082322.D	PCB_GC25_PEST_190228.M	30	1.000	23 Aug 2022	01:37	pm
2208314-016A						
30) 082323.D	PCB_GC25_PEST_190228.M	31	1.000	23 Aug 2022	01:47	pm
2208314-017A						
31) 082324.D	PCB_GC25_PEST_190228.M	32	1.000	23 Aug 2022	01:56	pm
2208314-018A						
32) 082325.D	PCB_GC25_PEST_190228.M	33	1.000	23 Aug 2022	02:06	pm
2208314-019A						
33) 082326.D	PCB_GC25_PEST_190228.M	34	1.000	23 Aug 2022	02:16	pm
2208314-020A						
34) 082327.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:26	pm
CO						
35) 082328.D	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	02:36	pm
1660-CCV-tfm						
36) 082329.D	PCB_GC25_PEST_190228.M	37	1.000	23 Aug 2022	02:46	pm
MB-37522						
37) 082330.D	PCB_GC25_PEST_190228.M	38	1.000	23 Aug 2022	02:56	pm
LCS-37522						
38) 082331.D	PCB_GC25_PEST_190228.M	39	1.000	23 Aug 2022	03:05	pm
2208314-021A						
39) 082332.D	PCB_GC25_PEST_190228.M	40	1.000	23 Aug 2022	03:15	pm
2208314-021AMS						
40) 082333.D	PCB_GC25_PEST_190228.M	41	1.000	23 Aug 2022	03:25	pm
2208314-021AMSD						
41) 082334.D	PCB_GC25_PEST_190228.M	42	1.000	23 Aug 2022	03:35	pm
2208314-022A						
42) 082335.D	PCB_GC25_PEST_190228.M	43	1.000	23 Aug 2022	03:44	pm
2208314-023A						
43) 082336.D	PCB_GC25_PEST_190228.M	44	1.000	23 Aug 2022	03:54	pm
2208314-024A						
44) 082337.D	PCB_GC25_PEST_190228.M	45	1.000	23 Aug 2022	04:04	pm
2208314-025A						
45) 082338.D	PCB_GC25_PEST_190228.M					

2208314-026A		46	1.000	23 Aug 2022	04:14	pm
46) 082339.D	PCB_GC25_PEST_190228.M					
2208314-027A		47	1.000	23 Aug 2022	04:23	pm
47) 082340.D	PCB_GC25_PEST_190228.M					
2208314-028A		48	1.000	23 Aug 2022	04:33	pm
48) 082341.D	PCB_GC25_PEST_190228.M					
2208325-001A		49	1.000	23 Aug 2022	04:43	pm
49) 082342.D	PCB_GC25_PEST_190228.M					
2208325-002A		50	1.000	23 Aug 2022	04:53	pm
50) 082343.D	PCB_GC25_PEST_190228.M					
2208325-003A		51	1.000	23 Aug 2022	05:02	pm
51) 082344.D	PCB_GC25_PEST_190228.M					
2208325-004A		52	1.000	23 Aug 2022	05:12	pm
52) 082345.D	PCB_GC25_PEST_190228.M					
2208325-005A		53	1.000	23 Aug 2022	05:22	pm
53) 082346.D	PCB_GC25_PEST_190228.M					
2208320-001A		54	1.000	23 Aug 2022	05:32	pm
54) 082347.D	PCB_GC25_PEST_190228.M					
2208320-002A		55	1.000	23 Aug 2022	05:41	pm
55) 082348.D	PCB_GC25_PEST_190228.M					
2208320-003A		56	1.000	23 Aug 2022	05:51	pm
56) 082349.D	PCB_GC25_PEST_190228.M					
2208320-004A		57	1.000	23 Aug 2022	06:01	pm
57) 082350.D	PCB_GC25_PEST_190228.M					
2208320-005A		58	1.000	23 Aug 2022	06:10	pm
58) 082351.D	PCB_GC25_PEST_190228.M					
2208321-001A		59	1.000	23 Aug 2022	06:20	pm
59) 082352.D	PCB_GC25_PEST_190228.M					
2208321-002A		60	1.000	23 Aug 2022	06:30	pm
60) 082353.D	PCB_GC25_PEST_190228.M					
MB-37511		61	1.000	23 Aug 2022	06:40	pm
61) 082354.D	PCB_GC25_PEST_190228.M					
LCS-LL-37511		62	1.000	23 Aug 2022	06:49	pm
62) 082355.D	PCB_GC25_PEST_190228.M					
LCS-37511		63	1.000	23 Aug 2022	06:59	pm
63) 082356.D	PCB_GC25_PEST_190228.M					
LCSD-37511		64	1.000	23 Aug 2022	07:09	pm
64) 082357.D	PCB_GC25_PEST_190228.M					
2208281-002D		65	1.000	23 Aug 2022	07:19	pm
65) 082358.D	PCB_GC25_PEST_190228.M					
2208281-003D		66	1.000	23 Aug 2022	07:28	pm
66) 082359.D	PCB_GC25_PEST_190228.M					
2208281-004D		67	1.000	23 Aug 2022	07:38	pm
67) 082360.D	PCB_GC25_PEST_190228.M					
2208281-005D		68	1.000	23 Aug 2022	07:48	pm
68) 082361.D	PCB_GC25_PEST_190228.M					
2208300-001A		69	1.000	23 Aug 2022	07:58	pm

69) 082362.D 2208300-003A	PCB_GC25_PEST_190228.M	70	1.000	23 Aug 2022	08:07 pm
70) 082363.D 2208300-003AMS	PCB_GC25_PEST_190228.M	71	1.000	23 Aug 2022	08:17 pm
71) 082364.D 2208301-001A	PCB_GC25_PEST_190228.M	72	1.000	23 Aug 2022	08:27 pm
72) 082365.D 2208301-002A	PCB_GC25_PEST_190228.M	73	1.000	23 Aug 2022	08:37 pm
73) 082366.D 2208301-003A	PCB_GC25_PEST_190228.M	74	1.000	23 Aug 2022	08:46 pm
74) 082367.D 2208288-001B	PCB_GC25_PEST_190228.M	75	1.000	23 Aug 2022	08:56 pm
75) 082368.D 2208288-002B	PCB_GC25_PEST_190228.M	76	1.000	23 Aug 2022	09:06 pm
76) 082369.D 2208288-003B	PCB_GC25_PEST_190228.M	77	1.000	23 Aug 2022	09:16 pm
77) 082370.D 2208288-004B	PCB_GC25_PEST_190228.M	78	1.000	23 Aug 2022	09:25 pm
78) 082371.D 2208288-005B	PCB_GC25_PEST_190228.M	79	1.000	23 Aug 2022	09:35 pm
79) 082372.D 2208288-006B	PCB_GC25_PEST_190228.M	80	1.000	23 Aug 2022	09:45 pm
80) 082373.D 2208288-007B	PCB_GC25_PEST_190228.M	81	1.000	23 Aug 2022	09:55 pm
81) 082374.D 2208288-008B	PCB_GC25_PEST_190228.M	82	1.000	23 Aug 2022	10:04 pm
82) 082375.D 2208288-009B	PCB_GC25_PEST_190228.M	83	1.000	23 Aug 2022	10:14 pm
83) 082376.D 2208288-010B	PCB_GC25_PEST_190228.M	84	1.000	23 Aug 2022	10:24 pm
84) 082377.D CO	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:34 pm
85) 082378.D CO	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:43 pm
86) 082379.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	23 Aug 2022	10:53 pm
87) 082404.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	24 Aug 2022	08:45 am
88) 082405.D 2208321-001A 100X	PCB_GC25_PEST_190228.M	59	1.000	24 Aug 2022	08:55 am
89) 082406.D 2208321-001A 100X	PCB_GC25_PEST_190228.M	85	1.000	24 Aug 2022	09:06 am
90) 082408.D 2208321-001A 200X	PCB_GC25_PEST_190228.M	86	1.000	24 Aug 2022	09:26 am
91) 082410.D 1660-CCV-tfm	PCB_GC25_PEST_190228.M	6	1.000	24 Aug 2022	09:46 am



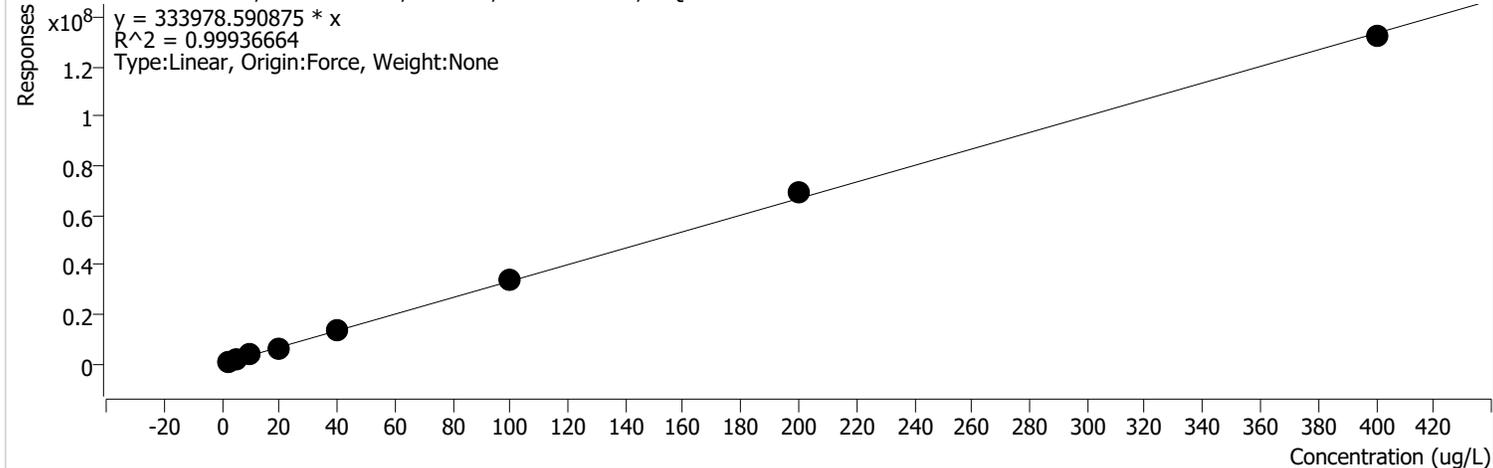
Calibration

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:33 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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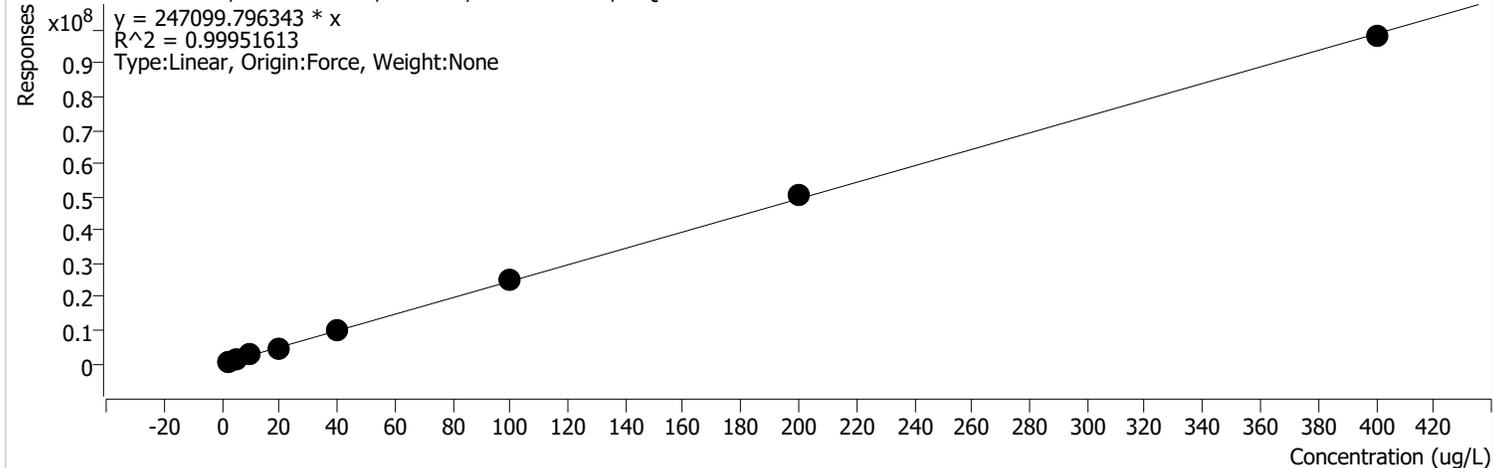
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	4013955	10.0000	401395.5 101	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5800560	20.0000	290027.9 938	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13242000	40.0000	331050.0 118	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34407320	100.0000	344073.2 038	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69115366	200.0000	345576.8 289	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132219389	400.0000	330548.4 713	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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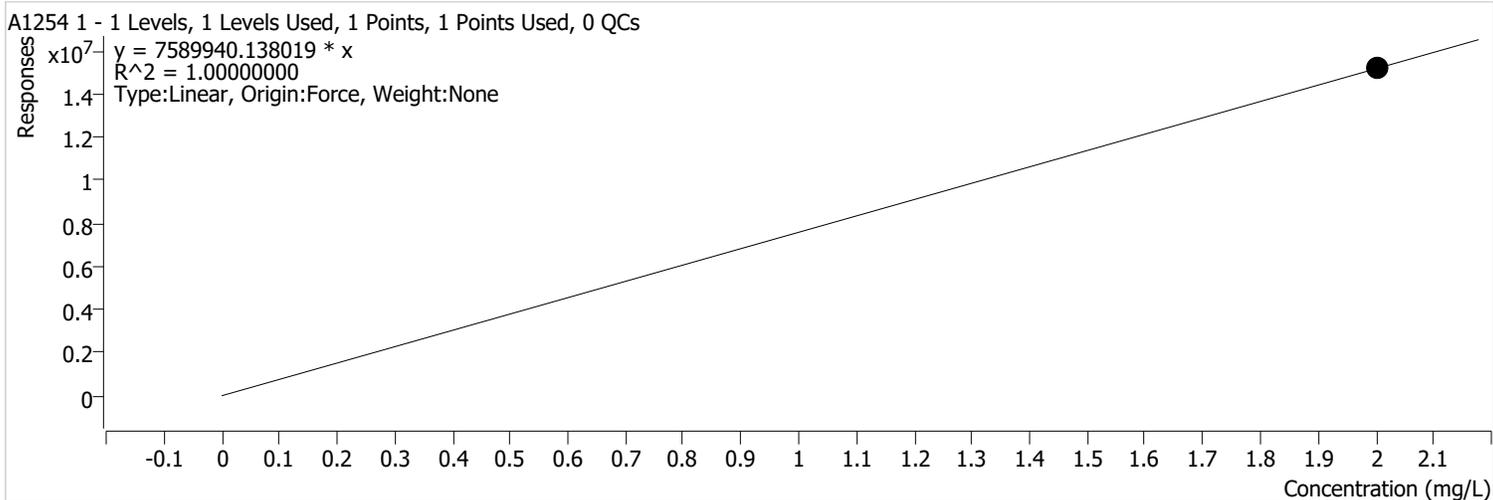


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D:\GC-25\Data\220413\041313.D	Calibration	2	x	1097830	5.0000	219566.0 924	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2963908	10.0000	296390.7 661	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4267578	20.0000	213378.9 026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9689080	40.0000	242226.9 948	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25213582	100.0000	252135.8 231	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50933338	200.0000	254666.6 921	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97999220	400.0000	244998.0 505	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
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Quant Batch Version	10.0		

A1254 1 %RSE =



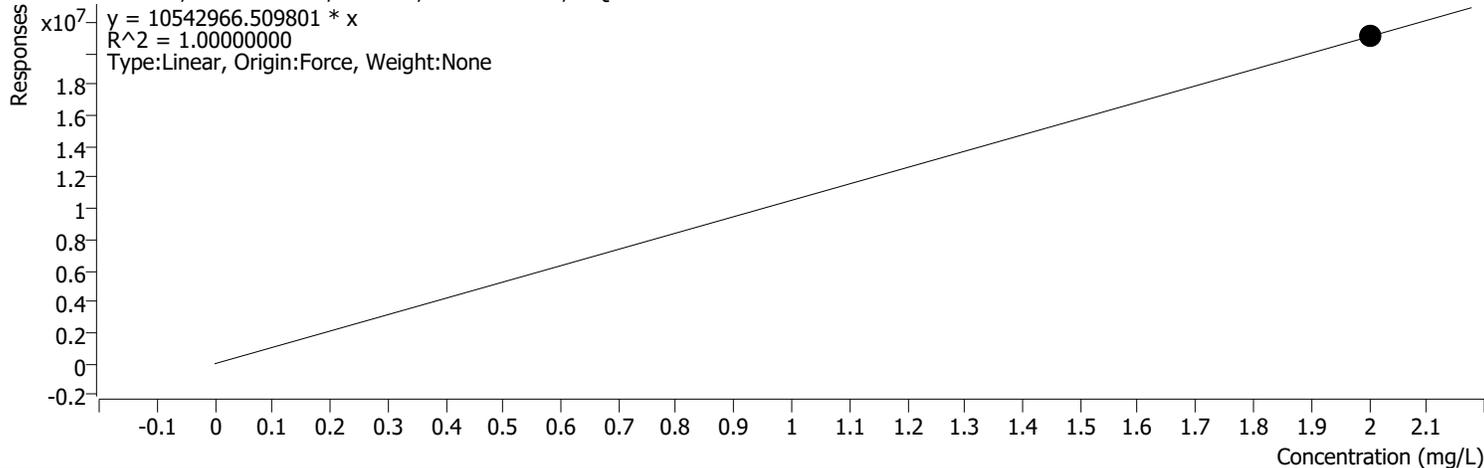
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

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A1254 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

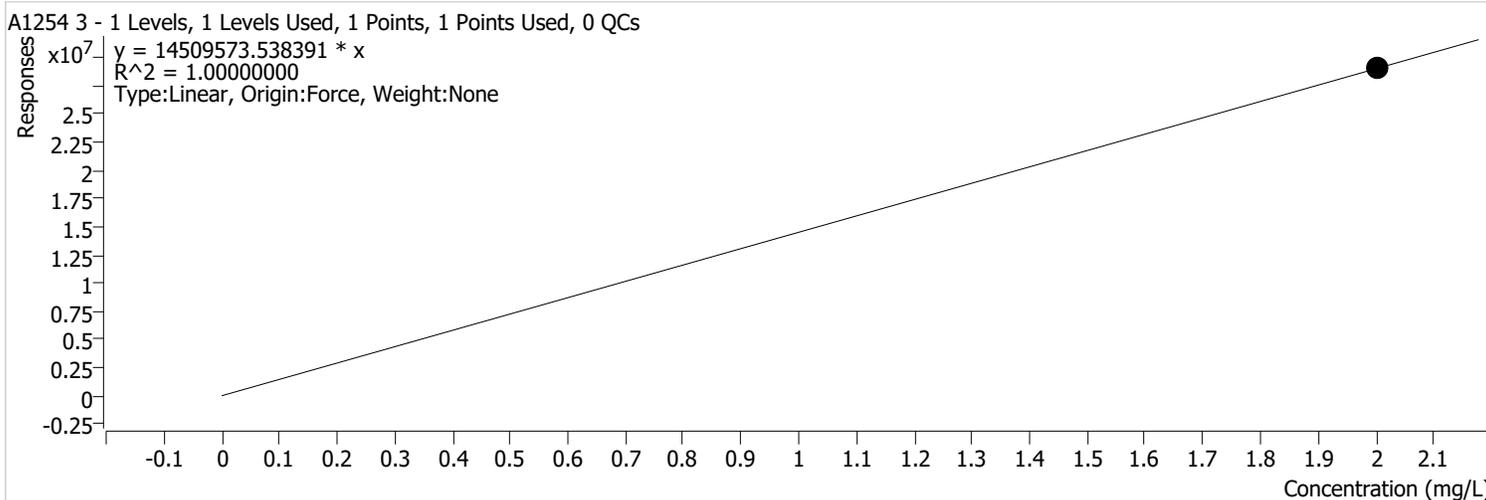


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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
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Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
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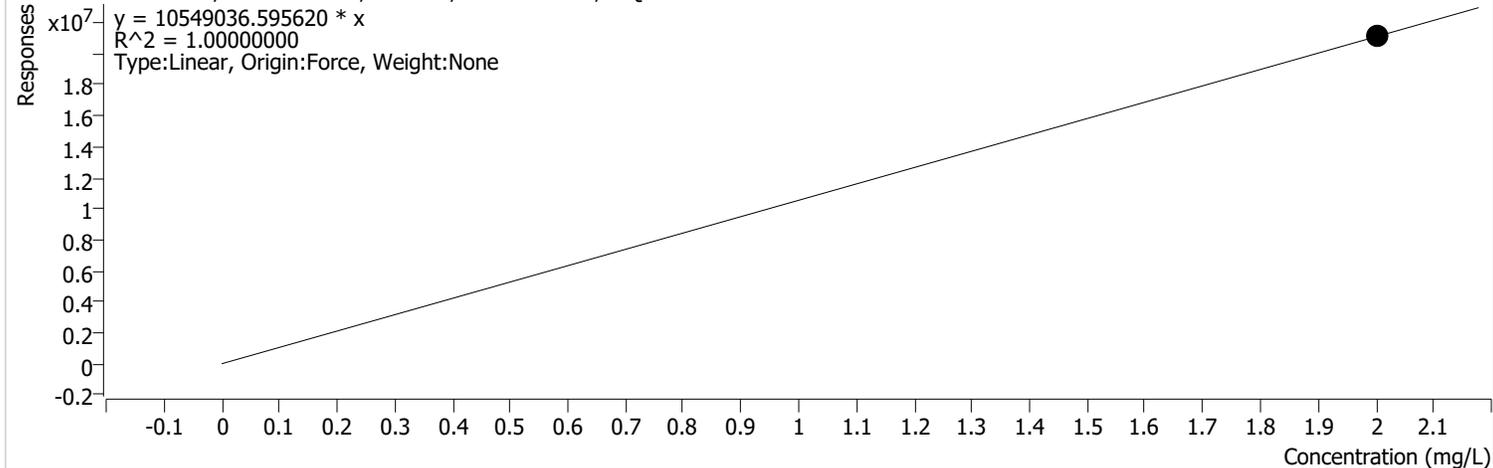
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

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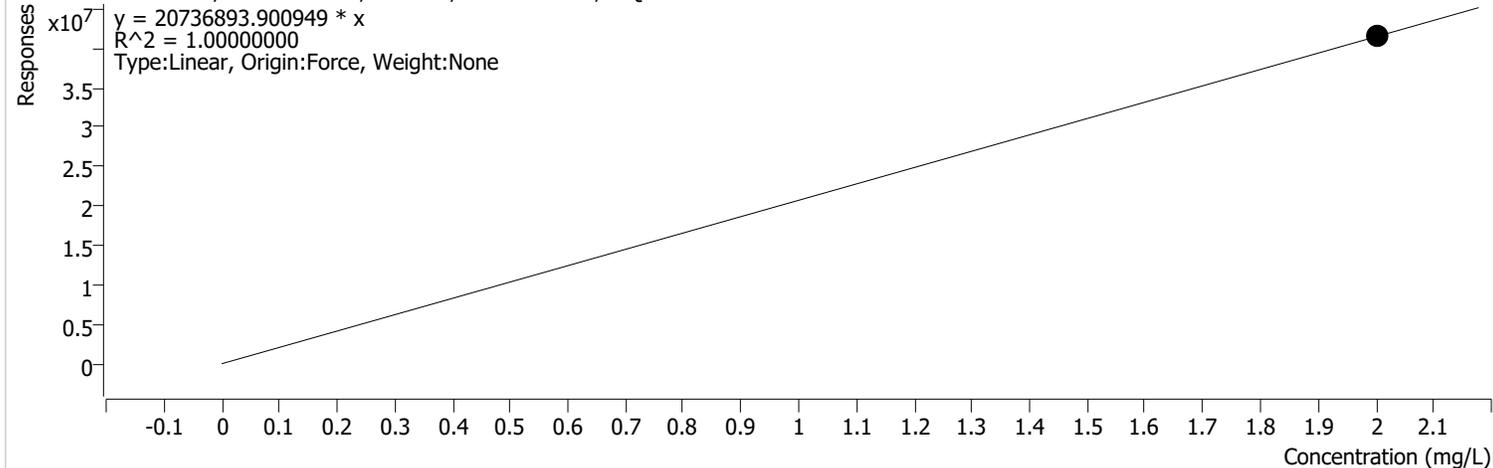
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
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Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
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Quant Batch Version	10.0		

A1254 2 2 %RSE =

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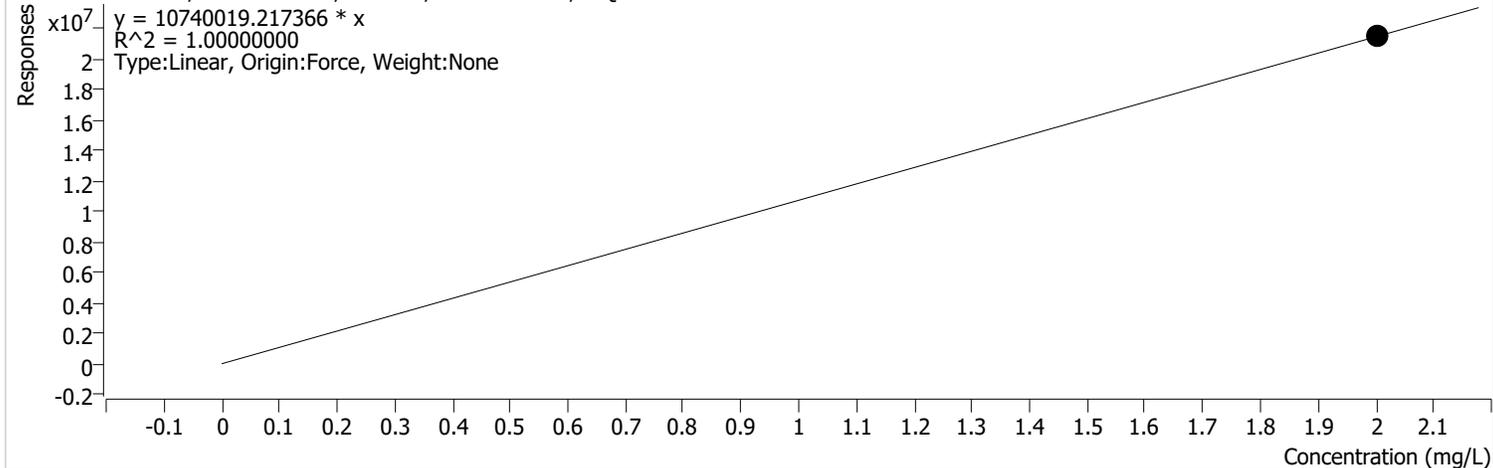
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
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Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 %RSE =

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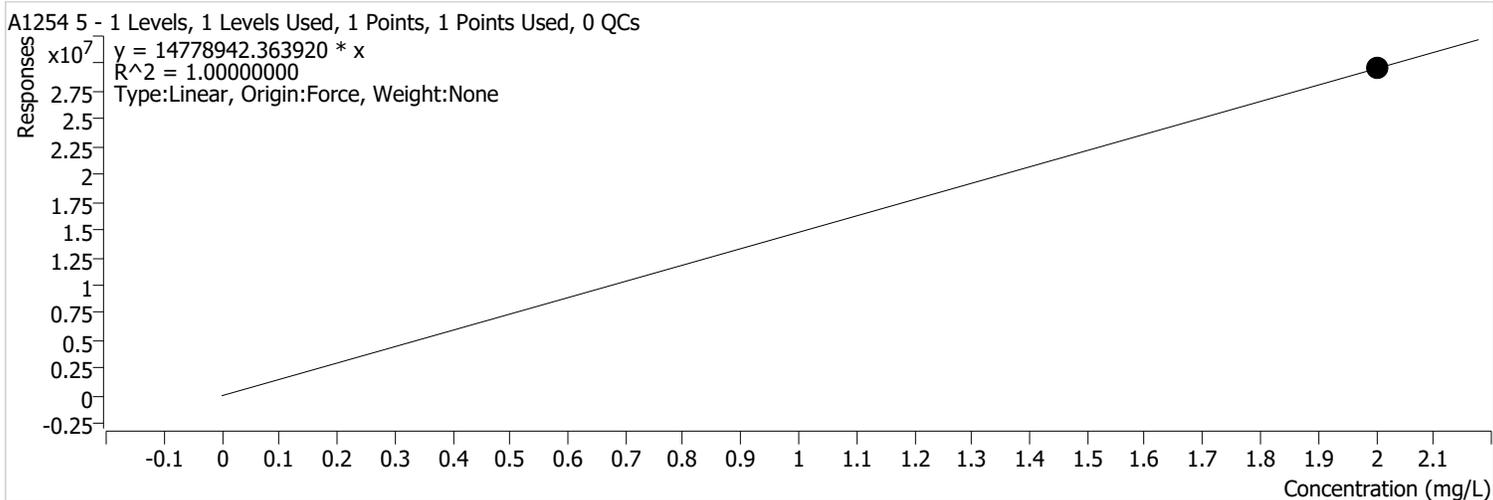


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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
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Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1254 5 %RSE =



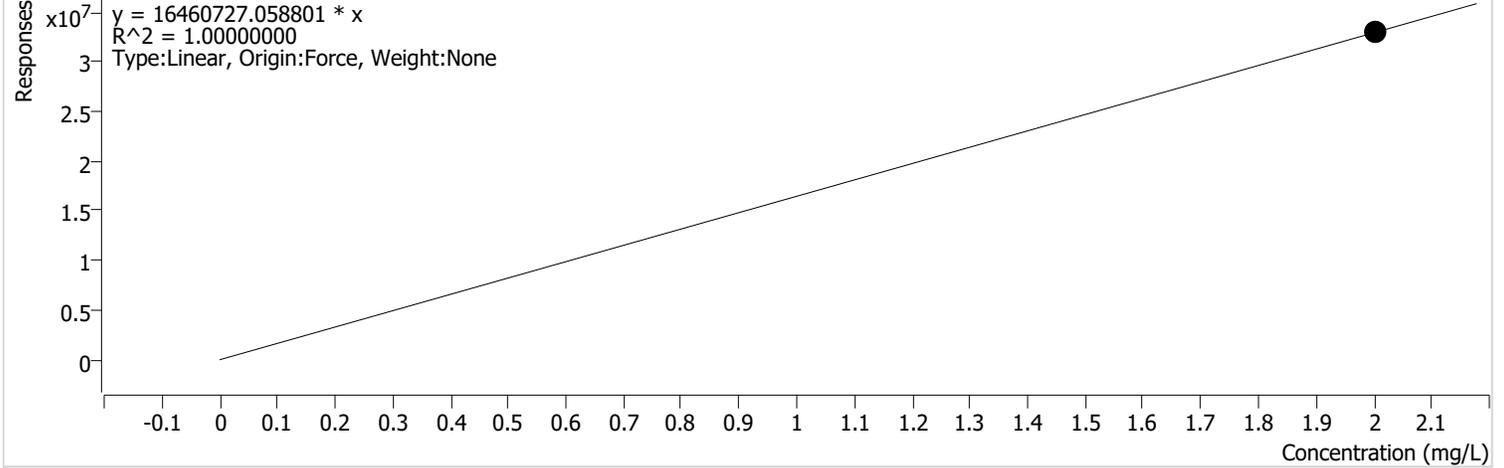
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Calibration Report

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Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 2 %RSE =

A1254 3 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



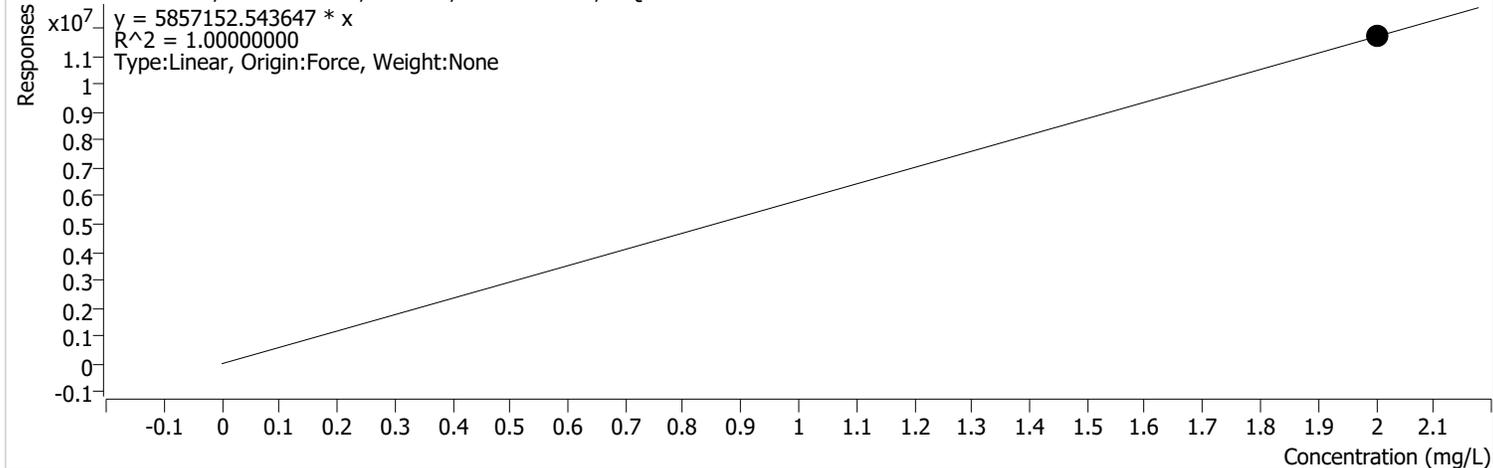
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Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
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Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
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Quant Batch Version	10.0		

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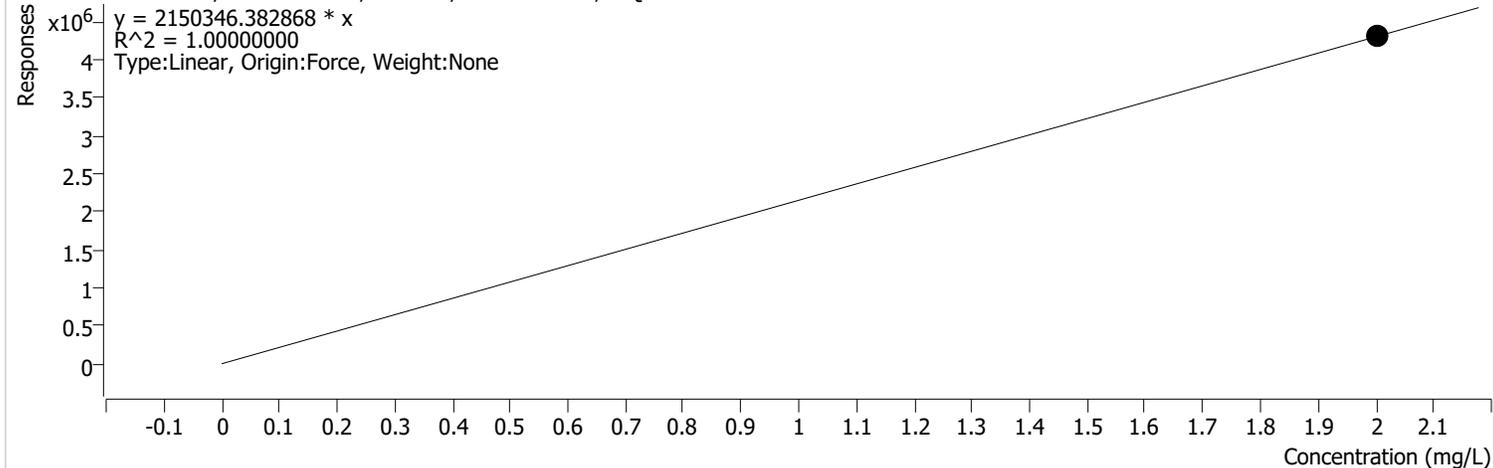
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	11714305	2.0000	5857152.5436	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 2 %RSE =

A1254 5 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



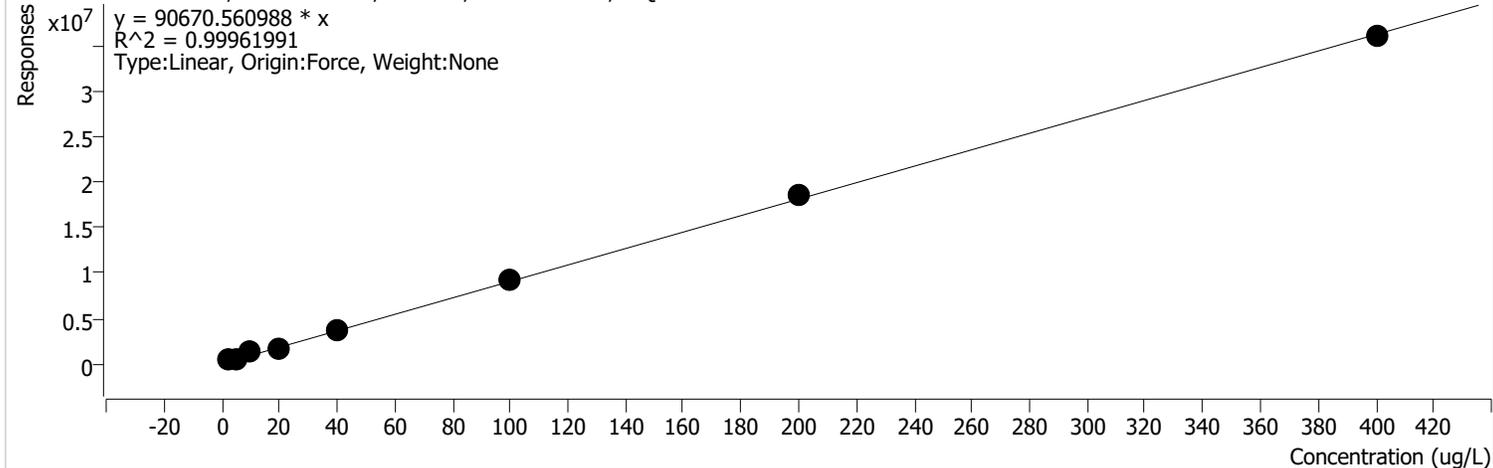
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	4300693	2.0000	2150346.3829	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



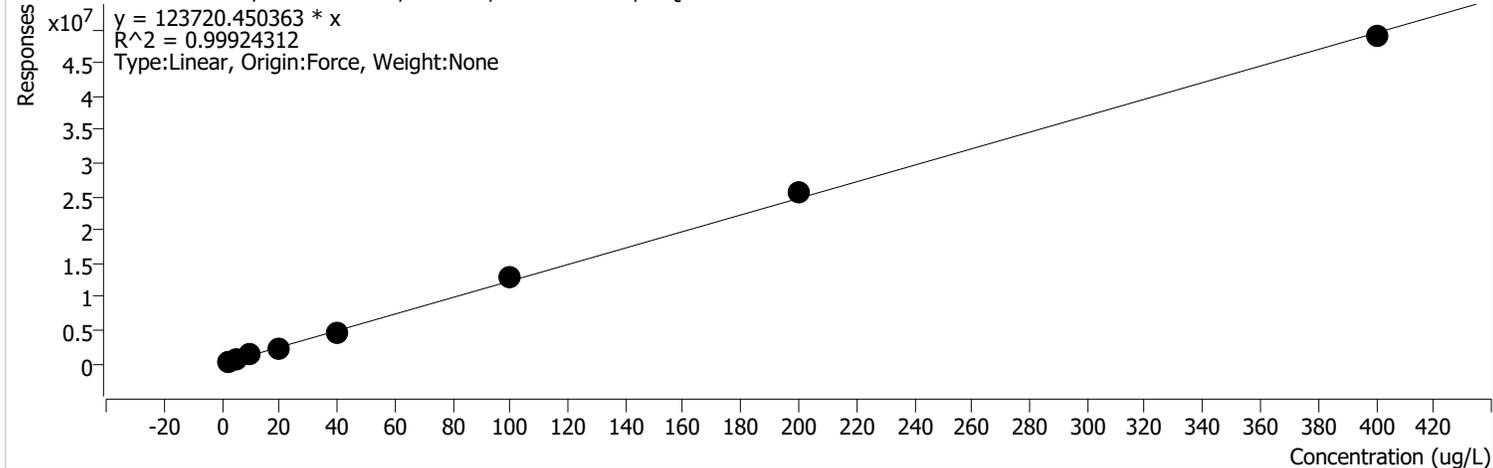
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	372999	2.5000	149199.5566	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	532640	5.0000	106527.9789	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1275338	10.0000	127533.8283	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1697421	20.0000	84871.0429	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3645921	40.0000	91148.0140	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9312484	100.0000	93124.8382	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18485909	200.0000	92429.5454	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36023737	400.0000	90059.3433	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



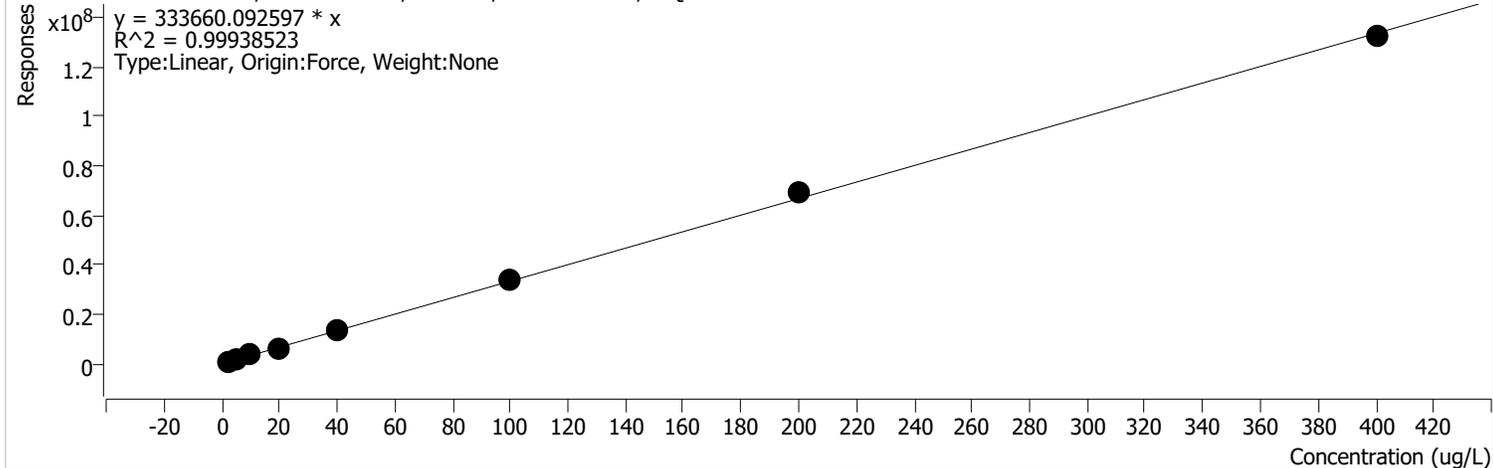
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	460776	2.5000	184310.5 735	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	694737	5.0000	138947.4 373	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1511942	10.0000	151194.1 657	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2393050	20.0000	119652.4 878	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4790557	40.0000	119763.9 356	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12993931	100.0000	129939.3 116	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25590904	200.0000	127954.5 211	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48920429	400.0000	122301.0 718	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:49 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX 2 %RSE = 12.5

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



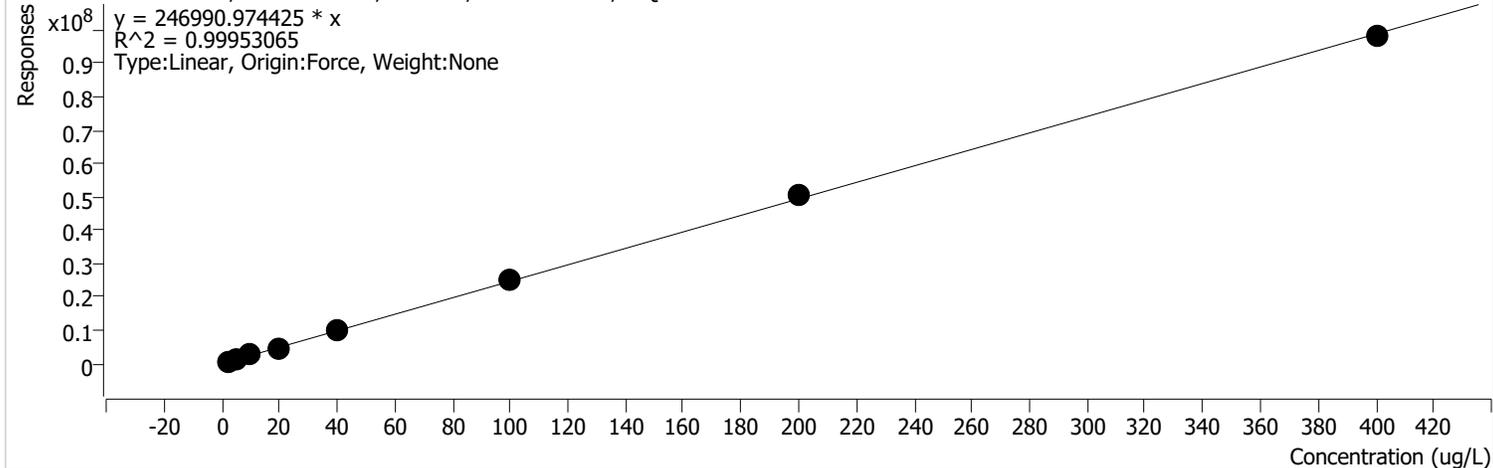
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	942622	2.5000	377048.6 158	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1423745	5.0000	284749.0 467	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	3945533	10.0000	394553.3 322	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5739991	20.0000	286999.5 489	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13192532	40.0000	329813.3 099	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34332107	100.0000	343321.0 719	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69021640	200.0000	345108.1 988	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132126905	400.0000	330317.2 632	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX %RSE = 13.0

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



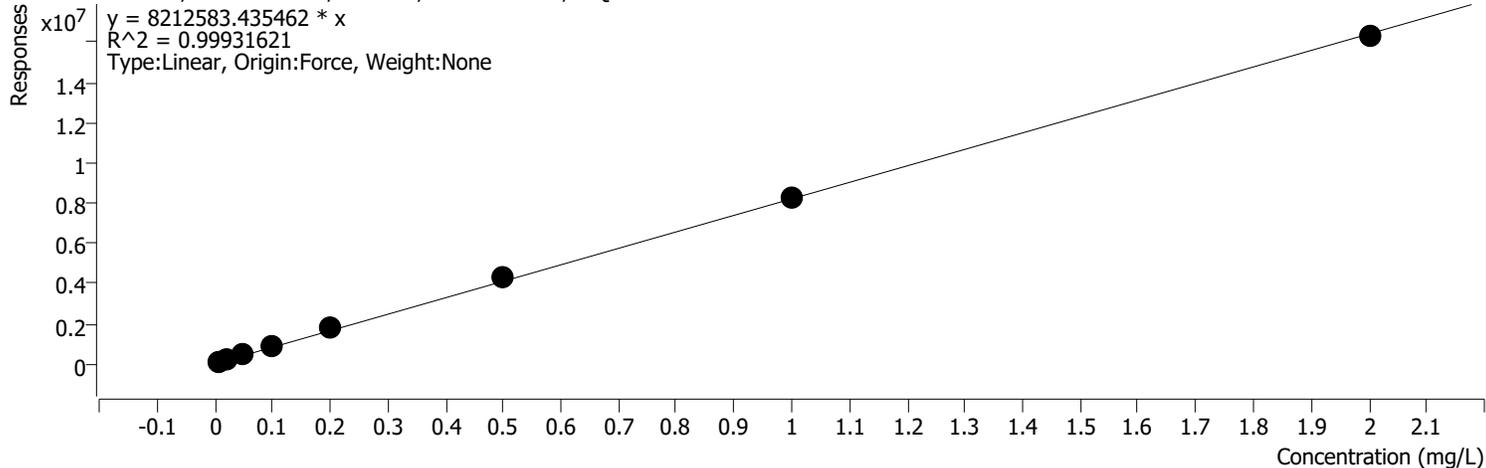
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	718542	2.5000	287416.8 121	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1076230	5.0000	215246.0 110	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2940074	10.0000	294007.3 579	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4252024	20.0000	212601.2 104	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9672795	40.0000	241819.8 869	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25186698	100.0000	251866.9 802	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50885755	200.0000	254428.7 745	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97975382	400.0000	244938.4 551	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 1 %RSE = 36.0

A1016 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



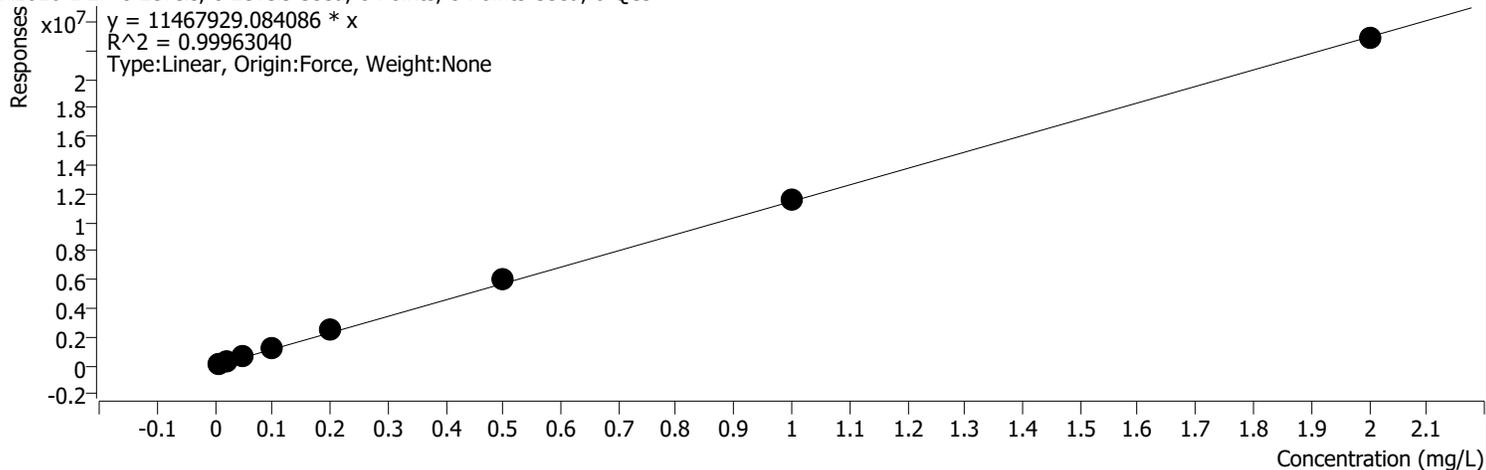
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	112110	0.0080	14013781.4463	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	228360	0.0200	11417984.2500	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	538830	0.0500	10776608.8616	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	906243	0.1000	9062427.8271	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1844640	0.2000	9223200.3259	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4334139	0.5000	8668278.7875	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	8321135	1.0000	8321135.1656	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	16285436	2.0000	8142717.8884	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 1 2 %RSE = 30.9

A1016 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

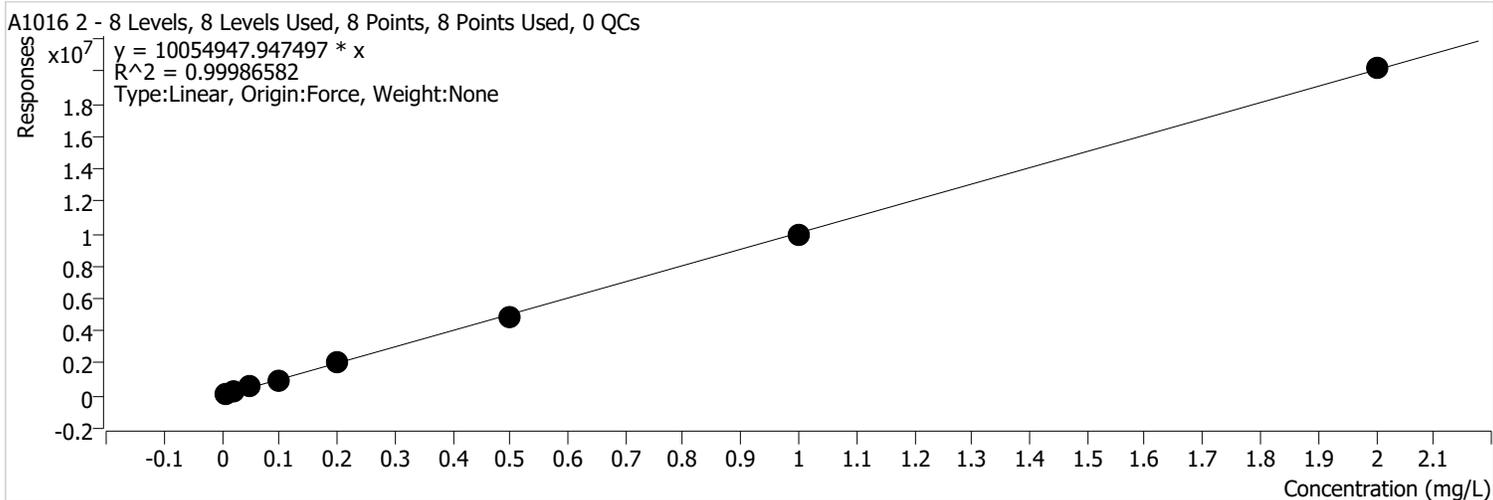


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	146540	0.0080	18317454 .5181	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	314450	0.0200	15722476 .0021	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	719764	0.0500	14395289 .9343	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1196078	0.1000	11960778 .5932	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2528109	0.2000	12640543 .7802	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5972564	0.5000	11945127 .8491	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11524790	1.0000	11524790 .3526	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22817132	2.0000	11408565 .9258	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 2 %RSE = 20.2



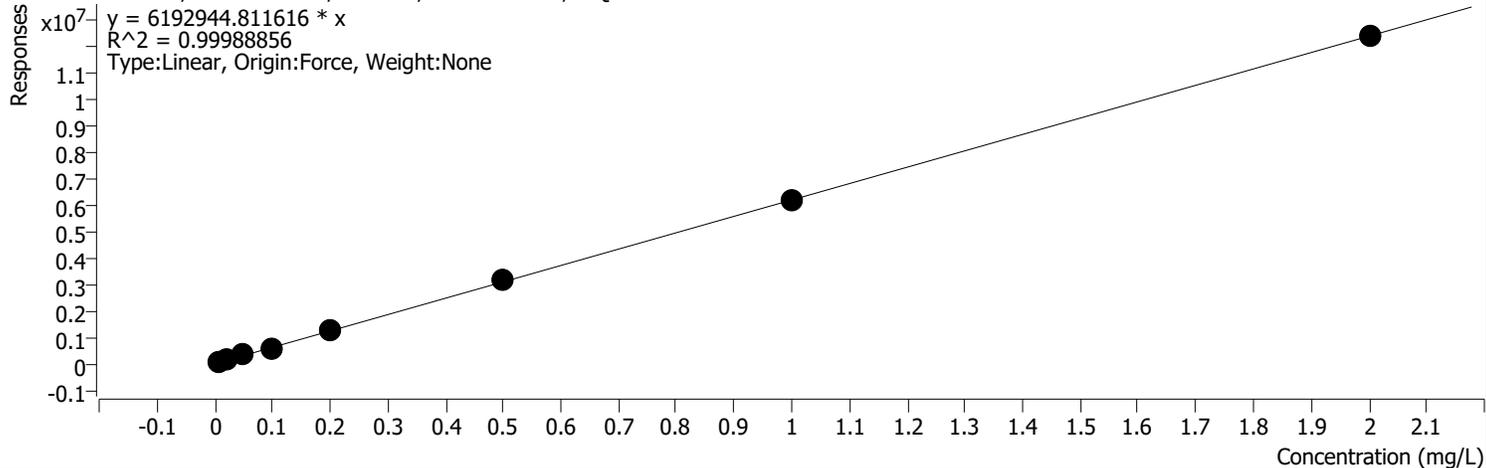
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	115750	0.0080	14468799 .7495	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	241308	0.0200	12065398 .1667	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	550702	0.0500	11014033 .0739	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	968767	0.1000	9687667. 1893	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2017646	0.2000	10088230 .0389	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4856074	0.5000	9712148. 7656	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9986204	1.0000	9986203. 8914	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	20186546	2.0000	10093273 .1965	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 3 %RSE = 26.1

A1016 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



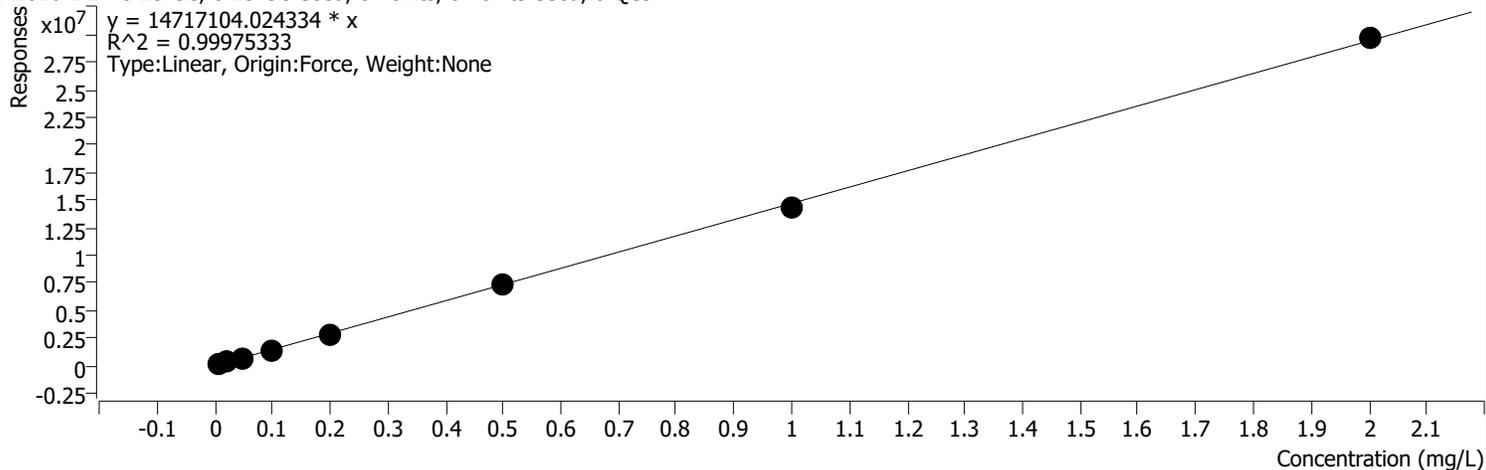
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	76620	0.0080	9577533.6478	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	157463	0.0200	7873160.7586	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	365761	0.0500	7315224.5937	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	617894	0.1000	6178942.0886	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1315605	0.2000	6578022.5000	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	3151570	0.5000	6303140.0194	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	6191061	1.0000	6191061.1351	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	12363578	2.0000	6181789.1603	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 2 2 %RSE = 14.9

A1016 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

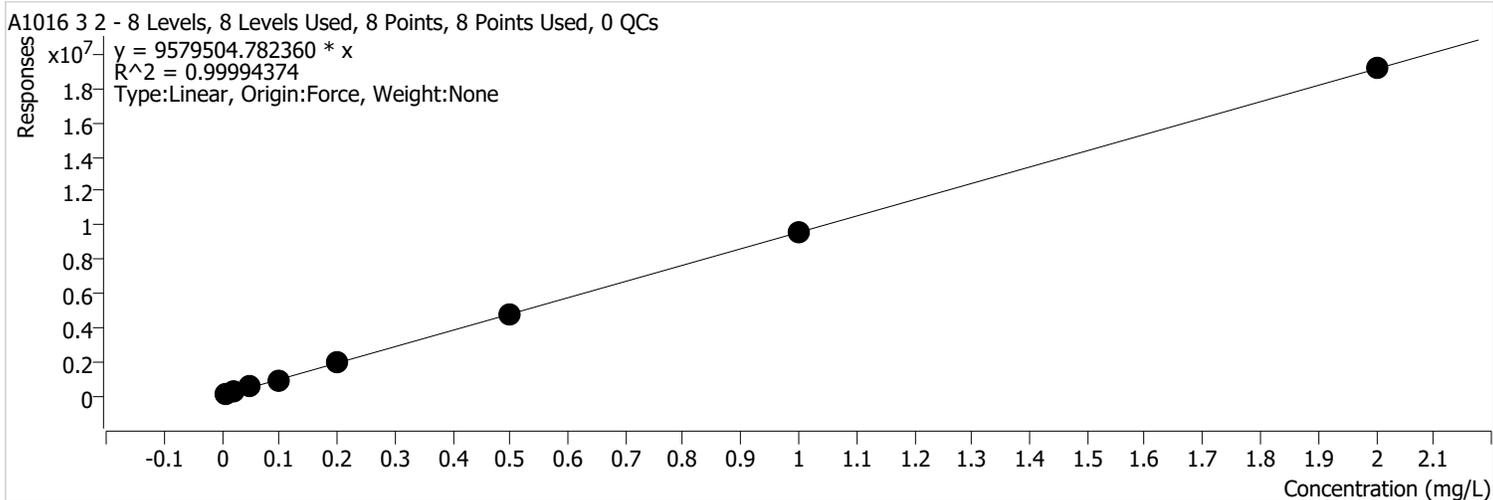


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	152811	0.0080	19101358 .1935	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	346952	0.0200	17347579 .9146	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	750232	0.0500	15004632 .4980	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1328864	0.1000	13288637 .4507	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2812118	0.2000	14060588 .2771	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	7248768	0.5000	14497536 .3852	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	14414980	1.0000	14414980 .3373	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	29631963	2.0000	14815981 .3465	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 3 2 %RSE = 24.9



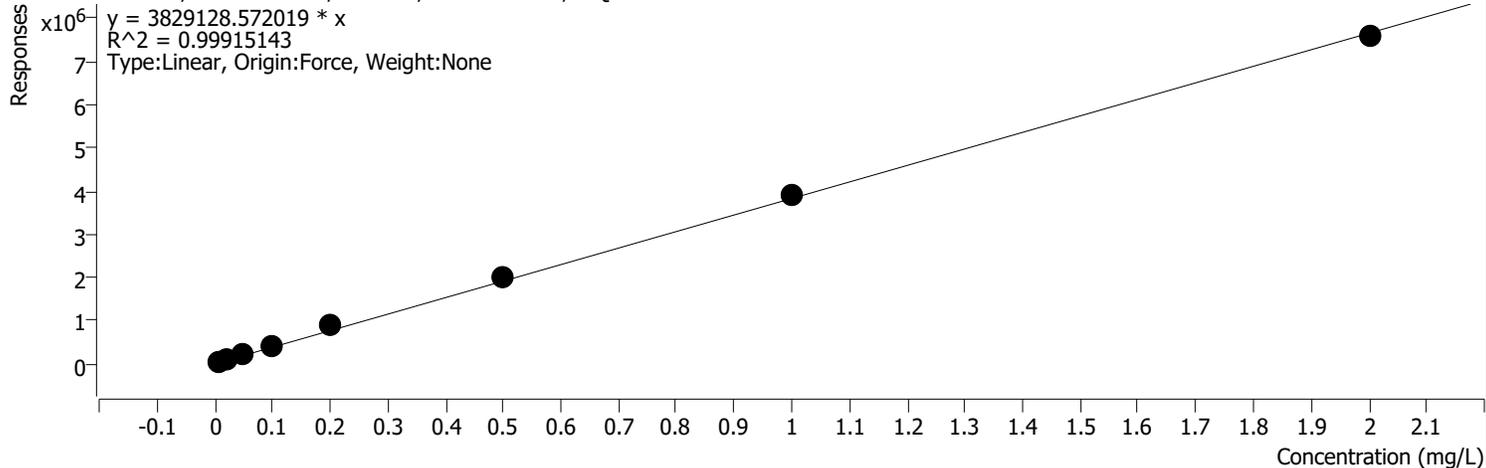
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	115625	0.0080	14453121.8336	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	247909	0.0200	12395460.0421	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	556230	0.0500	11124596.0286	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	937451	0.1000	9374505.8026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1978288	0.2000	9891439.0024	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4785802	0.5000	9571603.6591	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9531546	1.0000	9531546.0606	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	19176112	2.0000	9588056.1828	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 4 %RSE = 25.3

A1016 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

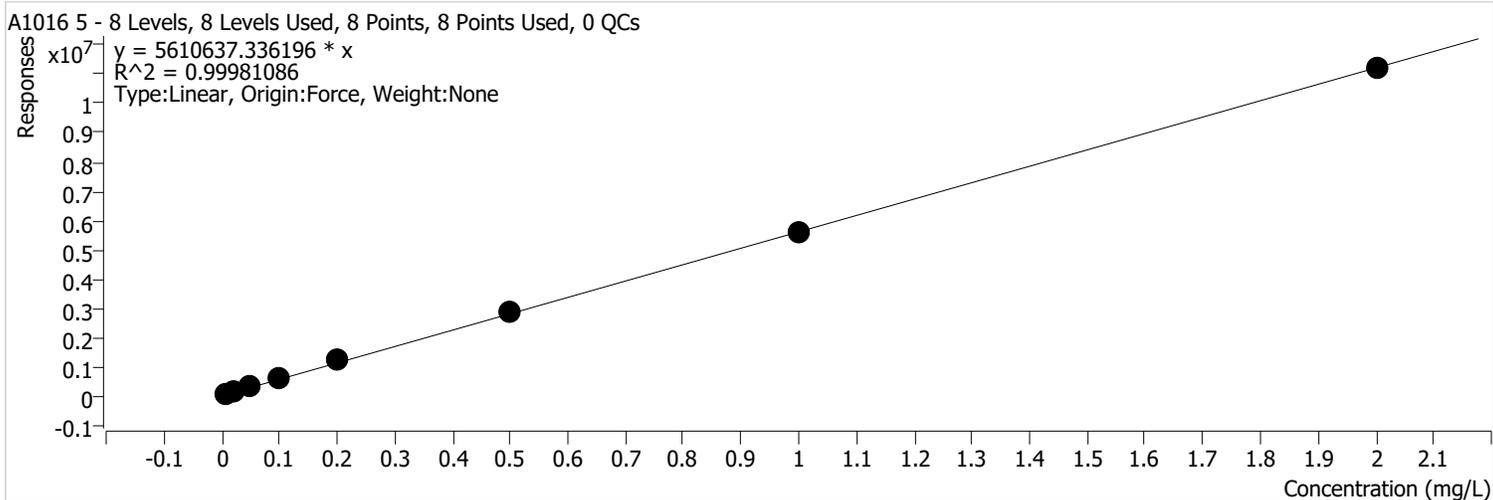


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	103817	0.0200	5190832.0083	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	241114	0.0500	4822287.9931	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	418325	0.1000	4183254.2306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	870501	0.2000	4352503.0115	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2028811	0.5000	4057622.6633	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	3908042	1.0000	3908042.4384	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	7576438	2.0000	3788218.9540	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 5 %RSE = 30.9



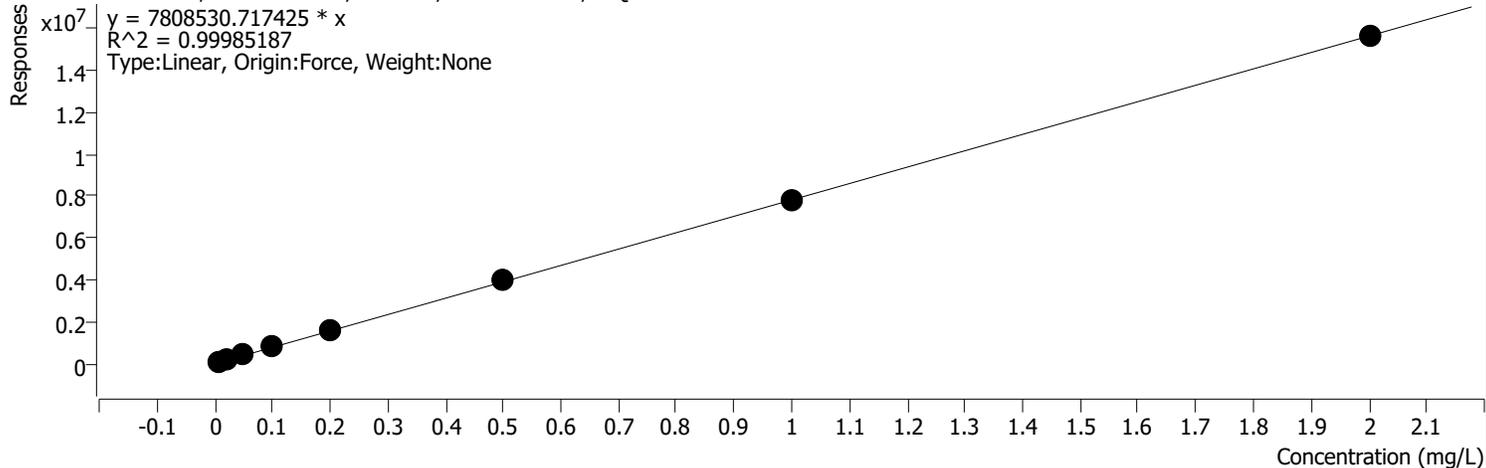
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	157227	0.0200	7861350.2778	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	336583	0.0500	6731663.9624	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	595368	0.1000	5953678.0652	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1201502	0.2000	6007509.0314	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2881876	0.5000	5763751.3420	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5607086	1.0000	5607085.7381	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	11192299	2.0000	5596149.5047	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 4 2 %RSE = 28.5

A1016 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



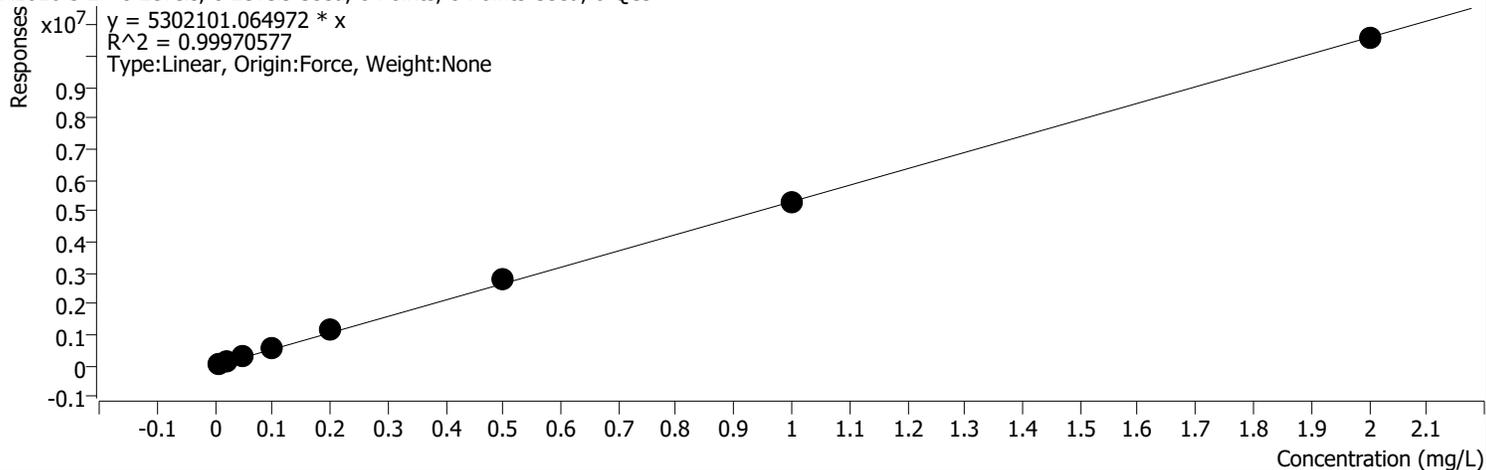
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	97458	0.0080	12182207.4799	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	212886	0.0200	10644280.1743	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	464327	0.0500	9286546.2687	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	805200	0.1000	8052004.0720	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1650348	0.2000	8251740.9091	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4009055	0.5000	8018109.5864	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	7793888	1.0000	7793888.4230	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	15585549	2.0000	7792774.5129	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 5 2 %RSE = 29.5

A1016 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



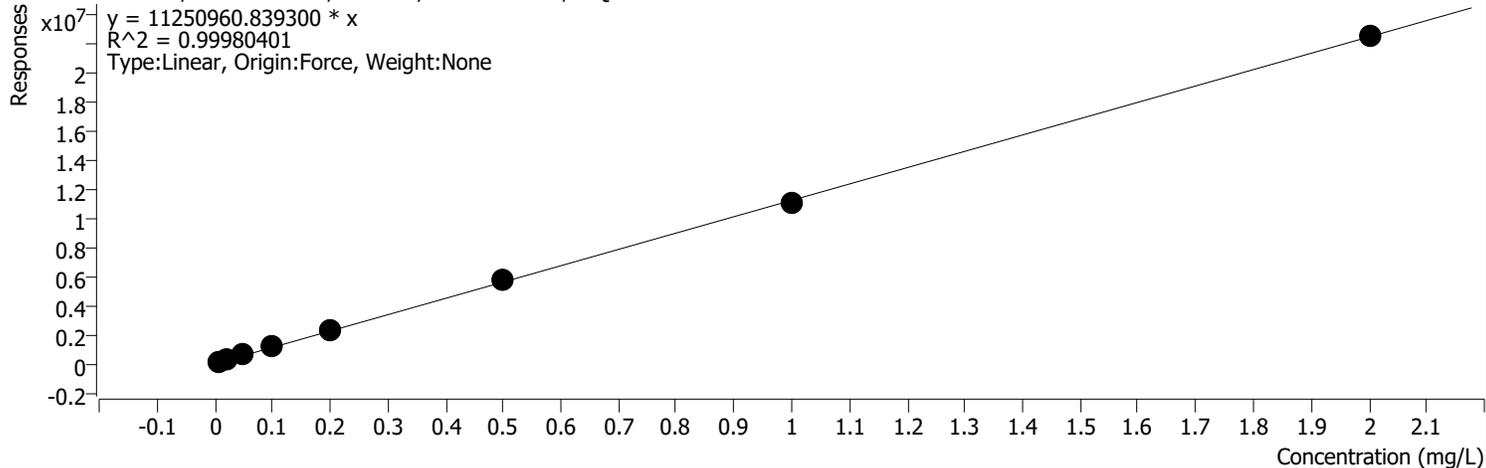
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	66077	0.0080	8259567.8283	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	147664	0.0200	7383184.6024	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	320733	0.0500	6414652.2730	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	558541	0.1000	5585413.6030	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1154657	0.2000	5773283.0442	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2756690	0.5000	5513380.5134	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5304163	1.0000	5304163.3206	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	10564019	2.0000	5282009.6621	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 %RSE = 34.1

A1260 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



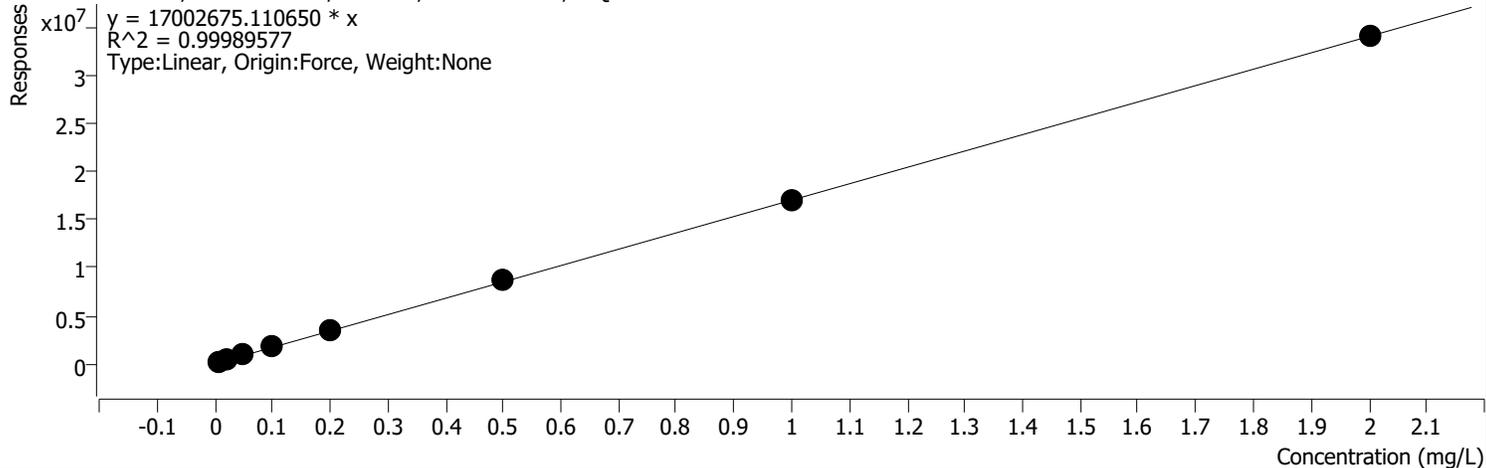
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	149994	0.0080	18749271 .7096	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	323996	0.0200	16199820 .7401	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	698311	0.0500	13966225 .3478	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1152714	0.1000	11527142 .0306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2357356	0.2000	11786779 .7966	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5775073	0.5000	11550146 .7760	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11119189	1.0000	11119188 .9754	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22513688	2.0000	11256844 .1424	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 %RSE = 36.7

A1260 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



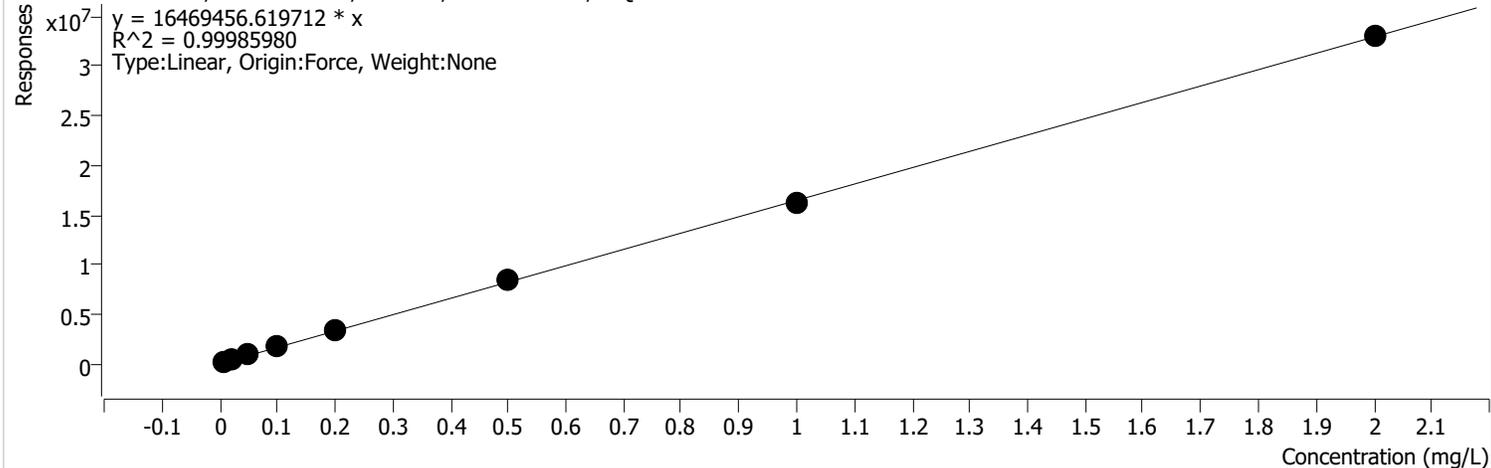
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	236310	0.0080	29538713 .6033	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	500993	0.0200	25049647 .1664	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1019787	0.0500	20395748 .7251	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1716673	0.1000	17166732 .2411	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3546553	0.2000	17732763 .7247	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8615685	0.5000	17231370 .0147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16960071	1.0000	16960071 .0329	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33976391	2.0000	16988195 .7248	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 2 %RSE = 35.2

A1260 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



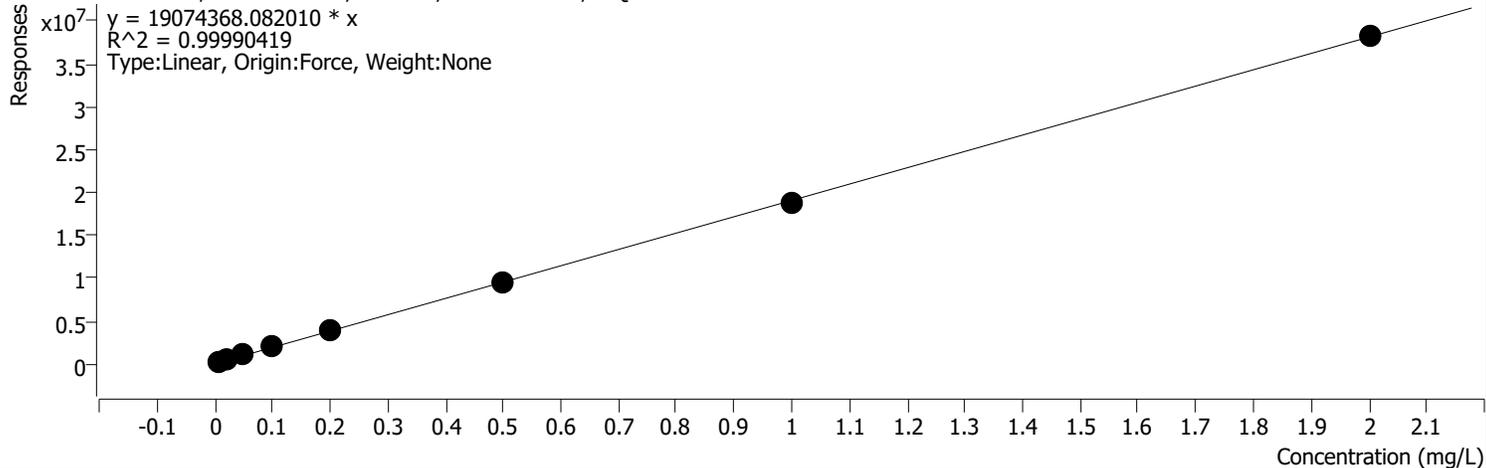
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	225835	0.0080	28229345 .7293	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	473063	0.0200	23653151 .5703	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	993964	0.0500	19879275 .1977	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1679623	0.1000	16796228 .8208	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3424692	0.2000	17123457 .6110	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8390744	0.5000	16781488 .4819	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16304297	1.0000	16304297 .3776	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32961700	2.0000	16480849 .8341	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 2 %RSE = 33.4

A1260 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



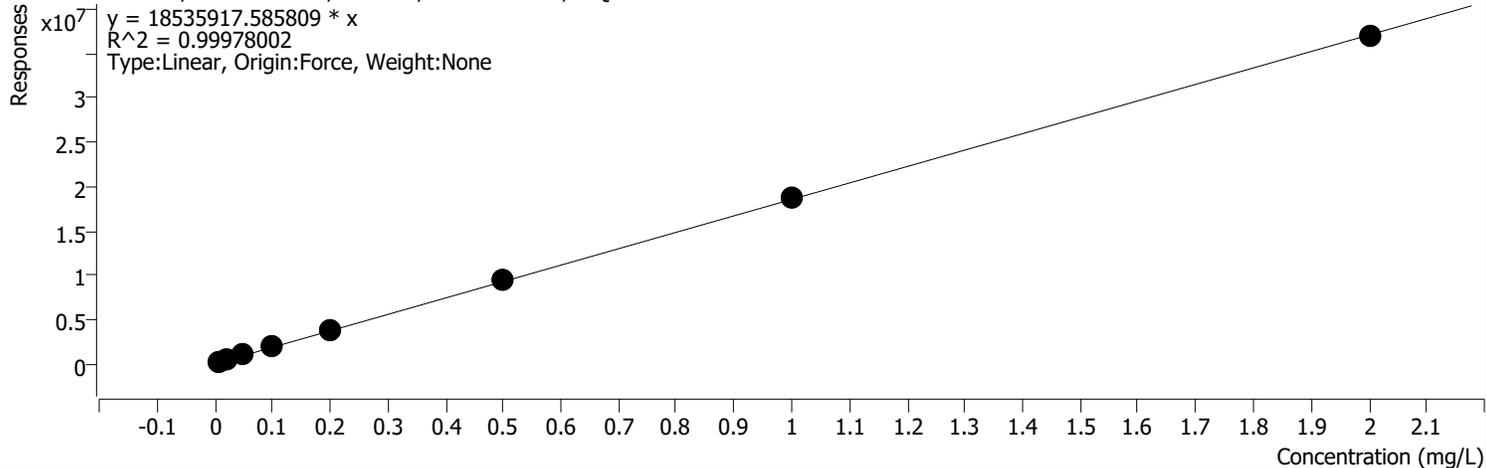
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	255701	0.0080	31962663 .8525	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	542396	0.0200	27119805 .6056	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1126306	0.0500	22526123 .9350	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1917763	0.1000	19177631 .9924	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3929096	0.2000	19645481 .8953	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9639218	0.5000	19278436 .7448	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18909963	1.0000	18909962 .6849	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	38187155	2.0000	19093577 .7381	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 3 %RSE = 38.4

A1260 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

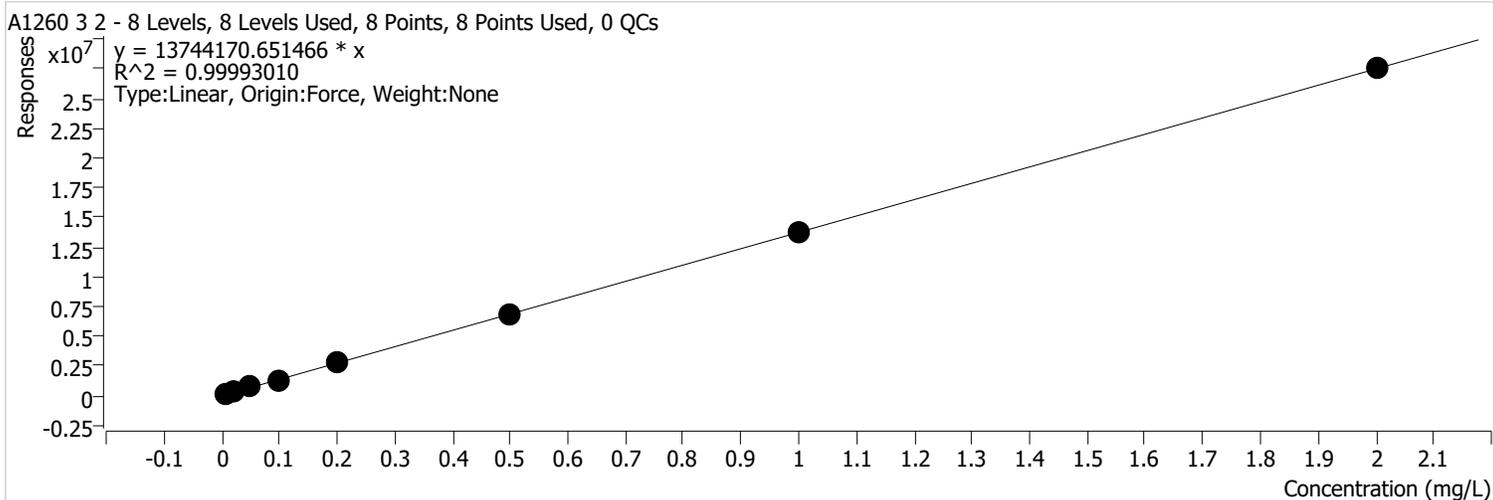


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	272241	0.0080	34030156 .8023	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	500600	0.0200	25030006 .2909	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1156654	0.0500	23133085 .3027	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1925978	0.1000	19259784 .4242	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3814063	0.2000	19070313 .6250	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9541649	0.5000	19083298 .9717	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18739557	1.0000	18739556 .5371	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36879745	2.0000	18439872 .3374	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 3 2 %RSE = 39.3



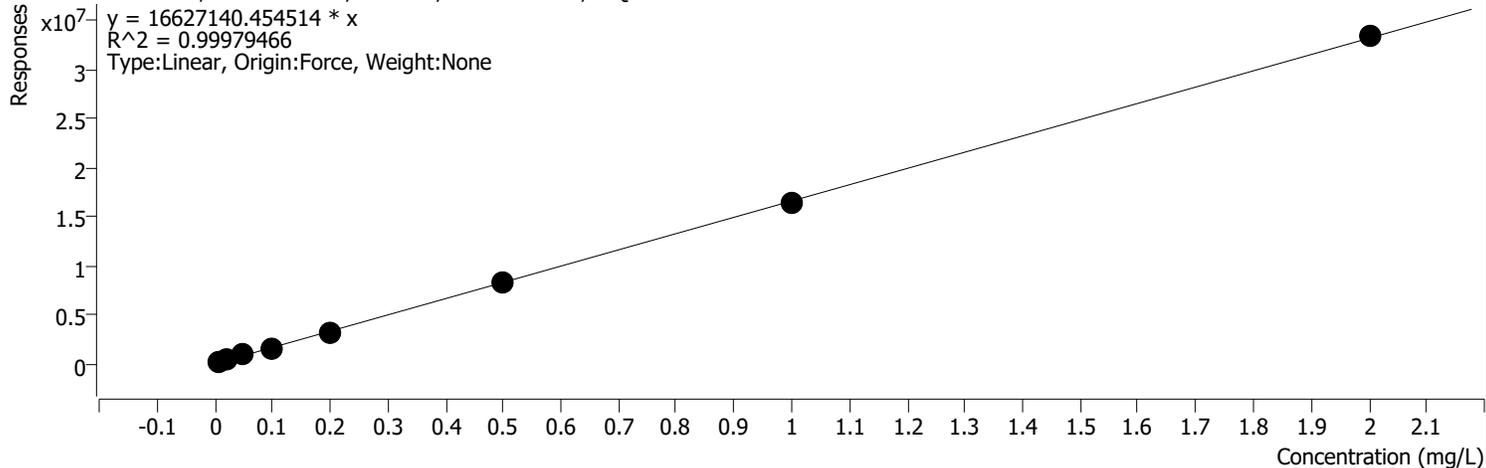
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	206214	0.0080	25776756 .3550	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	371692	0.0200	18584618 .6647	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	818370	0.0500	16367409 .0817	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1354862	0.1000	13548617 .7563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2787292	0.2000	13936459 .2534	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6925113	0.5000	13850226 .3000	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	13679146	1.0000	13679145 .8476	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	27500097	2.0000	13750048 .2804	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 2 %RSE = 43.6

A1260 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



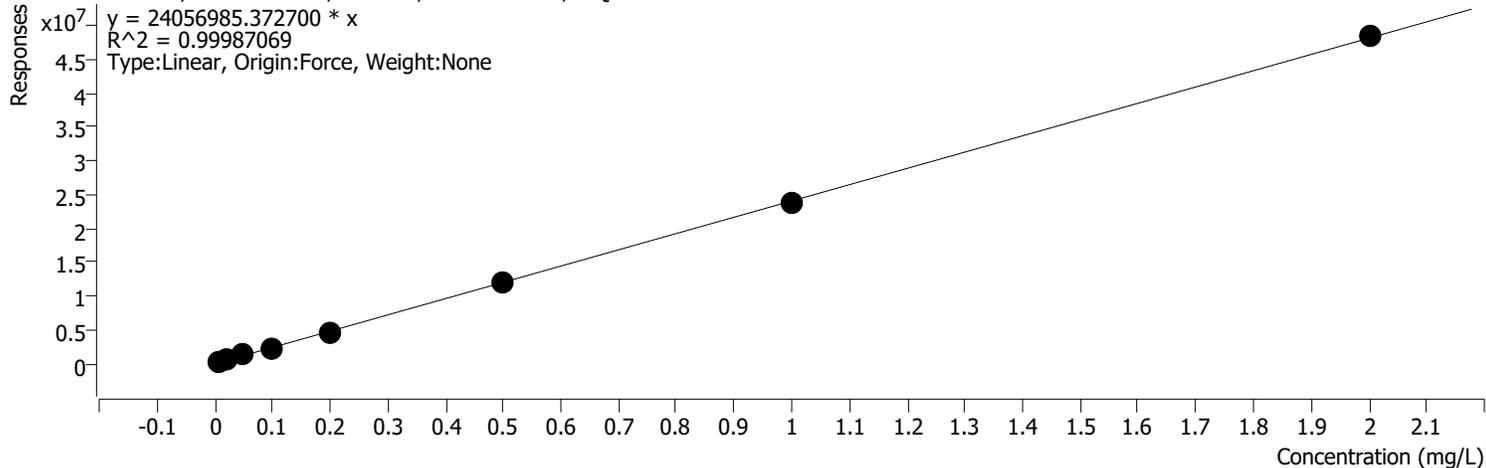
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	257196	0.0080	32149478 .1844	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	499048	0.0200	24952376 .0327	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	920835	0.0500	18416709 .2506	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1538572	0.1000	15385723 .1771	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3271131	0.2000	16355654 .4415	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8360699	0.5000	16721398 .1153	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16312487	1.0000	16312486 .7557	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33407064	2.0000	16703531 .8173	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 %RSE = 27.2

A1260 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



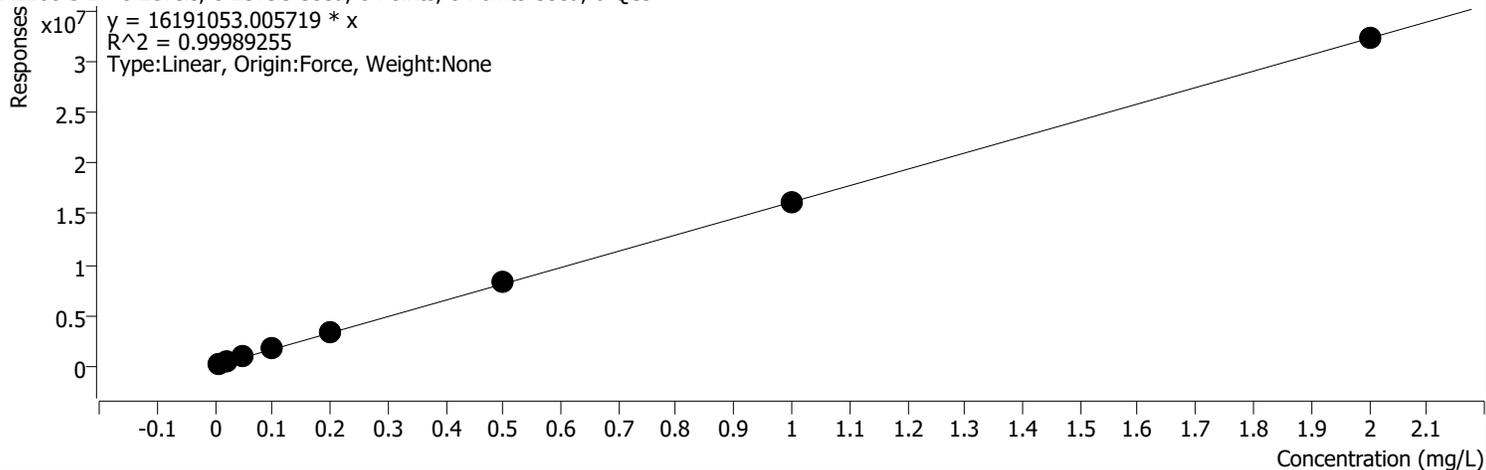
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	302335	0.0080	37791889 .8304	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	635074	0.0200	31753711 .4892	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1325475	0.0500	26509500 .0429	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2255490	0.1000	22554902 .1708	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4673162	0.2000	23365812 .4842	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	11932738	0.5000	23865475 .3147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	23722477	1.0000	23722477 .1145	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48321453	2.0000	24160726 .5000	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 2 %RSE = 34.2

A1260 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



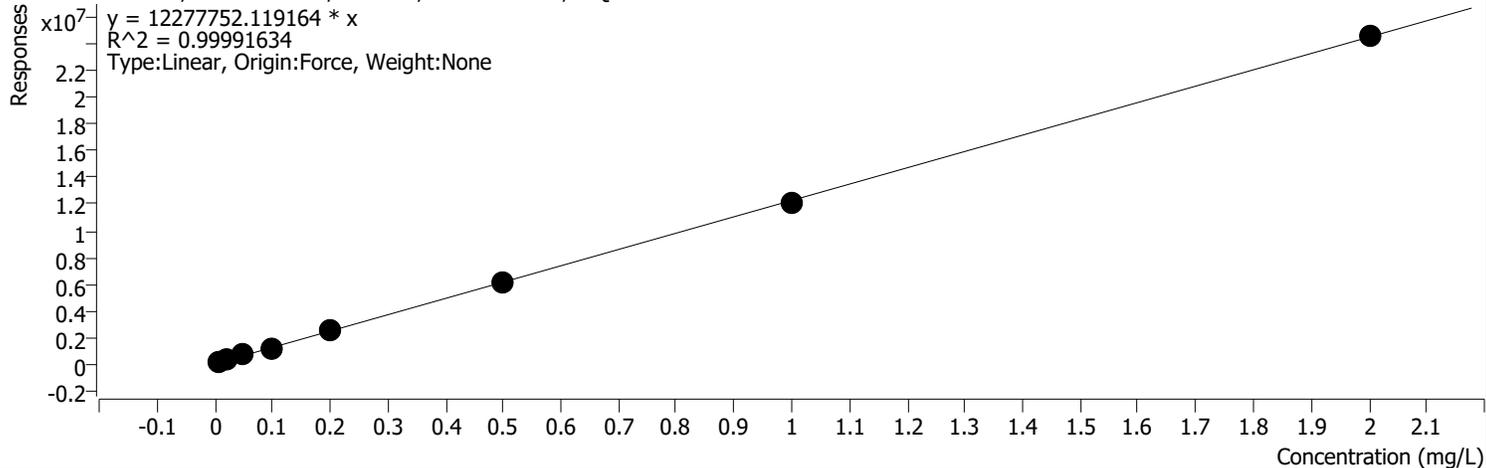
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	218868	0.0080	27358490 .7810	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	463500	0.0200	23174979 .8702	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	963871	0.0500	19277428 .8469	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1625067	0.1000	16250670 .2563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3356413	0.2000	16782063 .2985	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8258079	0.5000	16516158 .5250	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16139707	1.0000	16139706 .9310	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32349410	2.0000	16174705 .2268	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 %RSE = 32.4

A1260 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



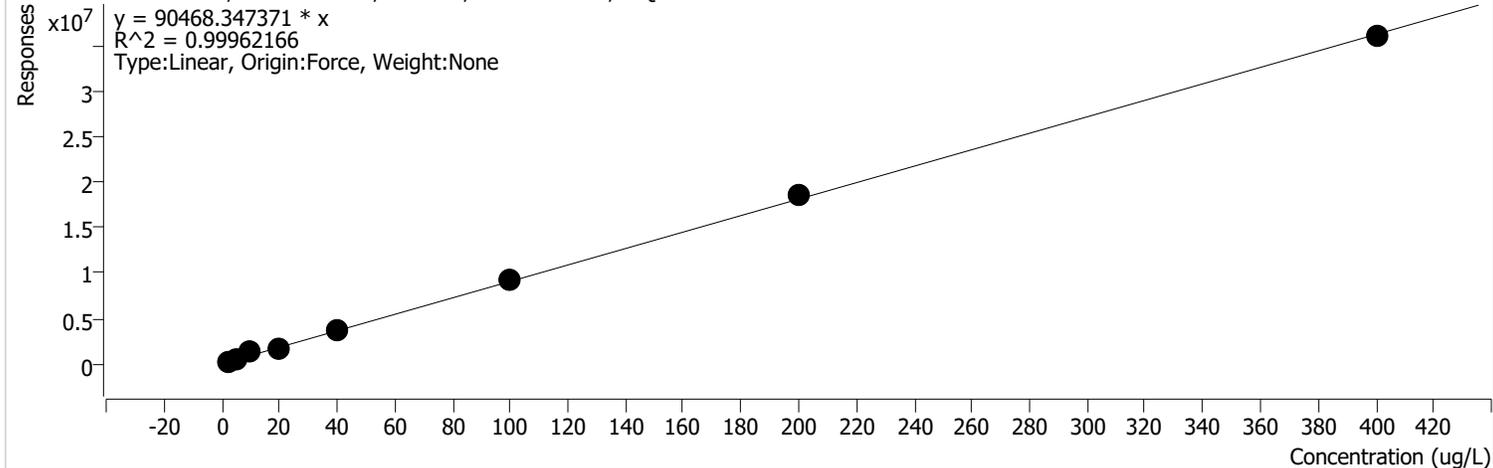
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	164480	0.0080	20559977 .6346	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	339968	0.0200	16998406 .3828	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	716937	0.0500	14338747 .3557	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1224889	0.1000	12248893 .3709	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2489281	0.2000	12446404 .0927	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6210873	0.5000	12421746 .4337	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	12169224	1.0000	12169223 .8748	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	24584755	2.0000	12292377 .4597	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE = 24.9

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



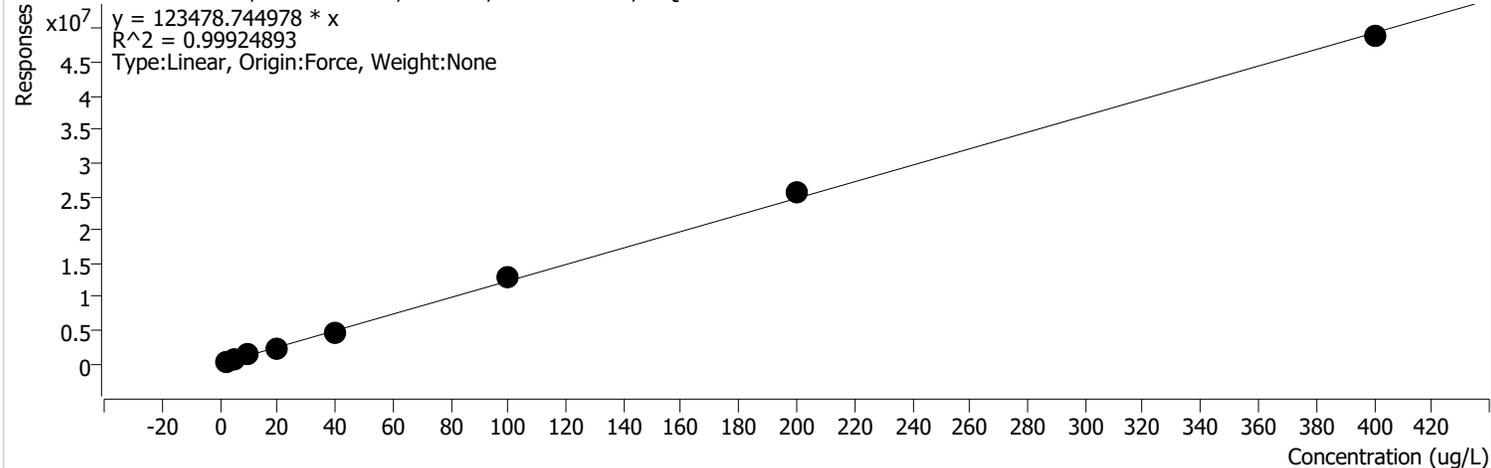
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	326338	2.5000	130535.1 330	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	503182	5.0000	100636.4 120	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1263808	10.0000	126380.7 630	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1687684	20.0000	84384.20 79	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3646289	40.0000	91157.22 85	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9307724	100.0000	93077.23 81	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18453061	200.0000	92265.30 52	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	35935510	400.0000	89838.77 46	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP 2 %RSE = 21.7

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	451184	2.5000	180473.5 958	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	684257	5.0000	136851.4 754	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1513577	10.0000	151357.7 002	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2397630	20.0000	119881.5 211	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4770866	40.0000	119271.6 475	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12924698	100.0000	129246.9 796	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25564453	200.0000	127822.2 641	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48824670	400.0000	122061.6 744	

PCB Calibration

Date: 04/08/22 Cal Std (1016/1260): 26765 Concentration: 100 ug/mL
 Analyst: Sam Vapoi ICV Std (SS): 26724 Concentration: 100 ug/mL
 Aroclors: 1221: 20519 1232: 23017 1242: 23020 1248: 23021
 1254: 23A86 1262: 23022 1268: 20520 Conc: 1000 ug/mL
 Hexane: 6799 SURROGATE: 26572 Concentration: 20 ug/mL

Calibration Point (ppb)	Surr Cal Pt (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
2000	400	960	Cal Std	20	20	1	
1000	200	980	Cal Std	10	10	1	
500	100	990	Cal Std	5	5	1	
200	40	900	2000*	100	--	1	*Points 200, 100, and 50 will be made with prepared Point 2000
100	20	950	2000*	50	--	1	
50	10	975	2000*	25	--	1	
20	(5)	900	200**	100	--	1	**Points 20 and 10 will be made with prepared Point 200
10 8	(2.5)	950	200**	50 40	--	1	
ICB 82-041061 22	200	990	--	-- 82-041061 10	10	1	
ICV (1000 ppb)	200	980	ICV	10	10	1	

Note: Points 20 and 10 will contain surrogate as they are prepared from a mixed std, but will not be included in the surr curve.

Single Point Aroclors

Calibration Point	Surr Conc (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol (mL)	Comments
2000	200	988	Each Aroclor	2	10	1	

Signature and Date: Sam Vapoi 04/08/22



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

Shannon & Wilson

Ryan Peterson
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: 8801 Excavations
Work Order Number: 2208415

August 30, 2022

Attention Ryan Peterson:

Fremont Analytical, Inc. received 18 sample(s) on 8/26/2022 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B

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,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

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CLIENT: Shannon & Wilson
Project: 8801 Excavations
Work Order: 2208415

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208415-001	A4-SIDE171:2	08/26/2022 10:15 AM	08/26/2022 4:49 PM
2208415-002	A4-SIDE171:6	08/26/2022 10:20 AM	08/26/2022 4:49 PM
2208415-003	A4-SIDE172:2	08/26/2022 11:40 AM	08/26/2022 4:49 PM
2208415-004	A4-SIDE172:6	08/26/2022 11:45 AM	08/26/2022 4:49 PM
2208415-005	A4-SIDE219:2	08/26/2022 12:00 PM	08/26/2022 4:49 PM
2208415-006	A4-SIDE173:2	08/26/2022 1:30 PM	08/26/2022 4:49 PM
2208415-007	A4-SIDE173:6	08/26/2022 1:35 PM	08/26/2022 4:49 PM
2208415-008	A4-SIDE174:2	08/26/2022 1:40 PM	08/26/2022 4:49 PM
2208415-009	A4-SIDE174:6	08/26/2022 1:43 PM	08/26/2022 4:49 PM
2208415-010	A4-SIDE174:7	08/26/2022 1:45 PM	08/26/2022 4:49 PM
2208415-011	A4-SIDE175:2	08/26/2022 2:25 PM	08/26/2022 4:49 PM
2208415-012	A4-SIDE175:6	08/26/2022 2:27 PM	08/26/2022 4:49 PM
2208415-013	A4-SIDE176:2	08/26/2022 3:15 PM	08/26/2022 4:49 PM
2208415-014	A4-SIDE176:6	08/26/2022 3:17 PM	08/26/2022 4:49 PM
2208415-015	A4-SIDE176:7	08/26/2022 3:20 PM	08/26/2022 4:49 PM
2208415-016	A4-SIDE220:2	08/26/2022 4:00 PM	08/26/2022 4:49 PM
2208415-017	A5-SIDE20:2	08/26/2022 3:25 PM	08/26/2022 4:49 PM
2208415-018	A5-SIDE20:6	08/26/2022 3:30 PM	08/26/2022 4:49 PM

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

CLIENT: Shannon & Wilson**Project:** 8801 Excavations

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 (2208415-001A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-002A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-003A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-004A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-005A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-006A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-007A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-008A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-009A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-010A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-011A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-012A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-013A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-014A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-015A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-016A) required Acid Cleanup Procedure (Using Method No 3665A).

CLIENT: Shannon & Wilson**Project:** 8801 Excavations

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-018A) required Acid Cleanup Procedure (Using Method No 3665A).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-018A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-016A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-015A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-014A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-013A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-012A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-011A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-010A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-009A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-008A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-007A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-006A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-005A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-004A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-003A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-002A) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-S), SAMPLE (2208415-001A) required Florisil Cleanup Procedure (Using Method No 3620C).

Qualifiers:

- * - Associated LCS is outside of 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 Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Method Detection Limit
- R - High relative percent difference observed

Acronyms:

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



Client: Shannon & Wilson

Collection Date: 8/26/2022 10:15:00 AM

Project: 8801 Excavations

Lab ID: 2208415-001

Matrix: Soil

Client Sample ID: A4-SIDE171:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0502	0.00809		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1221	ND	0.0502	0.00809		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1232	ND	0.0502	0.00809		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1242	ND	0.0502	0.00809		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1248	ND	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1254	0.0600	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1260	ND	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1262	ND	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Aroclor 1268	ND	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Total PCBs	0.0600	0.0502	0.00998		mg/Kg-dry	1	08/29/22 13:24:01
Surr: Decachlorobiphenyl	110	9.77 - 154			%Rec	1	08/29/22 13:24:01
Surr: Tetrachloro-m-xylene	102	24.2 - 187			%Rec	1	08/29/22 13:24:01

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	17.5	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 10:20:00 AM

Project: 8801 Excavations

Lab ID: 2208415-002

Matrix: Soil

Client Sample ID: A4-SIDE171:6

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0421	0.00678		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1221	ND	0.0421	0.00678		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1232	ND	0.0421	0.00678		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1242	ND	0.0421	0.00678		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1248	ND	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1254	0.507	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1260	ND	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1262	ND	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Aroclor 1268	ND	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Total PCBs	0.507	0.0421	0.00837		mg/Kg-dry	1	08/29/22 13:53:11
Surr: Decachlorobiphenyl	104	9.77 - 154			%Rec	1	08/29/22 13:53:11
Surr: Tetrachloro-m-xylene	93.2	24.2 - 187			%Rec	1	08/29/22 13:53:11

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	16.7	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson

Collection Date: 8/26/2022 11:40:00 AM

Project: 8801 Excavations

Lab ID: 2208415-003

Matrix: Soil

Client Sample ID: A4-SIDE172:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0415	0.00669		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1221	ND	0.0415	0.00669		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1232	ND	0.0415	0.00669		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1242	ND	0.0415	0.00669		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1248	ND	0.0415	0.00825		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1254	0.0126	0.0415	0.00825	J	mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1260	ND	0.0415	0.00825		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1262	ND	0.0415	0.00825		mg/Kg-dry	1	08/29/22 14:02:56
Aroclor 1268	ND	0.0415	0.00825		mg/Kg-dry	1	08/29/22 14:02:56
Total PCBs	0.0126	0.0415	0.00825	J	mg/Kg-dry	1	08/29/22 14:02:56
Surr: Decachlorobiphenyl	107	9.77 - 154			%Rec	1	08/29/22 14:02:56
Surr: Tetrachloro-m-xylene	99.4	24.2 - 187			%Rec	1	08/29/22 14:02:56

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	7.88	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208415-004
Client Sample ID: A4-SIDE172:6

Collection Date: 8/26/2022 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
<u>Polychlorinated Biphenyls (PCB) by EPA 8082</u>				Batch ID: 37600		Analyst: OK	
Aroclor 1016	ND	0.0461	0.00742		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1221	ND	0.0461	0.00742		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1232	ND	0.0461	0.00742		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1242	ND	0.0461	0.00742		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1248	ND	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1254	1.05	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1260	ND	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1262	ND	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Aroclor 1268	ND	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Total PCBs	1.05	0.0461	0.00916		mg/Kg-dry	1	08/29/22 14:12:40
Surr: Decachlorobiphenyl	105	9.77 - 154			%Rec	1	08/29/22 14:12:40
Surr: Tetrachloro-m-xylene	97.4	24.2 - 187			%Rec	1	08/29/22 14:12:40

<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R77830		Analyst: ALB	
Percent Moisture	13.7	0.500	0.100		wt%	1	08/29/22 9:20:50



Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson

Collection Date: 8/26/2022 12:00:00 PM

Project: 8801 Excavations

Lab ID: 2208415-005

Matrix: Soil

Client Sample ID: A4-SIDE219:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0427	0.00688		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1221	ND	0.0427	0.00688		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1232	ND	0.0427	0.00688		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1242	ND	0.0427	0.00688		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1248	ND	0.0427	0.00848		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1254	0.00872	0.0427	0.00848	J	mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1260	ND	0.0427	0.00848		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1262	ND	0.0427	0.00848		mg/Kg-dry	1	08/29/22 14:22:25
Aroclor 1268	ND	0.0427	0.00848		mg/Kg-dry	1	08/29/22 14:22:25
Total PCBs	0.00872	0.0427	0.00848	J	mg/Kg-dry	1	08/29/22 14:22:25
Surr: Decachlorobiphenyl	97.3	9.77 - 154			%Rec	1	08/29/22 14:22:25
Surr: Tetrachloro-m-xylene	94.9	24.2 - 187			%Rec	1	08/29/22 14:22:25

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	17.0	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson

Collection Date: 8/26/2022 1:30:00 PM

Project: 8801 Excavations

Lab ID: 2208415-006

Matrix: Soil

Client Sample ID: A4-SIDE173:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0455	0.00733		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1221	ND	0.0455	0.00733		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1232	ND	0.0455	0.00733		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1242	ND	0.0455	0.00733		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1248	ND	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1254	0.117	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1260	ND	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1262	ND	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Aroclor 1268	ND	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Total PCBs	0.117	0.0455	0.00904		mg/Kg-dry	1	08/29/22 14:32:07
Surr: Decachlorobiphenyl	108	9.77 - 154			%Rec	1	08/29/22 14:32:07
Surr: Tetrachloro-m-xylene	103	24.2 - 187			%Rec	1	08/29/22 14:32:07

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	10.6	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 1:35:00 PM

Project: 8801 Excavations

Lab ID: 2208415-007

Matrix: Soil

Client Sample ID: A4-SIDE173:6

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0401	0.00646		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1221	ND	0.0401	0.00646		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1232	ND	0.0401	0.00646		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1242	ND	0.0401	0.00646		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1248	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1254	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1260	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1262	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Aroclor 1268	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Total PCBs	ND	0.0401	0.00797		mg/Kg-dry	1	08/29/22 14:41:49
Surr: Decachlorobiphenyl	124	9.77 - 154			%Rec	1	08/29/22 14:41:49
Surr: Tetrachloro-m-xylene	121	24.2 - 187			%Rec	1	08/29/22 14:41:49

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	16.5	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 1:40:00 PM

Project: 8801 Excavations

Lab ID: 2208415-008

Matrix: Soil

Client Sample ID: A4-SIDE174:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0442	0.00712		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1221	ND	0.0442	0.00712		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1232	ND	0.0442	0.00712		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1242	ND	0.0442	0.00712		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1248	ND	0.0442	0.00879		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1254	0.0402	0.0442	0.00879	J	mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1260	ND	0.0442	0.00879		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1262	ND	0.0442	0.00879		mg/Kg-dry	1	08/29/22 14:51:33
Aroclor 1268	ND	0.0442	0.00879		mg/Kg-dry	1	08/29/22 14:51:33
Total PCBs	0.0402	0.0442	0.00879	J	mg/Kg-dry	1	08/29/22 14:51:33
Surr: Decachlorobiphenyl	97.6	9.77 - 154			%Rec	1	08/29/22 14:51:33
Surr: Tetrachloro-m-xylene	89.8	24.2 - 187			%Rec	1	08/29/22 14:51:33

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	8.96	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208415-009
Client Sample ID: A4-SIDE174:6

Collection Date: 8/26/2022 1:43:00 PM

Matrix: Soil

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

Batch ID: 37600 Analyst: OK

Aroclor 1016	ND	0.0381	0.00614		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1221	ND	0.0381	0.00614		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1232	ND	0.0381	0.00614		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1242	ND	0.0381	0.00614		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1248	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1254	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1260	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1262	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Aroclor 1268	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Total PCBs	ND	0.0381	0.00757		mg/Kg-dry	1	08/29/22 15:01:16
Surr: Decachlorobiphenyl	102	9.77 - 154			%Rec	1	08/29/22 15:01:16
Surr: Tetrachloro-m-xylene	94.7	24.2 - 187			%Rec	1	08/29/22 15:01:16

Sample Moisture (Percent Moisture)

Batch ID: R77830 Analyst: ALB

Percent Moisture	7.43	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 1:45:00 PM

Project: 8801 Excavations

Lab ID: 2208415-010

Matrix: Soil

Client Sample ID: A4-SIDE174:7

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0399	0.00643		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1221	ND	0.0399	0.00643		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1232	ND	0.0399	0.00643		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1242	ND	0.0399	0.00643		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1248	ND	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1254	0.135	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1260	ND	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1262	ND	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Aroclor 1268	ND	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Total PCBs	0.135	0.0399	0.00793		mg/Kg-dry	1	08/29/22 15:11:03
Surr: Decachlorobiphenyl	95.8	9.77 - 154			%Rec	1	08/29/22 15:11:03
Surr: Tetrachloro-m-xylene	88.6	24.2 - 187			%Rec	1	08/29/22 15:11:03

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	14.5	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson

Collection Date: 8/26/2022 2:25:00 PM

Project: 8801 Excavations

Lab ID: 2208415-011

Matrix: Soil

Client Sample ID: A4-SIDE175:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0416	0.00670		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1221	ND	0.0416	0.00670		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1232	ND	0.0416	0.00670		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1242	ND	0.0416	0.00670		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1248	ND	0.0416	0.00826		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1254	0.0213	0.0416	0.00826	J	mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1260	ND	0.0416	0.00826		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1262	ND	0.0416	0.00826		mg/Kg-dry	1	08/29/22 15:20:47
Aroclor 1268	ND	0.0416	0.00826		mg/Kg-dry	1	08/29/22 15:20:47
Total PCBs	0.0213	0.0416	0.00826	J	mg/Kg-dry	1	08/29/22 15:20:47
Surr: Decachlorobiphenyl	104	9.77 - 154			%Rec	1	08/29/22 15:20:47
Surr: Tetrachloro-m-xylene	101	24.2 - 187			%Rec	1	08/29/22 15:20:47

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	9.06	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 2:27:00 PM

Project: 8801 Excavations

Lab ID: 2208415-012

Matrix: Soil

Client Sample ID: A4-SIDE175:6

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0405	0.00653		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1221	ND	0.0405	0.00653		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1232	ND	0.0405	0.00653		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1242	ND	0.0405	0.00653		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1248	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1254	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1260	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1262	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Aroclor 1268	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Total PCBs	ND	0.0405	0.00805		mg/Kg-dry	1	08/29/22 15:30:29
Surr: Decachlorobiphenyl	97.6	9.77 - 154			%Rec	1	08/29/22 15:30:29
Surr: Tetrachloro-m-xylene	91.3	24.2 - 187			%Rec	1	08/29/22 15:30:29

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	13.1	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 3:15:00 PM

Project: 8801 Excavations

Lab ID: 2208415-013

Matrix: Soil

Client Sample ID: A4-SIDE176:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0412	0.00664		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1221	ND	0.0412	0.00664		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1232	ND	0.0412	0.00664		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1242	ND	0.0412	0.00664		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1248	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1254	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1260	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1262	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Aroclor 1268	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Total PCBs	ND	0.0412	0.00819		mg/Kg-dry	1	08/29/22 15:40:14
Surr: Decachlorobiphenyl	110	9.77 - 154			%Rec	1	08/29/22 15:40:14
Surr: Tetrachloro-m-xylene	105	24.2 - 187			%Rec	1	08/29/22 15:40:14

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	9.21	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
 Date Reported: 8/30/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208415-014
Client Sample ID: A4-SIDE176:6

Collection Date: 8/26/2022 3:17:00 PM

Matrix: Soil

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

Batch ID: 37600 Analyst: OK

Aroclor 1016	ND	0.0470	0.00757		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1221	ND	0.0470	0.00757		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1232	ND	0.0470	0.00757		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1242	ND	0.0470	0.00757		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1248	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1254	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1260	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1262	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Aroclor 1268	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Total PCBs	ND	0.0470	0.00935		mg/Kg-dry	1	08/29/22 15:49:57
Surr: Decachlorobiphenyl	108	9.77 - 154			%Rec	1	08/29/22 15:49:57
Surr: Tetrachloro-m-xylene	101	24.2 - 187			%Rec	1	08/29/22 15:49:57

Sample Moisture (Percent Moisture)

Batch ID: R77830 Analyst: ALB

Percent Moisture	16.1	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208415-015
Client Sample ID: A4-SIDE176:7

Collection Date: 8/26/2022 3:20:00 PM

Matrix: Soil

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
<u>Polychlorinated Biphenyls (PCB) by EPA 8082</u>				Batch ID: 37600		Analyst: OK	
Aroclor 1016	ND	0.0458	0.00739		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1221	ND	0.0458	0.00739		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1232	ND	0.0458	0.00739		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1242	ND	0.0458	0.00739		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1248	ND	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1254	0.0662	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1260	ND	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1262	ND	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Aroclor 1268	ND	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Total PCBs	0.0662	0.0458	0.00911		mg/Kg-dry	1	08/29/22 15:59:40
Surr: Decachlorobiphenyl	102	9.77 - 154			%Rec	1	08/29/22 15:59:40
Surr: Tetrachloro-m-xylene	98.1	24.2 - 187			%Rec	1	08/29/22 15:59:40

<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R77830		Analyst: ALB	
Percent Moisture	14.1	0.500	0.100		wt%	1	08/29/22 9:20:50



Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson

Collection Date: 8/26/2022 4:00:00 PM

Project: 8801 Excavations

Lab ID: 2208415-016

Matrix: Soil

Client Sample ID: A4-SIDE220:2

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

Batch ID: 37600

Analyst: OK

Aroclor 1016	ND	0.0410	0.00661		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1221	ND	0.0410	0.00661		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1232	ND	0.0410	0.00661		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1242	ND	0.0410	0.00661		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1248	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1254	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1260	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1262	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Aroclor 1268	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Total PCBs	ND	0.0410	0.00816		mg/Kg-dry	1	08/29/22 16:09:26
Surr: Decachlorobiphenyl	115	9.77 - 154			%Rec	1	08/29/22 16:09:26
Surr: Tetrachloro-m-xylene	111	24.2 - 187			%Rec	1	08/29/22 16:09:26

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	7.78	0.500	0.100		wt%	1	08/29/22 9:20:50
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Client: Shannon & Wilson

Collection Date: 8/26/2022 3:25:00 PM

Project: 8801 Excavations

Lab ID: 2208415-017

Matrix: Soil

Client Sample ID: A5-SIDE20:2

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 37615

Analyst: EH

Arsenic	3.74	0.104	0.0348		mg/Kg-dry	1	08/30/22 14:40:49
Cadmium	0.105	0.173	0.00286	J	mg/Kg-dry	1	08/30/22 14:40:49
Chromium	13.3	0.346	0.113		mg/Kg-dry	1	08/30/22 14:40:49
Lead	8.25	0.173	0.0360		mg/Kg-dry	1	08/30/22 14:40:49

Sample Moisture (Percent Moisture)

Batch ID: R77830

Analyst: ALB

Percent Moisture	8.94	0.500	0.100		wt%	1	08/29/22 9:20:50
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Analytical Report

Work Order: 2208415
Date Reported: 8/30/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208415-018
Client Sample ID: A5-SIDE20:6

Collection Date: 8/26/2022 3:30:00 PM

Matrix: Soil

Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
<u>Polychlorinated Biphenyls (PCB) by EPA 8082</u>				Batch ID: 37600		Analyst: OK	
Aroclor 1016	ND	0.0446	0.00718		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1221	ND	0.0446	0.00718		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1232	ND	0.0446	0.00718		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1242	ND	0.0446	0.00718		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1248	ND	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1254	0.104	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1260	ND	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1262	ND	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Aroclor 1268	ND	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Total PCBs	0.104	0.0446	0.00886		mg/Kg-dry	1	08/29/22 16:19:10
Surr: Decachlorobiphenyl	103	9.77 - 154			%Rec	1	08/29/22 16:19:10
Surr: Tetrachloro-m-xylene	96.2	24.2 - 187			%Rec	1	08/29/22 16:19:10
<u>Total Metals by EPA Method 6020B</u>				Batch ID: 37615		Analyst: EH	
Arsenic	5.54	0.111	0.0373		mg/Kg-dry	1	08/30/22 14:54:21
Lead	44.2	0.186	0.0386		mg/Kg-dry	1	08/30/22 14:54:21
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R77830		Analyst: ALB	
Percent Moisture	18.4	0.500	0.100		wt%	1	08/29/22 9:20:50

Work Order: 2208415
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: ICB-37615	SampType: ICB	Units: µg/L	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: ICB	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600555								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.20									
Cadmium	ND	2.00									
Chromium	ND	4.00									
Lead	ND	2.00									

Sample ID: ICV-37615	SampType: ICV	Units: µg/L	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: ICV	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600556								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	103	1.20	100.0	0	103	90	110				
Cadmium	4.89	2.00	5.000	0	97.7	90	110				
Chromium	101	4.00	100.0	0	101	90	110				
Lead	48.7	2.00	50.00	0	97.3	90	110				

Sample ID: CCV-37615A	SampType: CCV	Units: µg/L	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: CCV	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600561								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	100	1.20	100.0	0	100	90	110				
Cadmium	4.99	2.00	5.000	0	99.8	90	110				
Chromium	96.2	4.00	100.0	0	96.2	90	110				
Lead	50.4	2.00	50.00	0	101	90	110				

Sample ID: CCB-37615A	SampType: CCB	Units: µg/L	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: CCB	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600562								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.20									
Cadmium	ND	2.00									
Chromium	ND	4.00									

Work Order: 2208415
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: CCB-37615A	SampType: CCB	Units: µg/L	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: CCB	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600562								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	2.00									

Sample ID: MB-37615	SampType: MBLK	Units: mg/Kg	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: MBLKS	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600563								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0945									
Cadmium	ND	0.157									
Chromium	ND	0.315									
Lead	ND	0.157									

Sample ID: LCS-37615	SampType: LCS	Units: mg/Kg	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: LCSS	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600564								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38.6	0.0945	39.37	0	98.1	80	120				
Cadmium	1.94	0.157	1.969	0	98.4	80	120				
Chromium	39.4	0.315	39.37	0	100	80	120				
Lead	20.8	0.157	19.69	0	106	80	120				

Sample ID: 2208415-017AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/30/2022	RunNo: 77902							
Client ID: A5-SIDE20:2	Batch ID: 37615	Analysis Date: 8/30/2022	SeqNo: 1600567								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.4	0.101	41.92	3.735	99.4	75	125				
Cadmium	2.25	0.168	2.096	0.1046	102	75	125				
Chromium	55.7	0.335	41.92	13.35	101	75	125				
Lead	28.3	0.168	20.96	8.255	95.7	75	125				

Work Order: 2208415
CLIENT: Shannon & Wilson
Project: 8801 Excavations

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2208415-017AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/30/2022		RunNo: 77902			
Client ID: A5-SIDE20:2		Batch ID: 37615				Analysis Date: 8/30/2022		SeqNo: 1600568			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.2	0.103	42.90	3.735	96.7	75	125	45.41	0.467	20	
Cadmium	2.24	0.172	2.145	0.1046	99.6	75	125	2.247	0.234	20	
Chromium	56.5	0.343	42.90	13.35	101	75	125	55.68	1.54	20	
Lead	28.6	0.172	21.45	8.255	95.1	75	125	28.30	1.20	20	

Sample ID: CCV-37615B		SampType: CCV		Units: µg/L		Prep Date: 8/30/2022		RunNo: 77902			
Client ID: CCV		Batch ID: 37615				Analysis Date: 8/30/2022		SeqNo: 1600571			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	101	1.20	100.0	0	101	90	110				
Cadmium	5.01	2.00	5.000	0	100	90	110				
Chromium	102	4.00	100.0	0	102	90	110				
Lead	51.2	2.00	50.00	0	102	90	110				

Sample ID: CCB-37615B		SampType: CCB		Units: µg/L		Prep Date: 8/30/2022		RunNo: 77902			
Client ID: CCB		Batch ID: 37615				Analysis Date: 8/30/2022		SeqNo: 1600572			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.20									
Cadmium	ND	2.00									
Chromium	ND	4.00									
Lead	ND	2.00									

Work Order: 2208415
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: PCB ICB	SampType: ICB	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICB	Batch ID: 37600				Analysis Date: 4/14/2022	SeqNo: 1540495					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	167		200.0		83.7	50.2	159				
Surr: Tetrachloro-m-xylene	179		200.0		89.4	60.3	134				

Sample ID: PCB ICV	SampType: ICV	Units: mg/Kg			Prep Date: 4/14/2022	RunNo: 75092					
Client ID: ICV	Batch ID: 37600				Analysis Date: 4/14/2022	SeqNo: 1540496					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.991	0.0500	1.000	0	99.1	80	120				
Aroclor 1260	0.987	0.0500	1.000	0	98.7	80	120				
Surr: Decachlorobiphenyl	206		200.0		103	30.2	155				
Surr: Tetrachloro-m-xylene	196		200.0		98.2	58.8	143				

Sample ID: 1660-CCV-37600A	SampType: CCV	Units: mg/Kg			Prep Date: 8/29/2022	RunNo: 77885					
Client ID: CCV	Batch ID: 37600				Analysis Date: 8/29/2022	SeqNo: 1600076					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.921	0.0500	1.000	0	92.1	80	120				
Aroclor 1260	0.925	0.0500	1.000	0	92.5	80	120				
Surr: Decachlorobiphenyl	220		200.0		110	30.2	155				
Surr: Tetrachloro-m-xylene	183		200.0		91.5	58.8	143				

Work Order: 2208415
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-37600	SampType: MBLK	Units: mg/Kg	Prep Date: 8/29/2022	RunNo: 77885							
Client ID: MBLKS	Batch ID: 37600		Analysis Date: 8/29/2022	SeqNo: 1600078							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	229		200.0		115	9.77	154				
Surr: Tetrachloro-m-xylene	171		200.0		85.6	24.2	187				

Sample ID: LCS-37600	SampType: LCS	Units: mg/Kg	Prep Date: 8/29/2022	RunNo: 77885							
Client ID: LCSS	Batch ID: 37600		Analysis Date: 8/29/2022	SeqNo: 1600079							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.976	0.0500	1.000	0	97.6	75.7	162				
Aroclor 1260	0.903	0.0500	1.000	0	90.3	57.8	183				
Surr: Decachlorobiphenyl	245		200.0		122	9.77	154				
Surr: Tetrachloro-m-xylene	196		200.0		97.8	24.2	187				

Sample ID: 2208415-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 8/29/2022	RunNo: 77885							
Client ID: A4-SIDE171:2	Batch ID: 37600		Analysis Date: 8/29/2022	SeqNo: 1600082							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.10	0.0491	0.9826	0	111	55.6	188				
Aroclor 1260	1.06	0.0491	0.9826	0	107	54.5	178				
Surr: Decachlorobiphenyl	247		196.5		125	9.77	154				
Surr: Tetrachloro-m-xylene	203		196.5		103	24.2	187				

Work Order: 2208415
CLIENT: Shannon & Wilson
Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2208415-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/29/2022		RunNo: 77885			
Client ID: A4-SIDE171:2		Batch ID: 37600				Analysis Date: 8/29/2022		SeqNo: 1600084			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.00	0.0497	0.9931	0	101	55.6	188	1.095	8.75	30	
Aroclor 1260	0.917	0.0497	0.9931	0	92.3	54.5	178	1.055	14.0	30	
Surr: Decachlorobiphenyl	221		198.6		111	9.77	154		0		
Surr: Tetrachloro-m-xylene	196		198.6		98.5	24.2	187		0		

Sample ID: 1660-CCV-37600B		SampType: CCV		Units: mg/Kg		Prep Date: 8/29/2022		RunNo: 77885			
Client ID: CCV		Batch ID: 37600				Analysis Date: 8/29/2022		SeqNo: 1600102			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.04	0.0500	1.000	0	104	80	120				
Aroclor 1260	1.02	0.0500	1.000	0	102	80	120				
Surr: Decachlorobiphenyl	240		200.0		120	30.2	155				
Surr: Tetrachloro-m-xylene	208		200.0		104	58.8	143				

Client Name: SW	Work Order Number: 2208415
Logged by: Clare Griggs	Date Received: 8/26/2022 4:49:00 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 Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
- Samples were collected the same day and chilled.
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
Sample	6.9

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



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/26/22 Page: 1 of 2

Project Name: 8801 Excavations
Project No: 103485

Collected by: Ryan Peterson
Location: Tukwila, WA

Report To (PM): Ryan Peterson

PM Email: Ryan.Peterson@shawml.com

Laboratory Project No (Internal): ~~2208415~~
Special Remarks: 2208415 edit 8/29/22

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
A4-SIDE174:2	8/26/22	1015	Soil	1													
A4-SIDE174:6		1020															
A4-SIDE172:2		1140															
A4-SIDE172:6		1145															
A4-SIDE219:2		1200															
A4-SIDE173:2		1330															
A4-SIDE173:6		1335															
A4-SIDE174:2		1340															
A4-SIDE174:6		1343															
A4-SIDE174:7		1345															

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

Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Ryan Peterson Date/Time 8/26/22 10:49

Print Name Ryan Peterson

Relinquished (Signature) Ryan Peterson Date/Time 8/26/22 10:49

Print Name Ryan Peterson

Received (Signature) Ryan Peterson Date/Time 8/26/22 10:49

Print Name Ryan Peterson

Received (Signature) Ryan Peterson Date/Time 8/26/22 10:49

Print Name Ryan Peterson

Turn-around Time: Standard Next Day Same Day 2 Day 3 Day (specify)

DATA SET for Review - Deliverable Requirements

Polychlorinated Biphenyls (PCB) by EPA 8082

Fremont Analytical Work Order No. 2208415

Shannon & Wilson

Project Name: 8801- Excavations

This Data contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-25\Data\220413\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 041305.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:39 pm
2) 041306.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 03:54 pm
3) 041307.D 1660	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:04 pm
4) 041308.D 1254	PCB_GC25_PEST_190228.M	7	1.000	14 Apr 2022 04:14 pm
5) 041309.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:23 pm
6) 041310.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:33 pm
7) 041311.D co	PCB_GC25_PEST_190228.M	6	1.000	14 Apr 2022 04:43 pm
8) 041312.D PCB 8	PCB_GC25_PEST_190228.M	101	1.000	14 Apr 2022 04:53 pm
9) 041313.D PCB 20	PCB_GC25_PEST_190228.M	102	1.000	14 Apr 2022 05:03 pm
10) 041314.D PCB 50	PCB_GC25_PEST_190228.M	103	1.000	14 Apr 2022 05:13 pm
11) 041315.D PCB 100	PCB_GC25_PEST_190228.M	104	1.000	14 Apr 2022 05:22 pm
12) 041316.D PCB 200	PCB_GC25_PEST_190228.M	105	1.000	14 Apr 2022 05:32 pm
13) 041317.D PCB 500	PCB_GC25_PEST_190228.M	106	1.000	14 Apr 2022 05:42 pm
14) 041318.D PCB 1000	PCB_GC25_PEST_190228.M	107	1.000	14 Apr 2022 05:52 pm
15) 041319.D PCB 2000	PCB_GC25_PEST_190228.M	108	1.000	14 Apr 2022 06:01 pm
16) 041320.D PCB ICB	PCB_GC25_PEST_190228.M	109	1.000	14 Apr 2022 06:11 pm
17) 041321.D PCB ICV	PCB_GC25_PEST_190228.M	110	1.000	14 Apr 2022 06:21 pm
18) 041322.D PCB 1221	PCB_GC25_PEST_190228.M	111	1.000	14 Apr 2022 06:31 pm
19) 041323.D PCB 1232	PCB_GC25_PEST_190228.M	112	1.000	14 Apr 2022 06:41 pm
20) 041324.D PCB 1242	PCB_GC25_PEST_190228.M	113	1.000	14 Apr 2022 06:50 pm
21) 041325.D PCB 1248	PCB_GC25_PEST_190228.M	114	1.000	14 Apr 2022 07:00 pm

22)	041326.D	PCB_GC25_PEST_190228.M					
PCB 1254			115	1.000	14 Apr 2022	07:10 pm	

23)	041327.D	PCB_GC25_PEST_190228.M					
PCB 1262			116	1.000	14 Apr 2022	07:20 pm	

24)	041328.D	PCB_GC25_PEST_190228.M					
PCB 1268			117	1.000	14 Apr 2022	07:30 pm	

25)	042902.D	PCB_GC25_PEST_190228.M					
1660			150	1.000	29 Apr 2022	08:57 am	

Data Directory: D:\GC-25\Data\220829\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 082901.D co	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022 08:12 am
2) 082902.D 1660-CCV	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022 08:22 am
3) 082903.D 2208312-002A 5X	PCB_GC25_PEST_190228.M	120	1.000	29 Aug 2022 08:34 am
4) 082904.D 2208321-003A 5X	PCB_GC25_PEST_190228.M	133	1.000	29 Aug 2022 09:13 am
5) 082905.D 2208321-005A 200X	PCB_GC25_PEST_190228.M	134	1.000	29 Aug 2022 09:22 am
6) 082906.D 2208323-004A 10X	PCB_GC25_PEST_190228.M	135	1.000	29 Aug 2022 09:32 am
7) 082907.D 2208323-003A 200X	PCB_GC25_PEST_190228.M	136	1.000	29 Aug 2022 09:42 am
8) 082908.D 2208324-004A 5X	PCB_GC25_PEST_190228.M	137	1.000	29 Aug 2022 09:52 am
9) 082909.D 2208321-005A 1000X	PCB_GC25_PEST_190228.M	138	1.000	29 Aug 2022 10:14 am
10) 082910.D 2208324-003A 2000X	PCB_GC25_PEST_190228.M	139	1.000	29 Aug 2022 10:24 am
11) 082911.D co	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022 10:35 am
12) 082912.D 1660-CCV	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022 10:45 am
13) 082913.D LCS1-37554	PCB_GC25_PEST_190228.M	112	1.000	29 Aug 2022 11:39 am
14) 082914.D 1660-CCV	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022 11:49 am
15) 082915.D MB-37600	PCB_GC25_PEST_190228.M	11	1.000	29 Aug 2022 01:04 pm
16) 082916.D LCS-37600	PCB_GC25_PEST_190228.M	12	1.000	29 Aug 2022 01:14 pm
17) 082917.D 2208415-001A	PCB_GC25_PEST_190228.M	13	1.000	29 Aug 2022 01:24 pm
18) 082918.D 2208415-001AMS	PCB_GC25_PEST_190228.M	14	1.000	29 Aug 2022 01:33 pm
19) 082919.D 2208415-001AMSD	PCB_GC25_PEST_190228.M	15	1.000	29 Aug 2022 01:43 pm
20) 082920.D 2208415-002A	PCB_GC25_PEST_190228.M	16	1.000	29 Aug 2022 01:53 pm
21) 082921.D 2208415-003A	PCB_GC25_PEST_190228.M	17	1.000	29 Aug 2022 02:02 pm

22) 082922.D	PCB_GC25_PEST_190228.M	18	1.000	29 Aug 2022	02:12 pm
2208415-004A					
23) 082923.D	PCB_GC25_PEST_190228.M	19	1.000	29 Aug 2022	02:22 pm
2208415-005A					
24) 082924.D	PCB_GC25_PEST_190228.M	20	1.000	29 Aug 2022	02:32 pm
2208415-006A					
25) 082925.D	PCB_GC25_PEST_190228.M	21	1.000	29 Aug 2022	02:41 pm
2208415-007A					
26) 082926.D	PCB_GC25_PEST_190228.M	22	1.000	29 Aug 2022	02:51 pm
2208415-008A					
27) 082927.D	PCB_GC25_PEST_190228.M	23	1.000	29 Aug 2022	03:01 pm
2208415-009A					
28) 082928.D	PCB_GC25_PEST_190228.M	24	1.000	29 Aug 2022	03:11 pm
2208415-010A					
29) 082929.D	PCB_GC25_PEST_190228.M	25	1.000	29 Aug 2022	03:20 pm
2208415-011A					
30) 082930.D	PCB_GC25_PEST_190228.M	26	1.000	29 Aug 2022	03:30 pm
2208415-012A					
31) 082931.D	PCB_GC25_PEST_190228.M	27	1.000	29 Aug 2022	03:40 pm
2208415-013A					
32) 082932.D	PCB_GC25_PEST_190228.M	28	1.000	29 Aug 2022	03:49 pm
2208415-014A					
33) 082933.D	PCB_GC25_PEST_190228.M	29	1.000	29 Aug 2022	03:59 pm
2208415-015A					
34) 082934.D	PCB_GC25_PEST_190228.M	30	1.000	29 Aug 2022	04:09 pm
2208415-016A					
35) 082935.D	PCB_GC25_PEST_190228.M	31	1.000	29 Aug 2022	04:19 pm
2208415-018A					
36) 082936.D	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022	04:28 pm
co					
37) 082937.D	PCB_GC25_PEST_190228.M	7	1.000	29 Aug 2022	04:40 pm
1660-CCV					



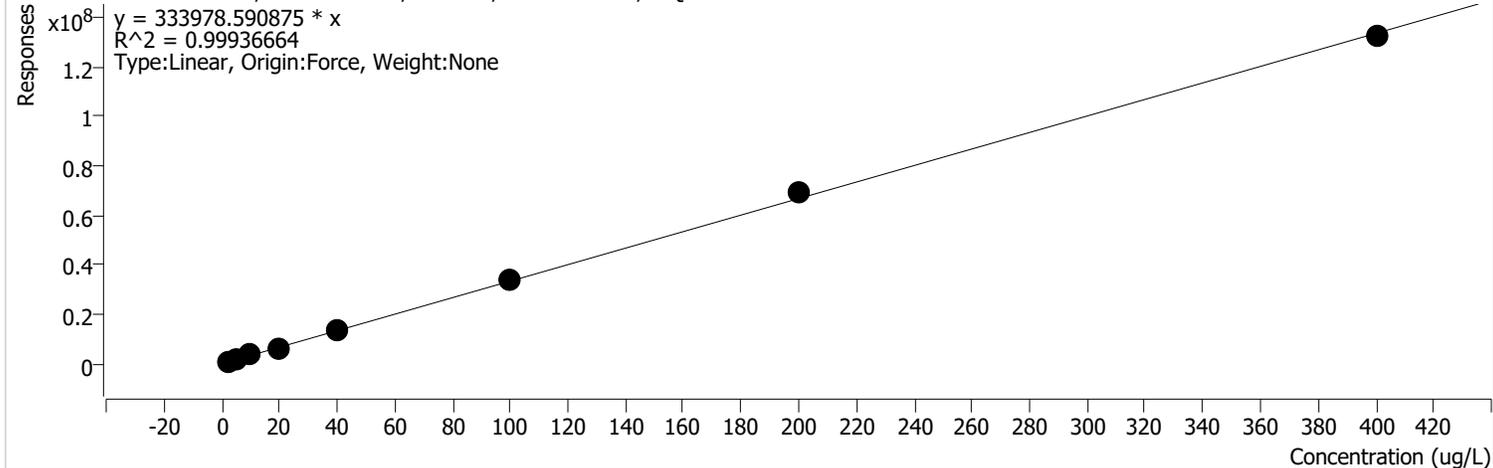
Calibration

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:33 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX 2 %RSE =

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



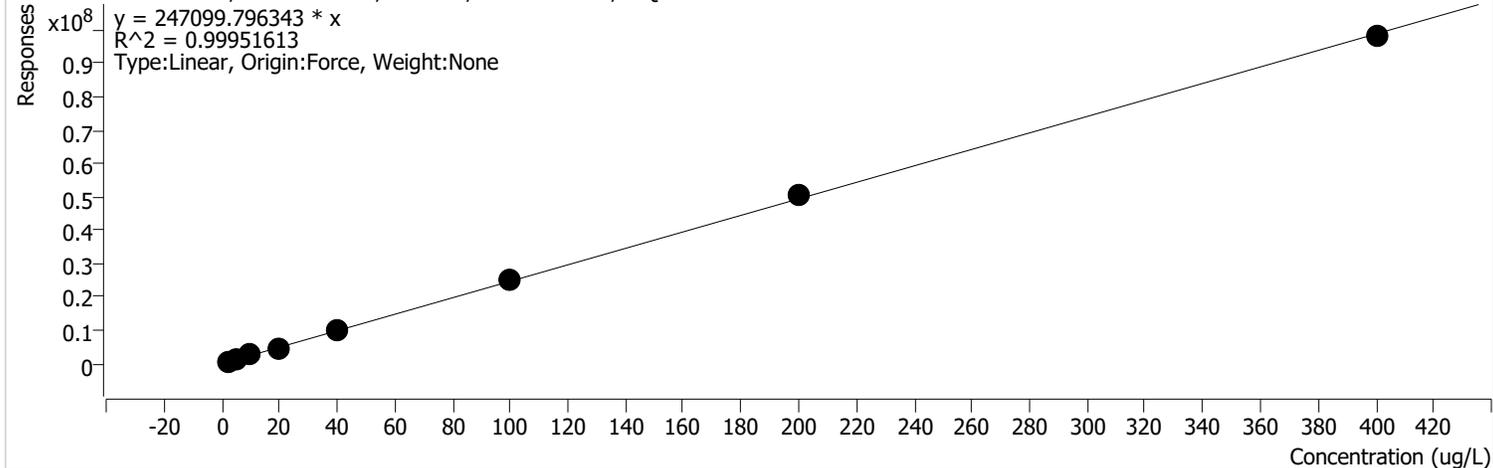
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	1002645	2.5000	401057.8477	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1479594	5.0000	295918.7555	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	4013955	10.0000	401395.5101	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5800560	20.0000	290027.9938	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13242000	40.0000	331050.0118	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34407320	100.0000	344073.2038	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69115366	200.0000	345576.8289	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132219389	400.0000	330548.4713	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE =

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



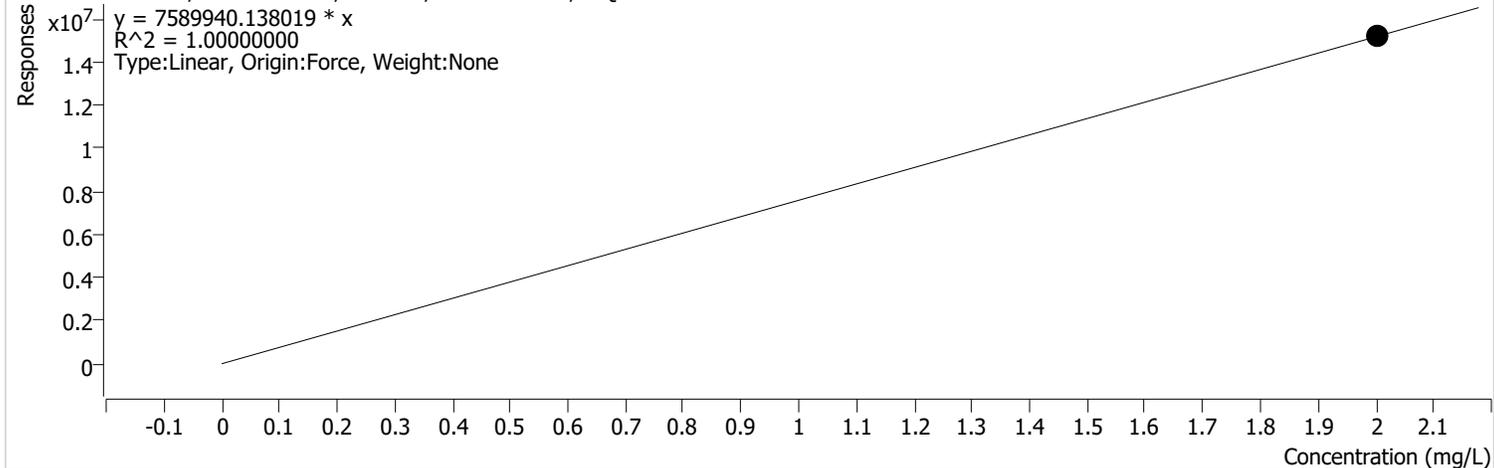
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	732682	2.5000	293072.6 236	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1097830	5.0000	219566.0 924	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2963908	10.0000	296390.7 661	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4267578	20.0000	213378.9 026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9689080	40.0000	242226.9 948	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25213582	100.0000	252135.8 231	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50933338	200.0000	254666.6 921	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97999220	400.0000	244998.0 505	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 %RSE =

A1254 1 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



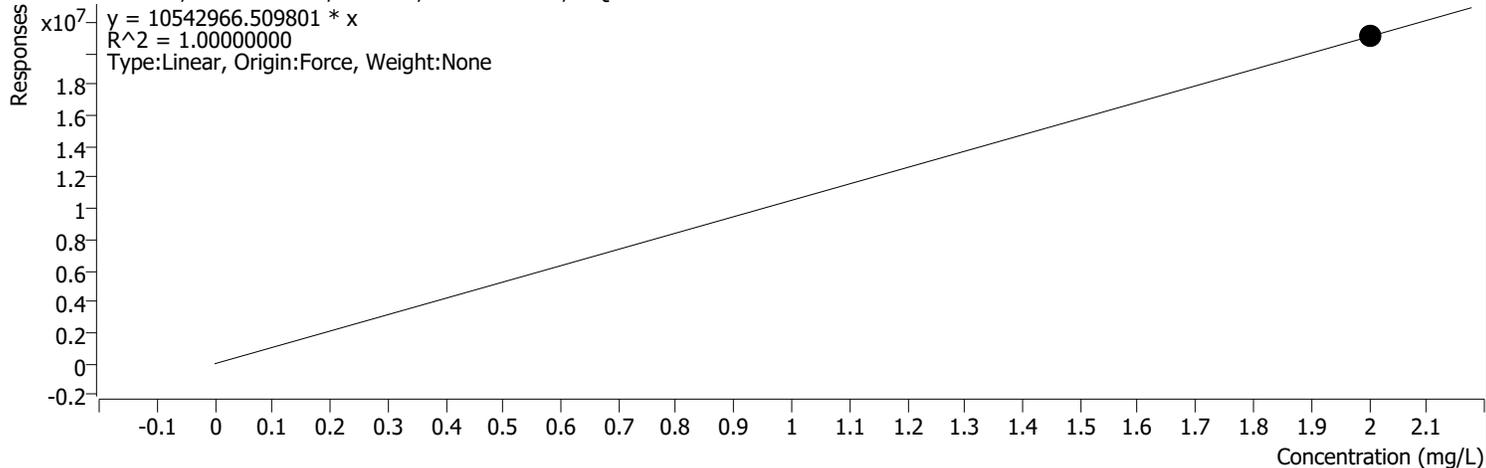
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	15179880	2.0000	7589940.1380	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1254 2 %RSE =

A1254 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



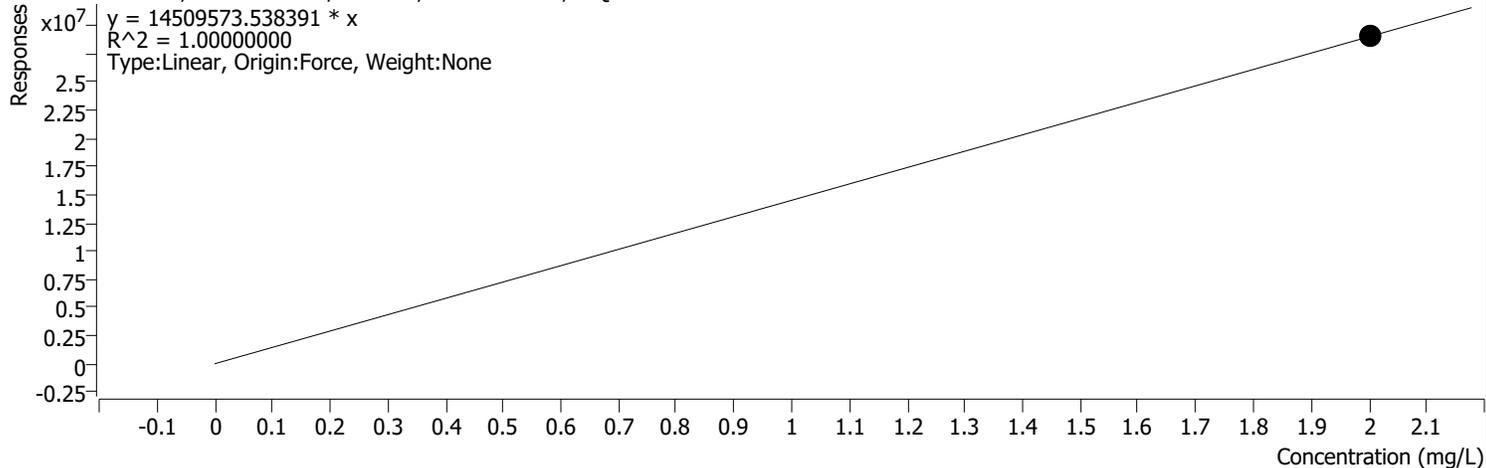
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	21085933	2.0000	10542966.5098	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 %RSE =

A1254 3 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



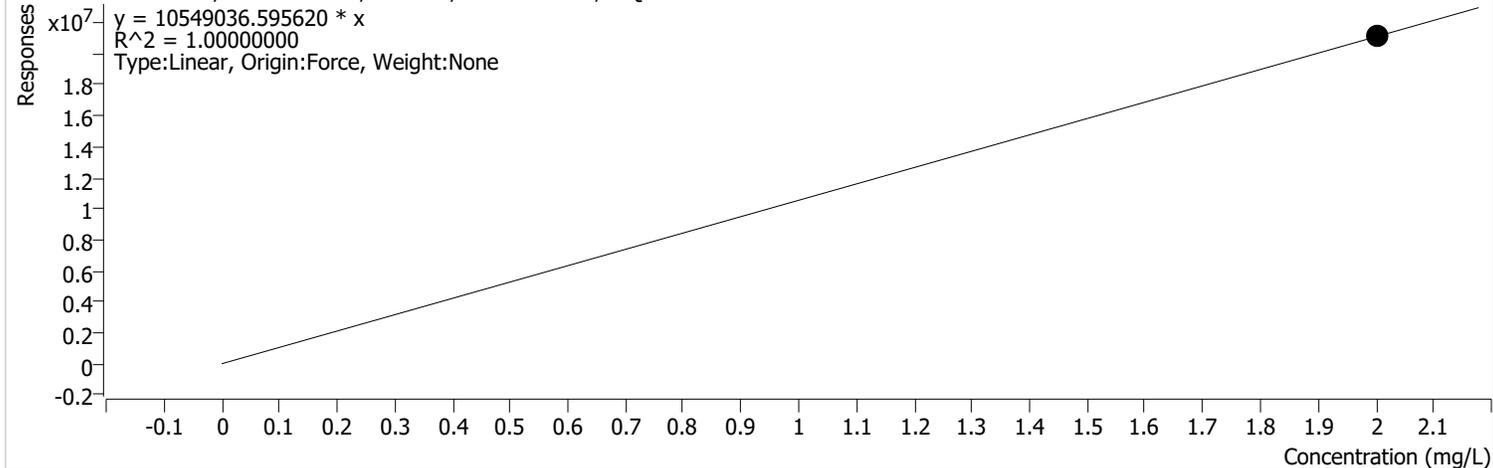
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	29019147	2.0000	14509573.5384	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 2 %RSE =

A1254 1 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

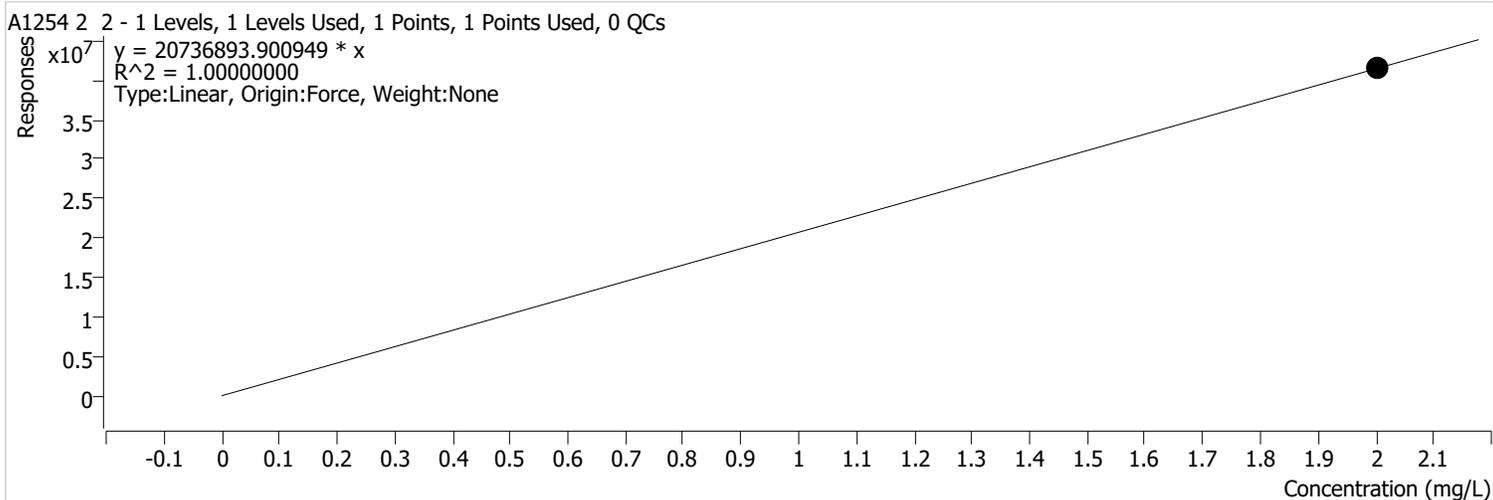


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	21098073	2.0000	10549036.5956	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 2 %RSE =



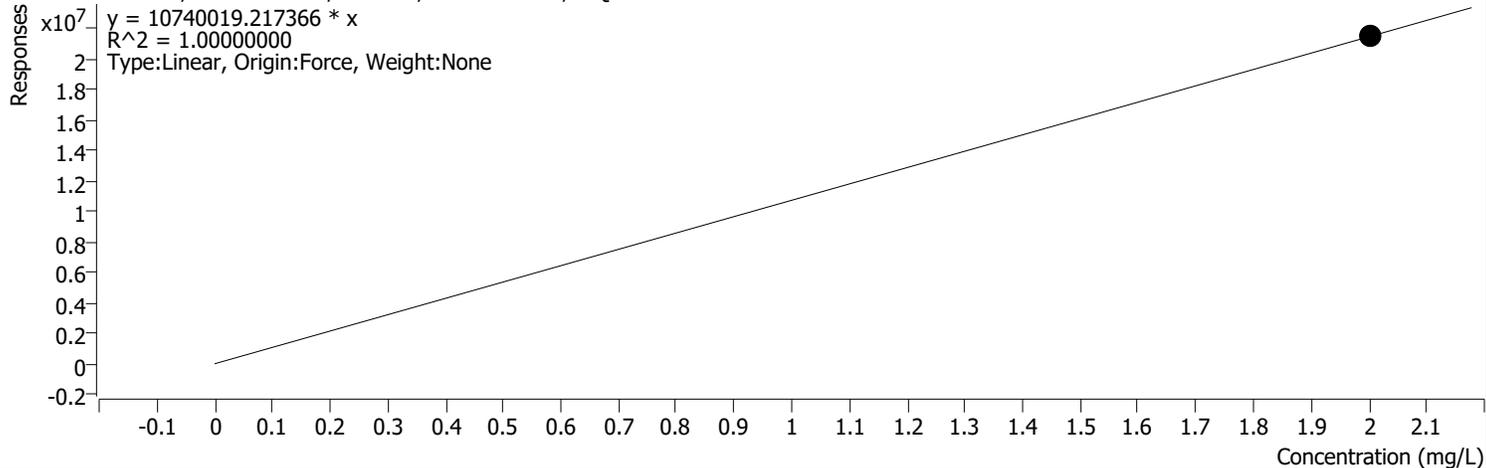
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	41473788	2.0000	20736893 .9009	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 %RSE =

A1254 4 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

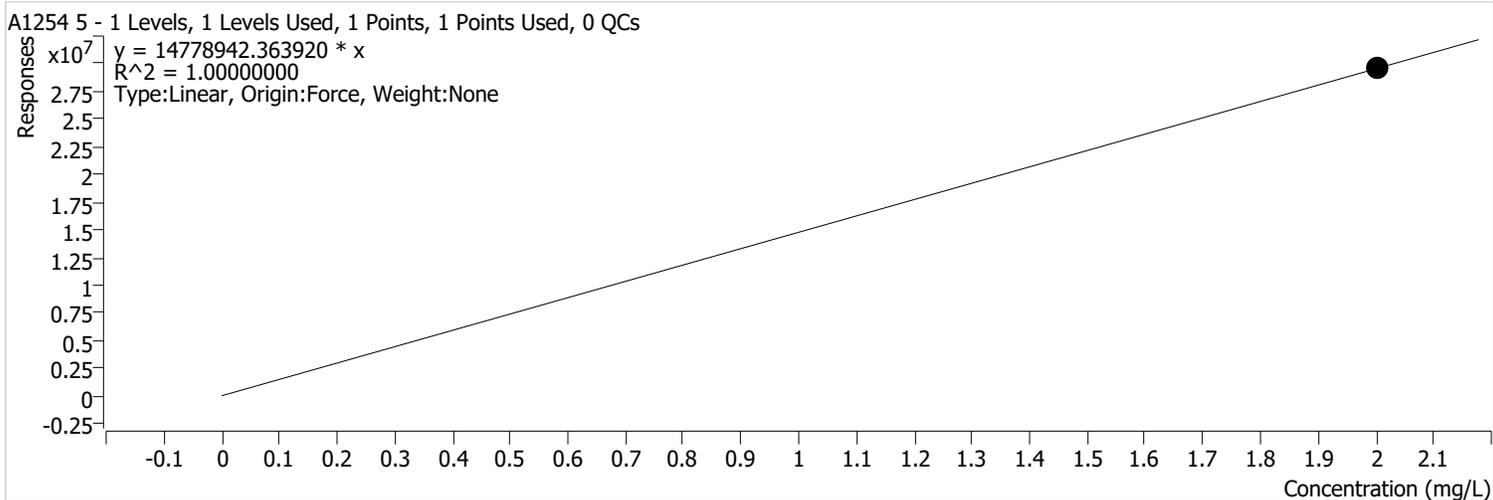


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	21480038	2.0000	10740019.2174	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 %RSE =

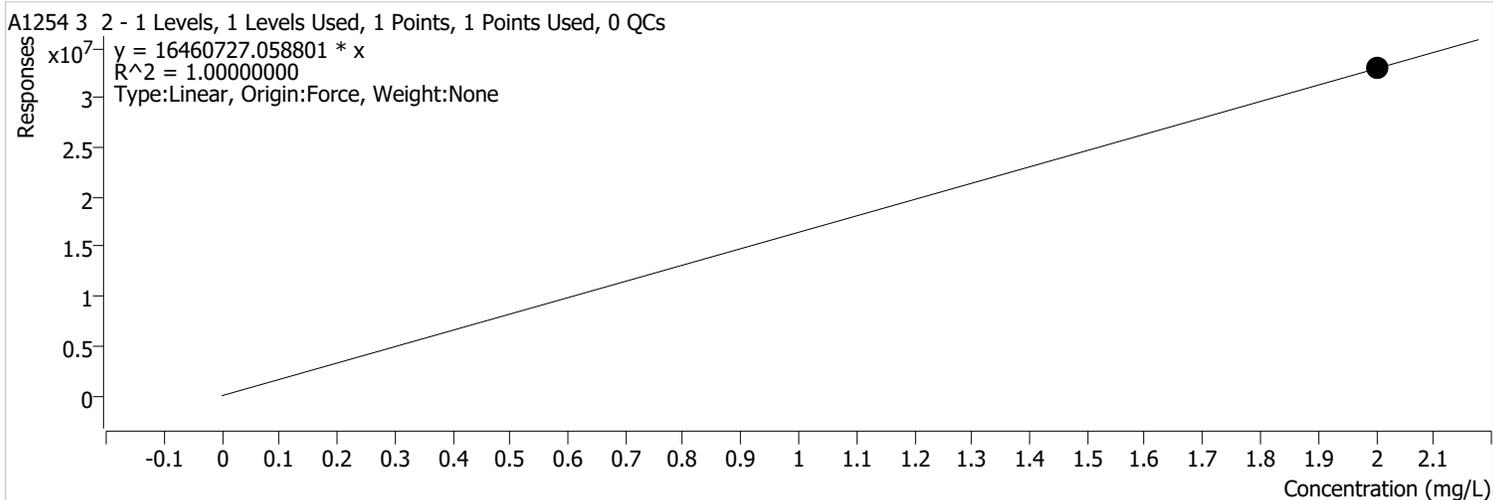


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	29557885	2.0000	14778942.3639	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 2 %RSE =



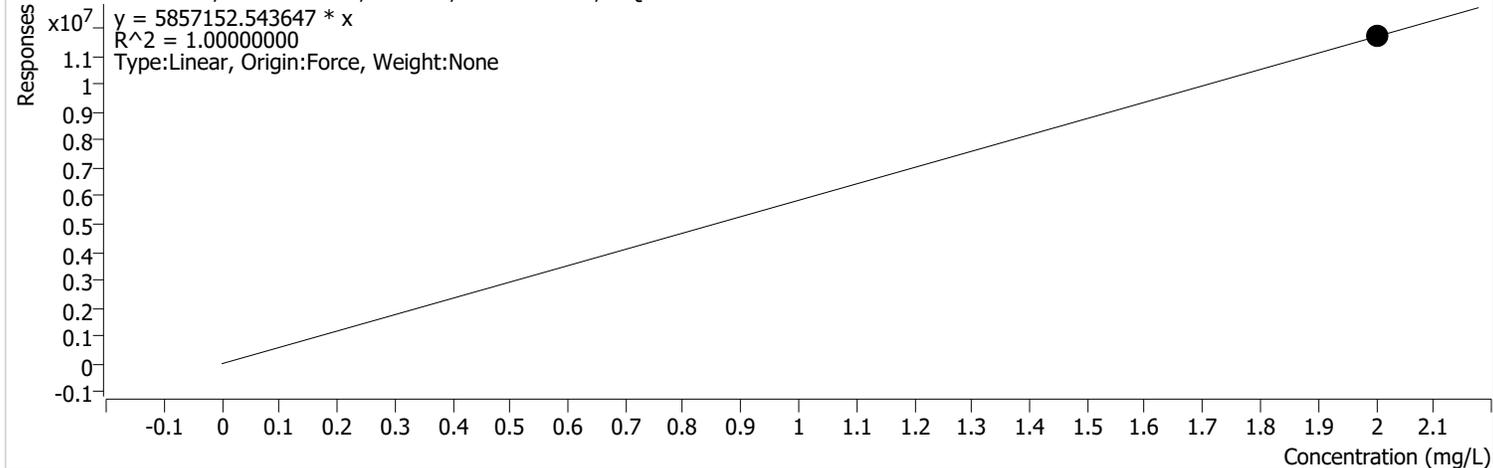
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	32921454	2.0000	16460727.0588	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1254 4 2 %RSE =

A1254 4 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

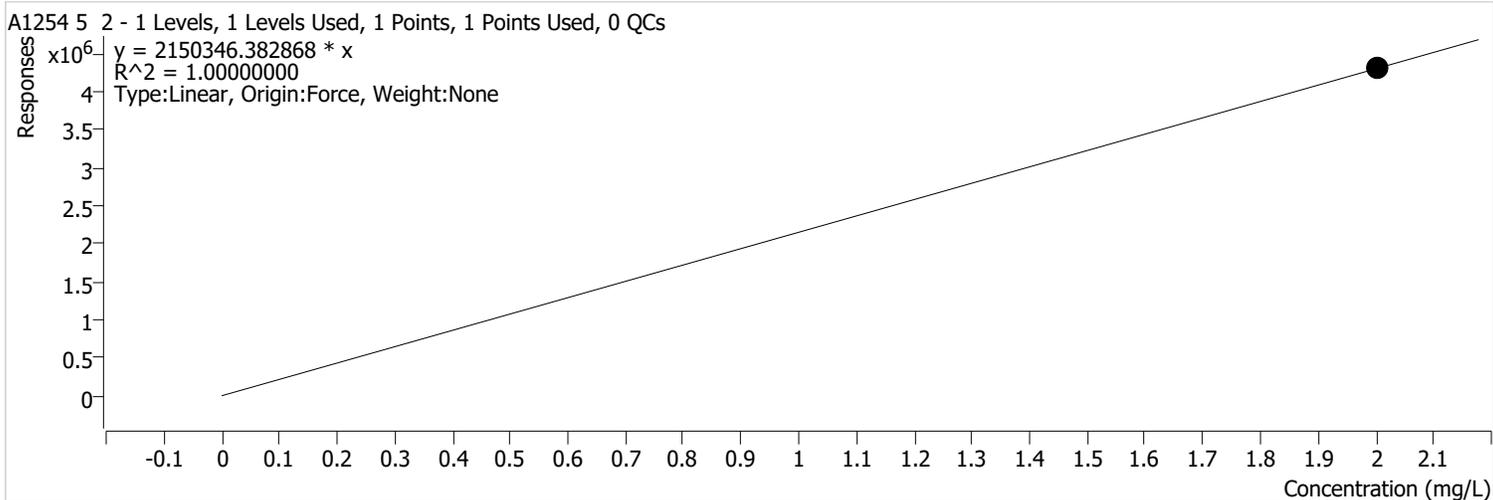


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	11714305	2.0000	5857152.5436	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:22 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:22 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 2 %RSE =



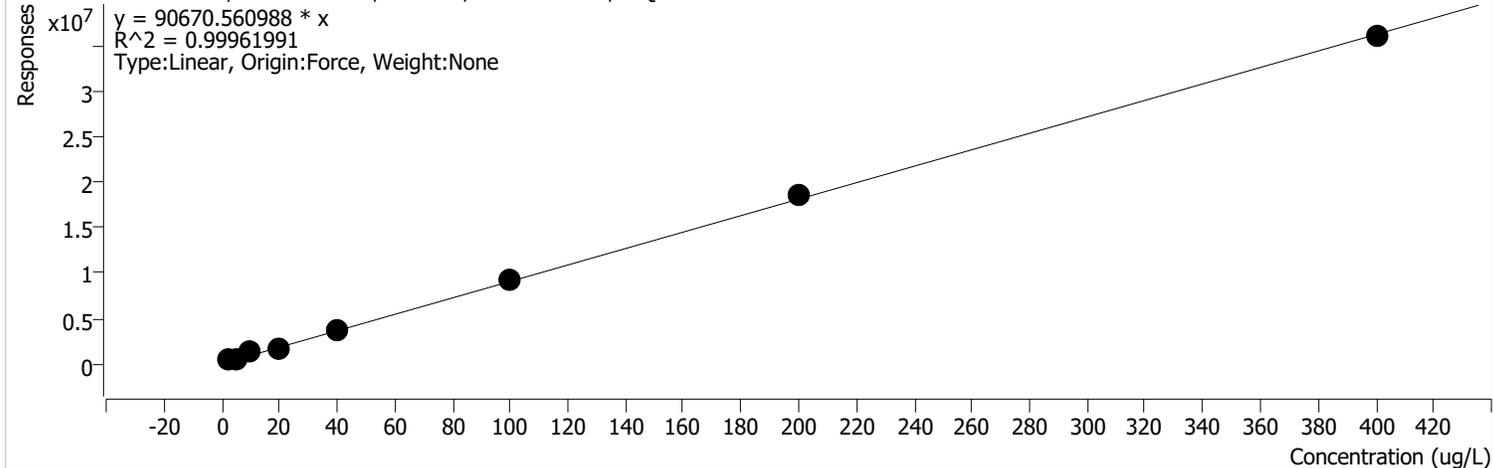
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041326.D	Calibration	9	x	4300693	2.0000	2150346.3829	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



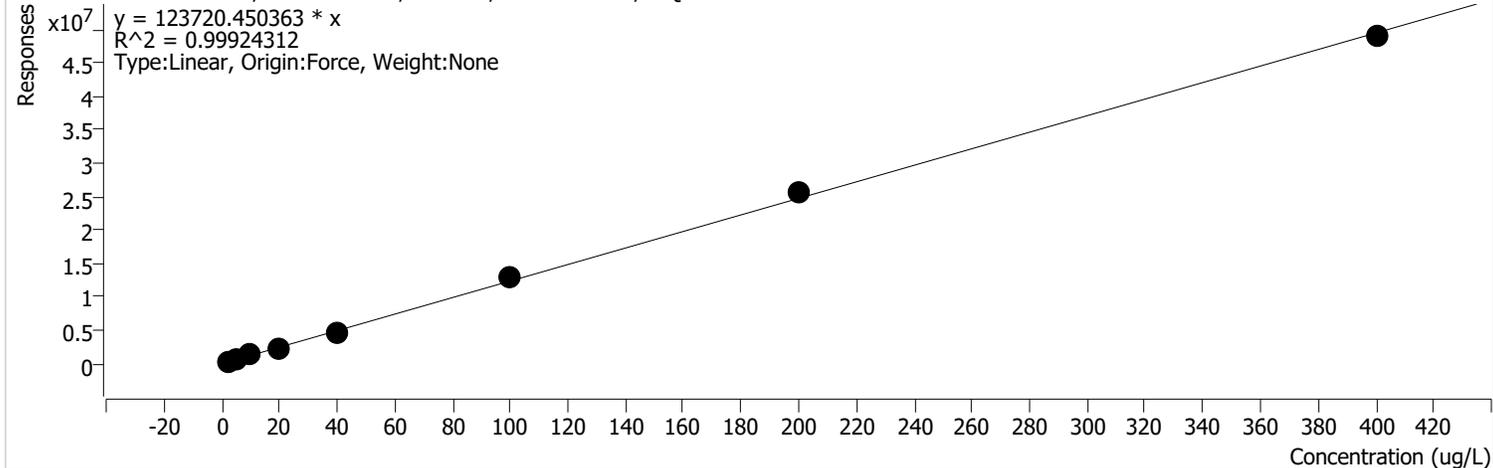
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	372999	2.5000	149199.5566	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	532640	5.0000	106527.9789	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1275338	10.0000	127533.8283	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1697421	20.0000	84871.0429	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3645921	40.0000	91148.0140	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9312484	100.0000	93124.8382	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18485909	200.0000	92429.5454	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36023737	400.0000	90059.3433	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1254 CAL.batch.bin		
Analysis Time	4/29/2022 3:22 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:24:34 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:22 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP 2 %RSE =

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



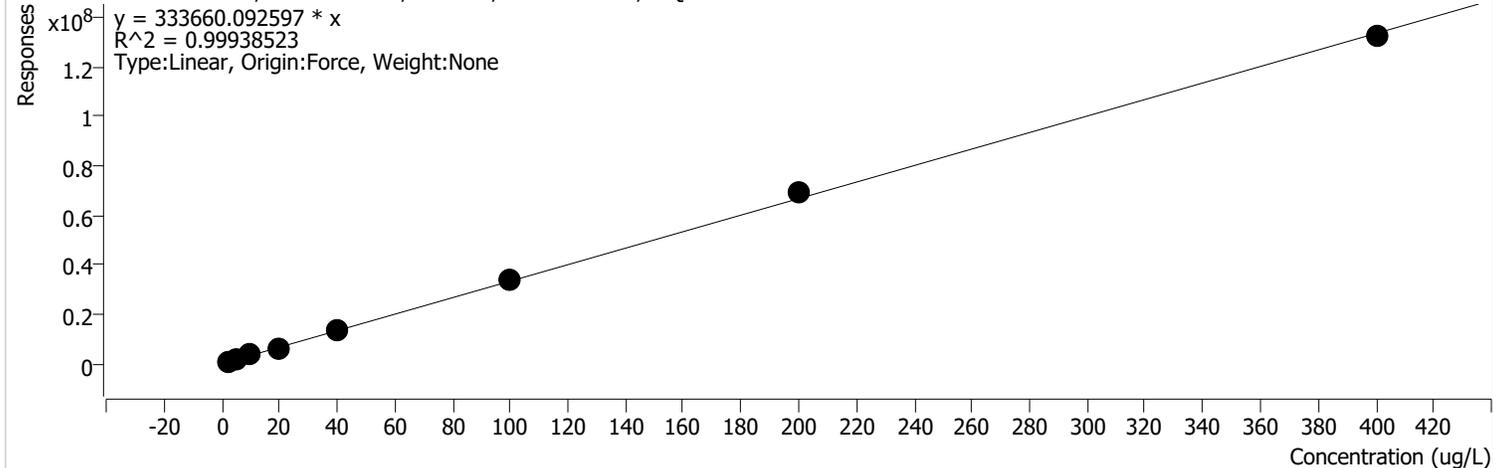
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	694737	5.0000	138947.4373	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1511942	10.0000	151194.1657	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2393050	20.0000	119652.4878	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4790557	40.0000	119763.9356	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12993931	100.0000	129939.3116	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25590904	200.0000	127954.5211	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48920429	400.0000	122301.0718	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:49 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX 2 %RSE = 12.5

Surr 1 TCMX 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



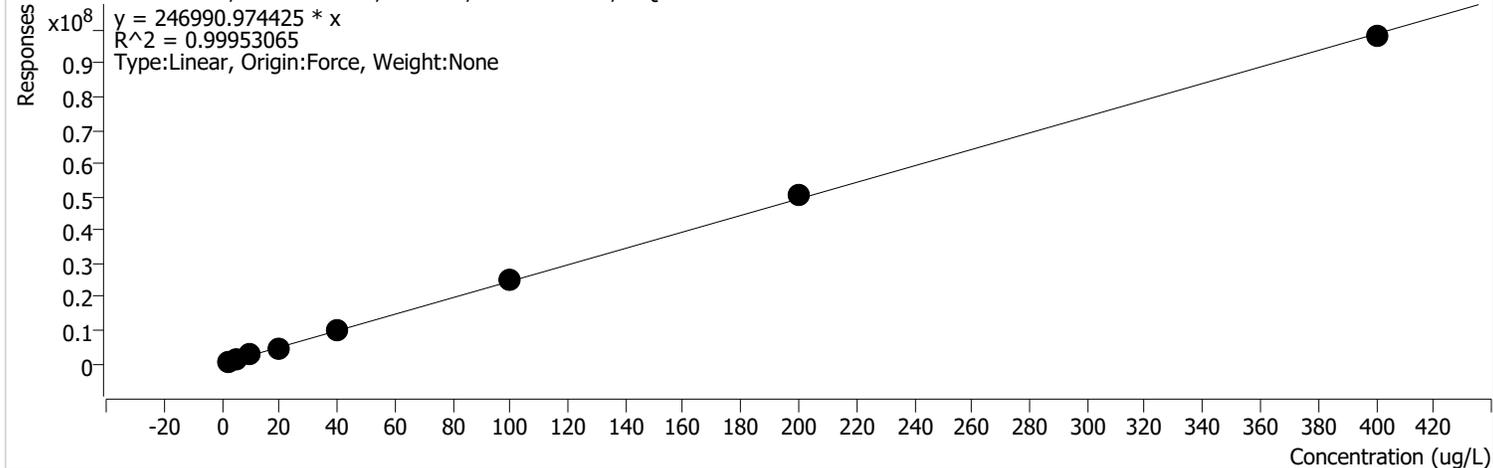
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	942622	2.5000	377048.6 158	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1423745	5.0000	284749.0 467	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	3945533	10.0000	394553.3 322	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	5739991	20.0000	286999.5 489	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	13192532	40.0000	329813.3 099	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	34332107	100.0000	343321.0 719	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	69021640	200.0000	345108.1 988	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	132126905	400.0000	330317.2 632	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE = 13.0

Surr 1 TCMX - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



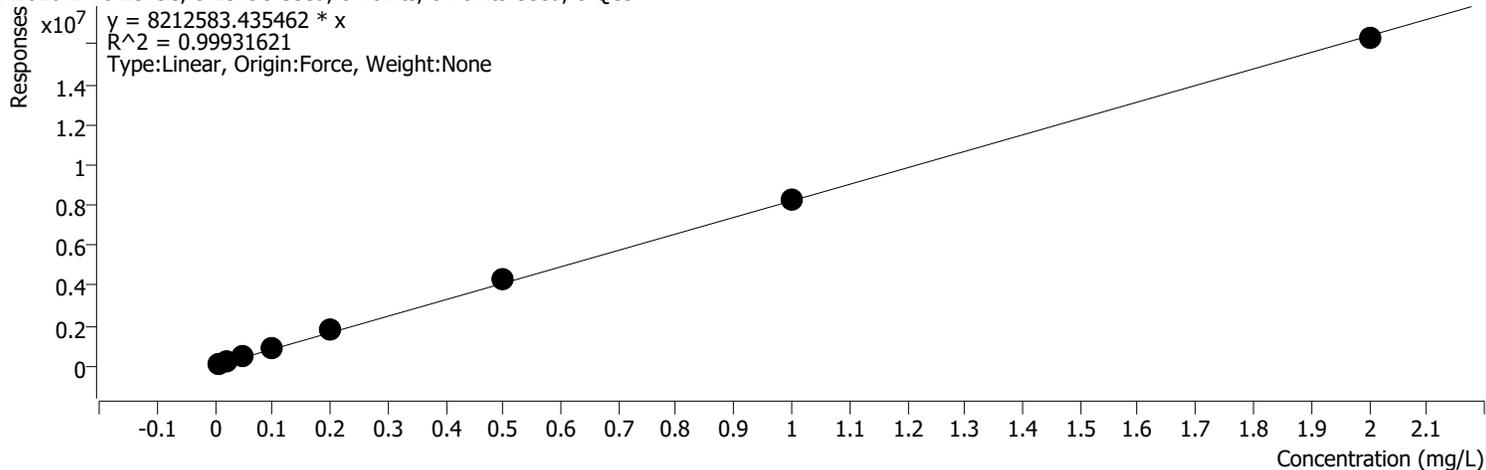
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	718542	2.5000	287416.8 121	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	1076230	5.0000	215246.0 110	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	2940074	10.0000	294007.3 579	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	4252024	20.0000	212601.2 104	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	9672795	40.0000	241819.8 869	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	25186698	100.0000	251866.9 802	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	50885755	200.0000	254428.7 745	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	97975382	400.0000	244938.4 551	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 1 %RSE = 36.0

A1016 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



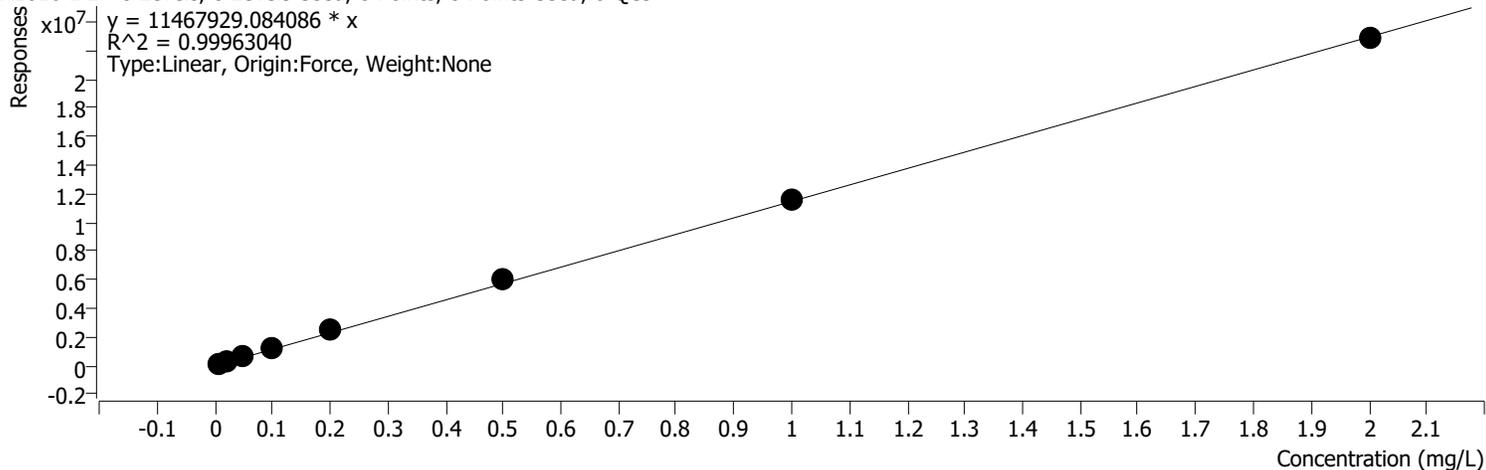
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	112110	0.0080	14013781.4463	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	228360	0.0200	11417984.2500	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	538830	0.0500	10776608.8616	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	906243	0.1000	9062427.8271	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1844640	0.2000	9223200.3259	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4334139	0.5000	8668278.7875	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	8321135	1.0000	8321135.1656	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	16285436	2.0000	8142717.8884	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 1 2 %RSE = 30.9

A1016 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

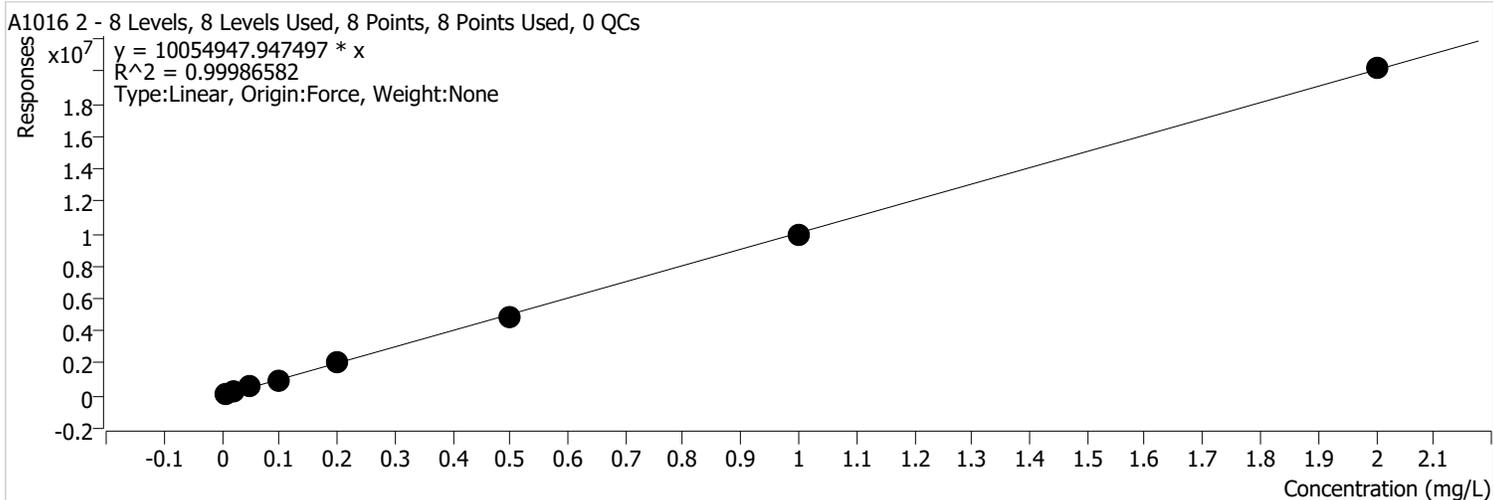


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	314450	0.0200	15722476 .0021	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	719764	0.0500	14395289 .9343	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1196078	0.1000	11960778 .5932	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2528109	0.2000	12640543 .7802	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5972564	0.5000	11945127 .8491	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11524790	1.0000	11524790 .3526	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22817132	2.0000	11408565 .9258	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 2 %RSE = 20.2



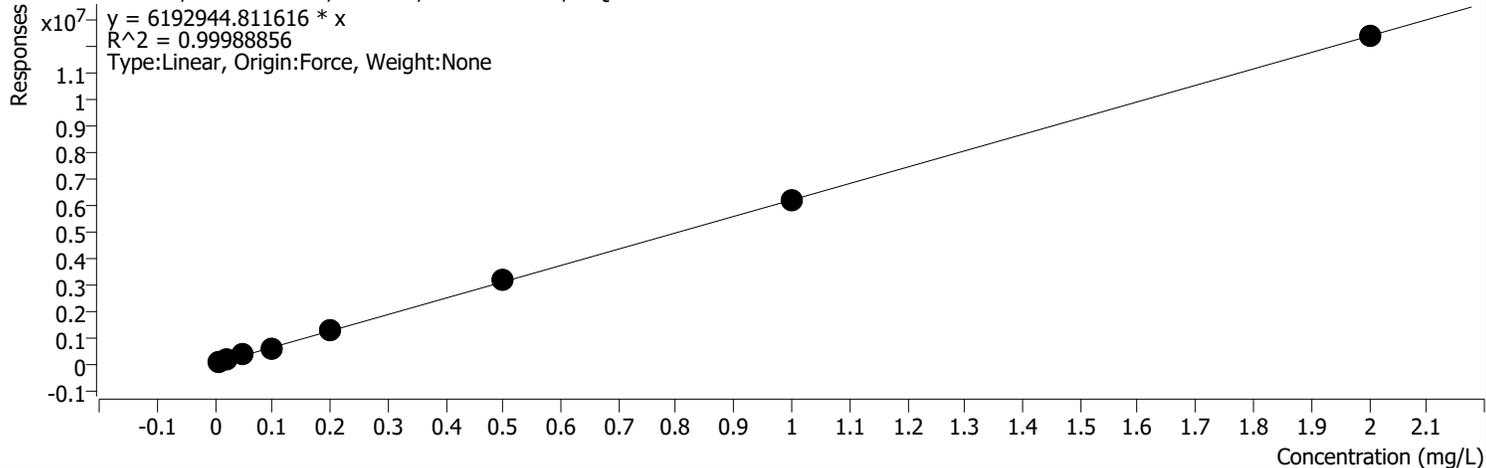
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	115750	0.0080	14468799 .7495	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	241308	0.0200	12065398 .1667	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	550702	0.0500	11014033 .0739	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	968767	0.1000	9687667. 1893	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2017646	0.2000	10088230 .0389	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4856074	0.5000	9712148. 7656	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9986204	1.0000	9986203. 8914	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	20186546	2.0000	10093273 .1965	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 3 %RSE = 26.1

A1016 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

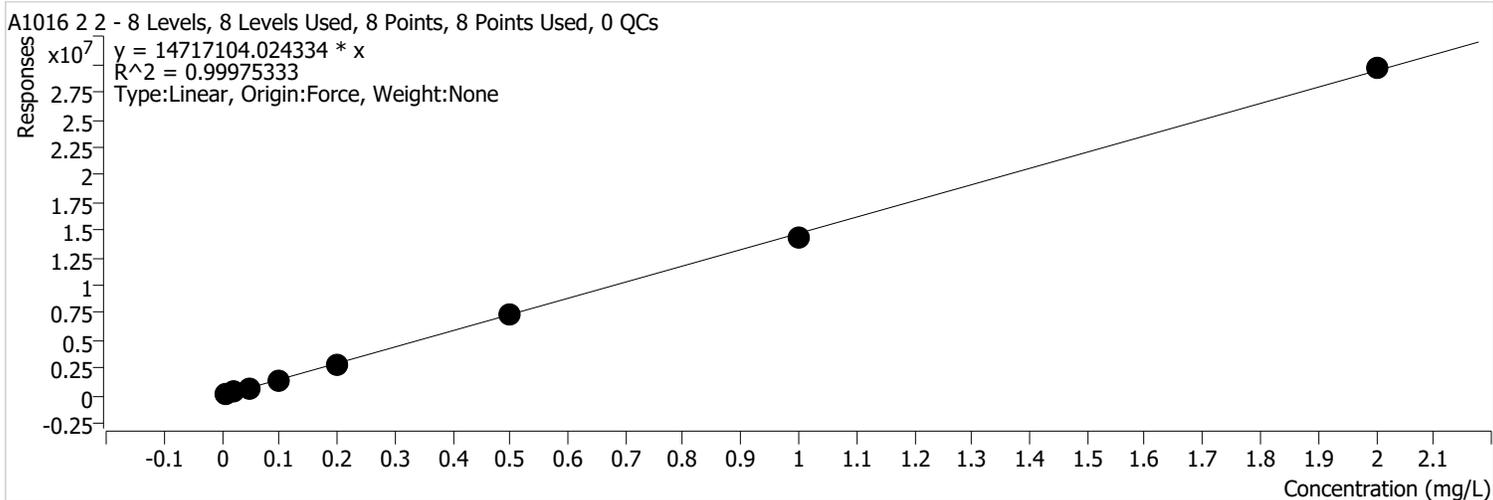


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	76620	0.0080	9577533.6478	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	157463	0.0200	7873160.7586	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	365761	0.0500	7315224.5937	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	617894	0.1000	6178942.0886	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1315605	0.2000	6578022.5000	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	3151570	0.5000	6303140.0194	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	6191061	1.0000	6191061.1351	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	12363578	2.0000	6181789.1603	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 2 2 %RSE = 14.9



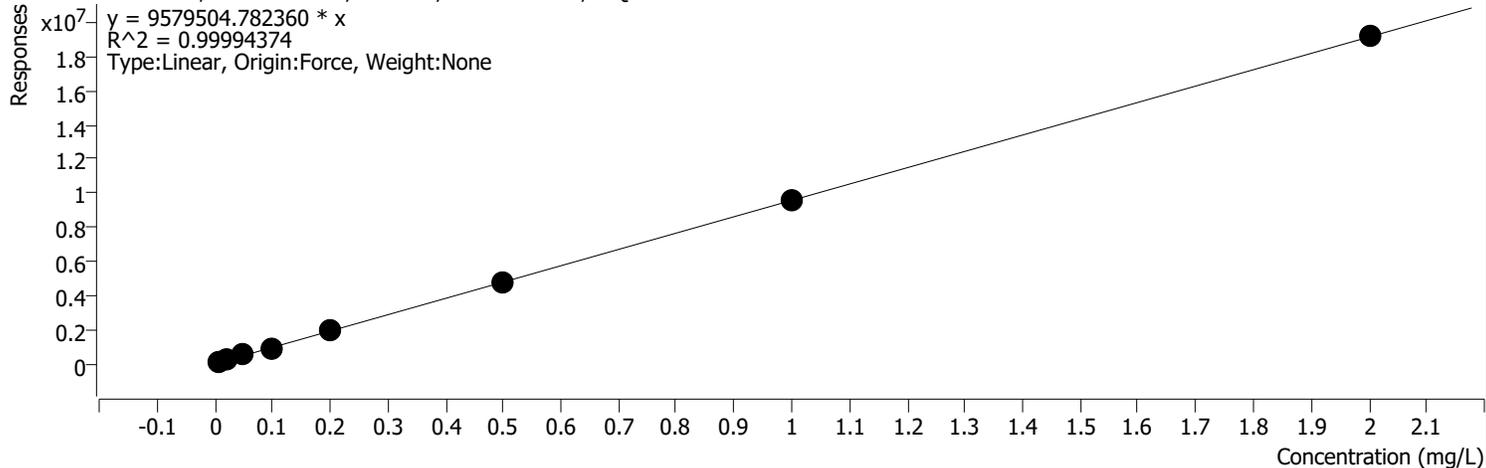
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	346952	0.0200	17347579 .9146	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	750232	0.0500	15004632 .4980	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1328864	0.1000	13288637 .4507	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2812118	0.2000	14060588 .2771	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	7248768	0.5000	14497536 .3852	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	14414980	1.0000	14414980 .3373	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	29631963	2.0000	14815981 .3465	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 3 2 %RSE = 24.9

A1016 3 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



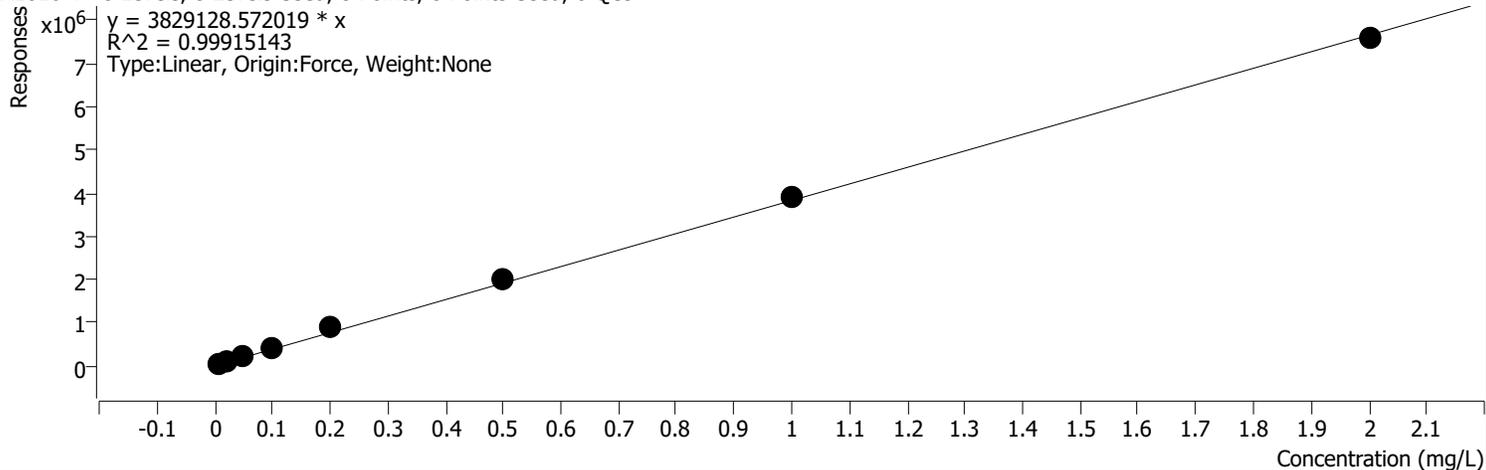
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	556230	0.0500	11124596.0286	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	937451	0.1000	9374505.8026	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1978288	0.2000	9891439.0024	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4785802	0.5000	9571603.6591	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	9531546	1.0000	9531546.0606	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	19176112	2.0000	9588056.1828	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 4 %RSE = 25.3

A1016 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

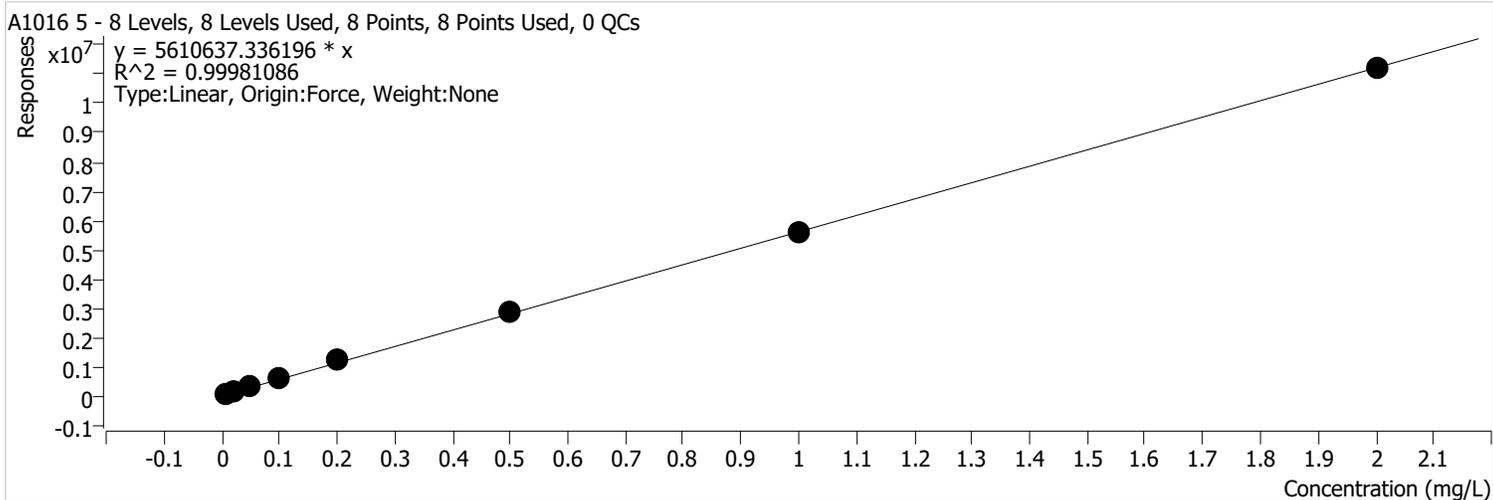


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	42792	0.0080	5348954.0729	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	103817	0.0200	5190832.0083	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	241114	0.0500	4822287.9931	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	418325	0.1000	4183254.2306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	870501	0.2000	4352503.0115	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2028811	0.5000	4057622.6633	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	3908042	1.0000	3908042.4384	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	7576438	2.0000	3788218.9540	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 5 %RSE = 30.9



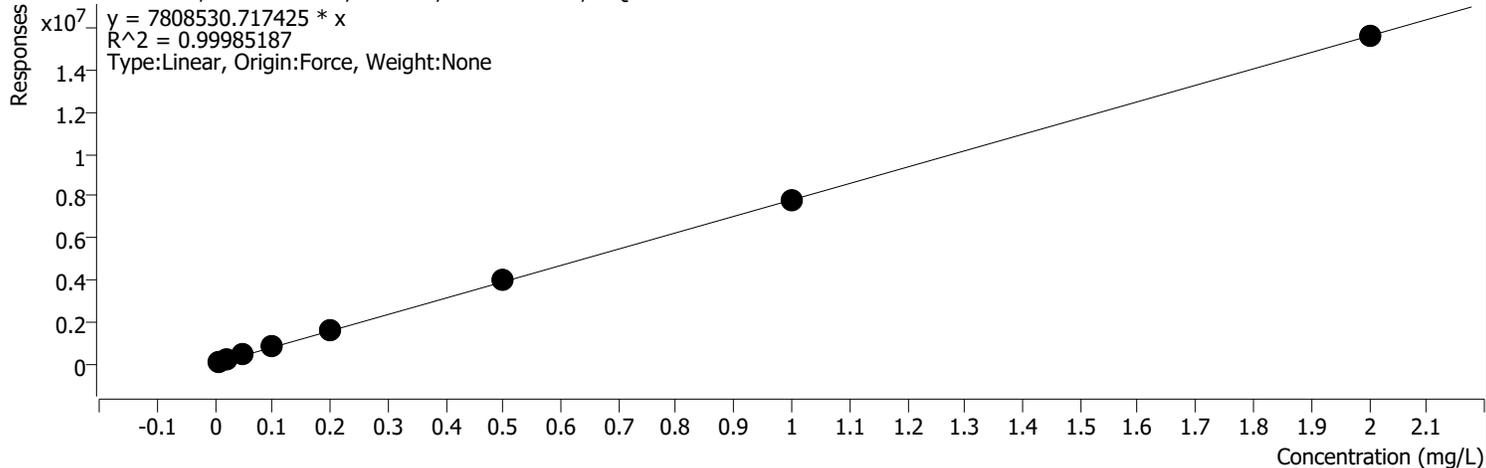
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	336583	0.0500	6731663.9624	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	595368	0.1000	5953678.0652	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1201502	0.2000	6007509.0314	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2881876	0.5000	5763751.3420	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5607086	1.0000	5607085.7381	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	11192299	2.0000	5596149.5047	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1016 4 2 %RSE = 28.5

A1016 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



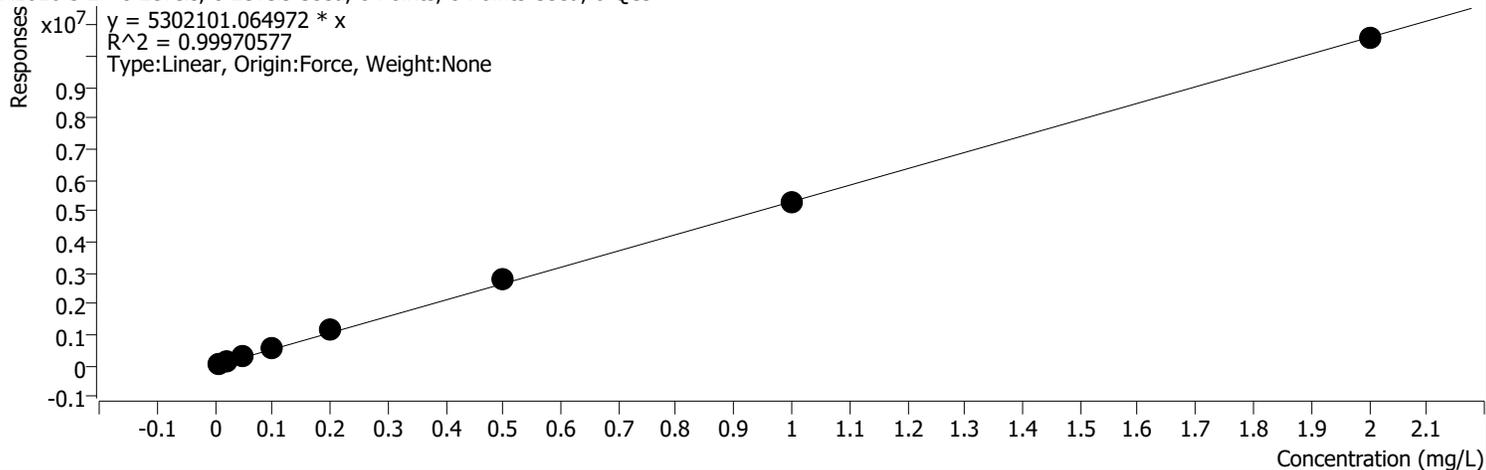
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	464327	0.0500	9286546.2687	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	805200	0.1000	8052004.0720	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1650348	0.2000	8251740.9091	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	4009055	0.5000	8018109.5864	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	7793888	1.0000	7793888.4230	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	15585549	2.0000	7792774.5129	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:50 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 5 2 %RSE = 29.5

A1016 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



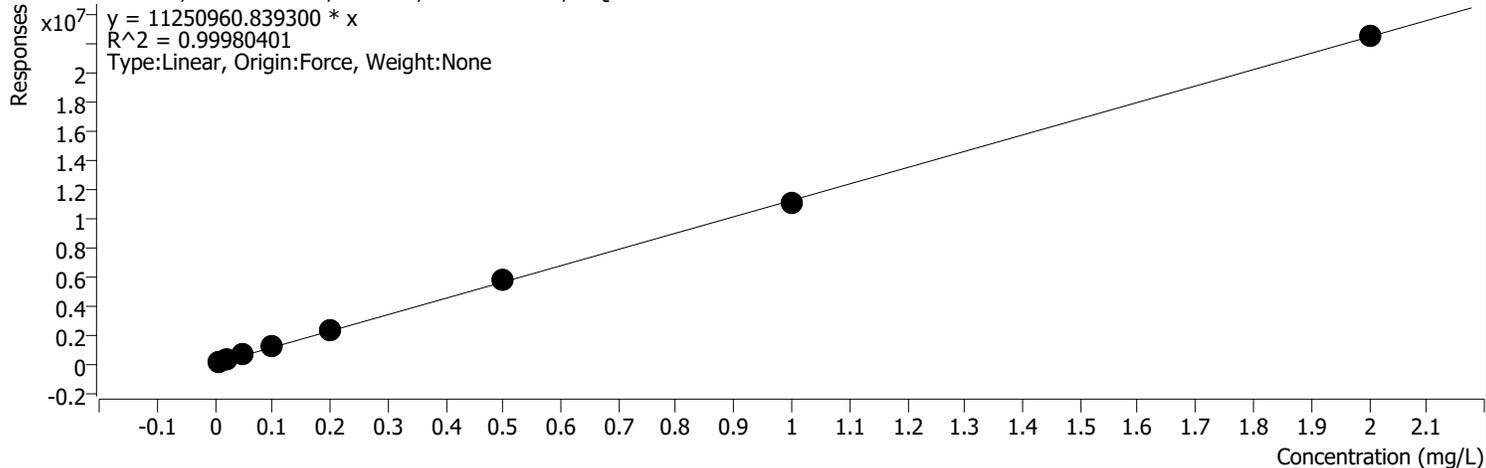
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	320733	0.0500	6414652.2730	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	558541	0.1000	5585413.6030	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	1154657	0.2000	5773283.0442	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	2756690	0.5000	5513380.5134	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	5304163	1.0000	5304163.3206	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	10564019	2.0000	5282009.6621	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 %RSE = 34.1

A1260 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



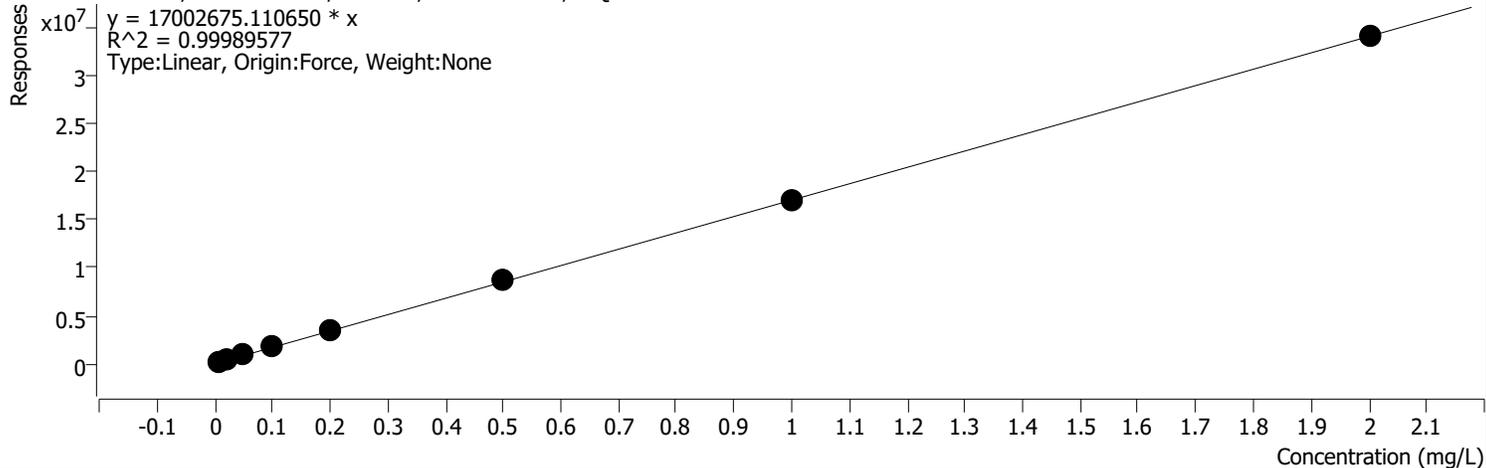
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	323996	0.0200	16199820 .7401	
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D:\GC-25\Data\220413\041315.D	Calibration	4	x	1152714	0.1000	11527142 .0306	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2357356	0.2000	11786779 .7966	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	5775073	0.5000	11550146 .7760	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	11119189	1.0000	11119188 .9754	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	22513688	2.0000	11256844 .1424	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 %RSE = 36.7

A1260 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



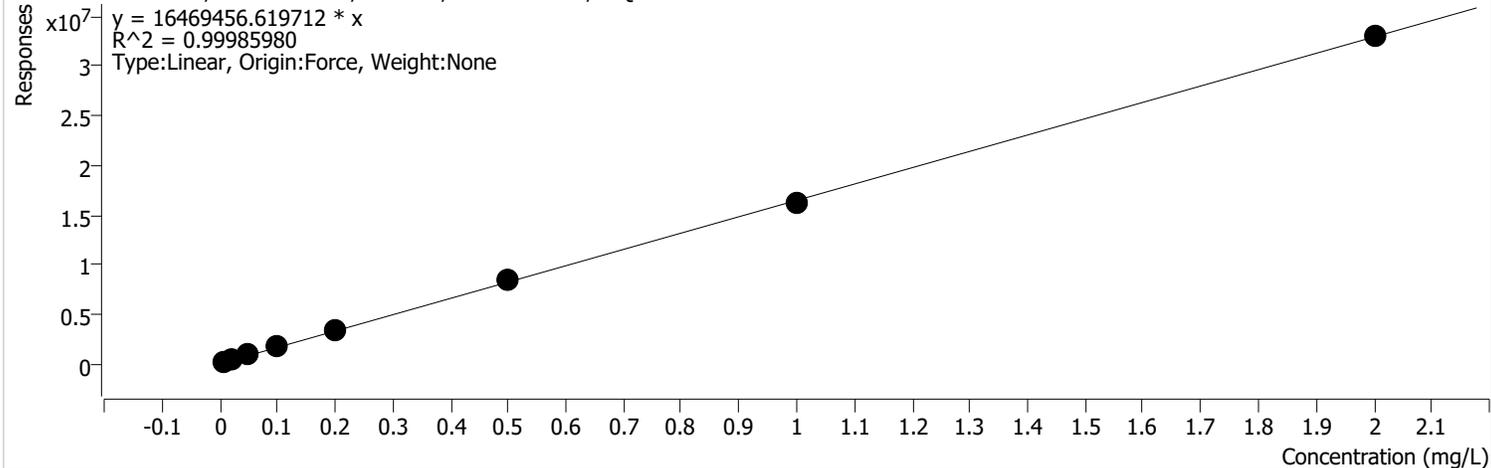
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	500993	0.0200	25049647 .1664	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1019787	0.0500	20395748 .7251	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1716673	0.1000	17166732 .2411	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3546553	0.2000	17732763 .7247	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8615685	0.5000	17231370 .0147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16960071	1.0000	16960071 .0329	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33976391	2.0000	16988195 .7248	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 1 2 %RSE = 35.2

A1260 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



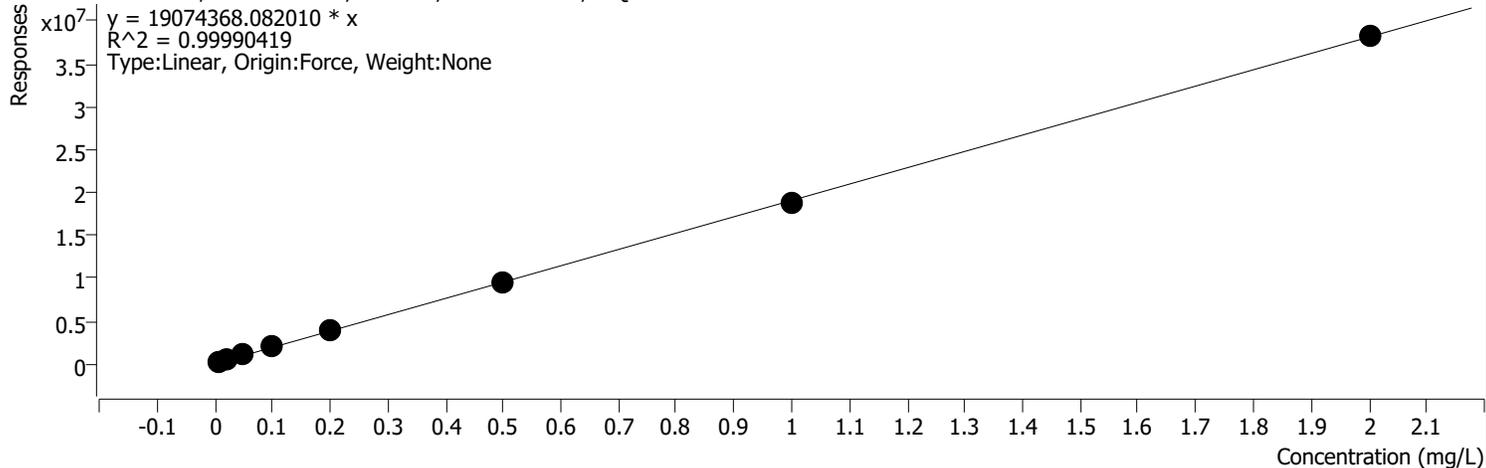
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	993964	0.0500	19879275 .1977	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1679623	0.1000	16796228 .8208	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3424692	0.2000	17123457 .6110	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8390744	0.5000	16781488 .4819	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16304297	1.0000	16304297 .3776	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32961700	2.0000	16480849 .8341	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 2 2 %RSE = 33.4

A1260 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



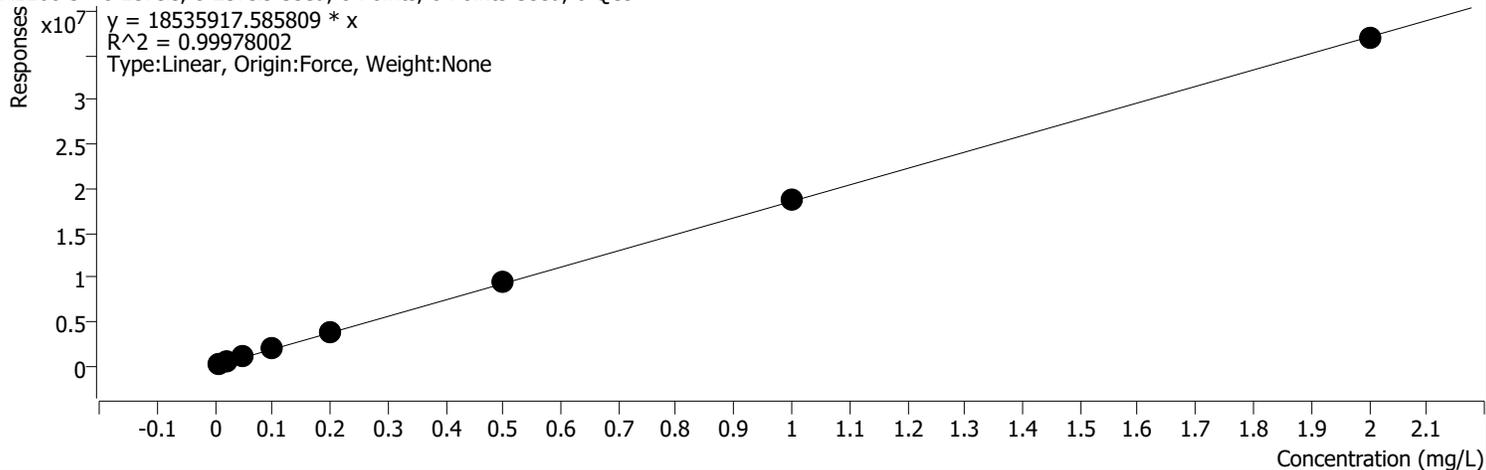
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	255701	0.0080	31962663 .8525	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	542396	0.0200	27119805 .6056	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1126306	0.0500	22526123 .9350	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1917763	0.1000	19177631 .9924	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3929096	0.2000	19645481 .8953	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9639218	0.5000	19278436 .7448	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18909963	1.0000	18909962 .6849	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	38187155	2.0000	19093577 .7381	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 3 %RSE = 38.4

A1260 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

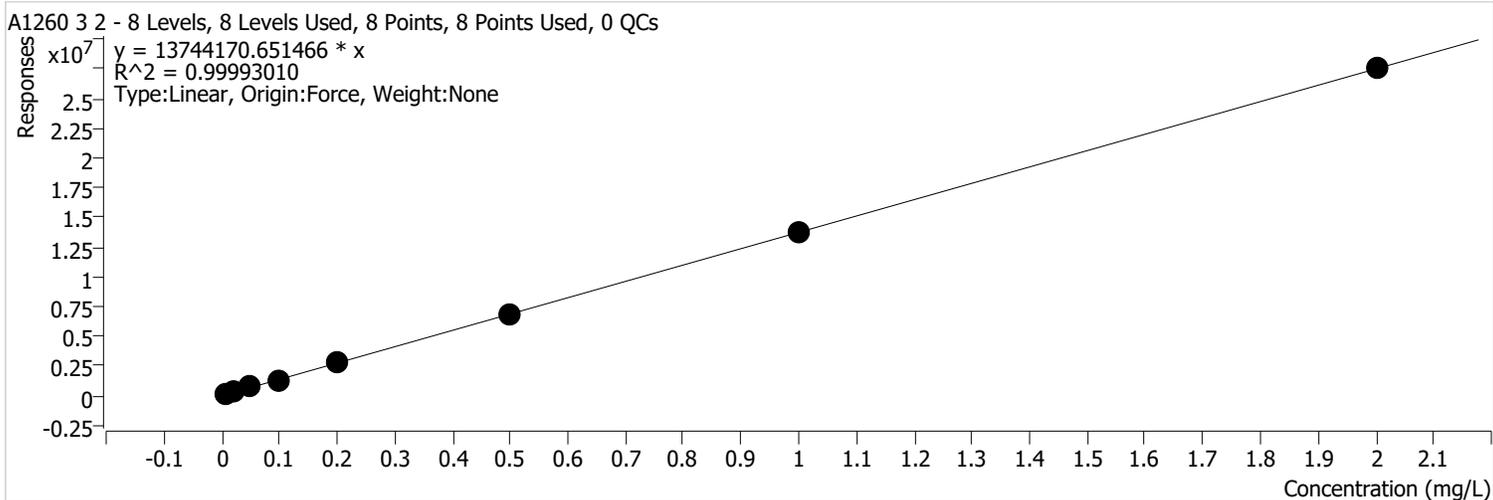


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	272241	0.0080	34030156 .8023	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	500600	0.0200	25030006 .2909	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1156654	0.0500	23133085 .3027	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1925978	0.1000	19259784 .4242	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3814063	0.2000	19070313 .6250	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9541649	0.5000	19083298 .9717	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18739557	1.0000	18739556 .5371	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	36879745	2.0000	18439872 .3374	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 3 2 %RSE = 39.3



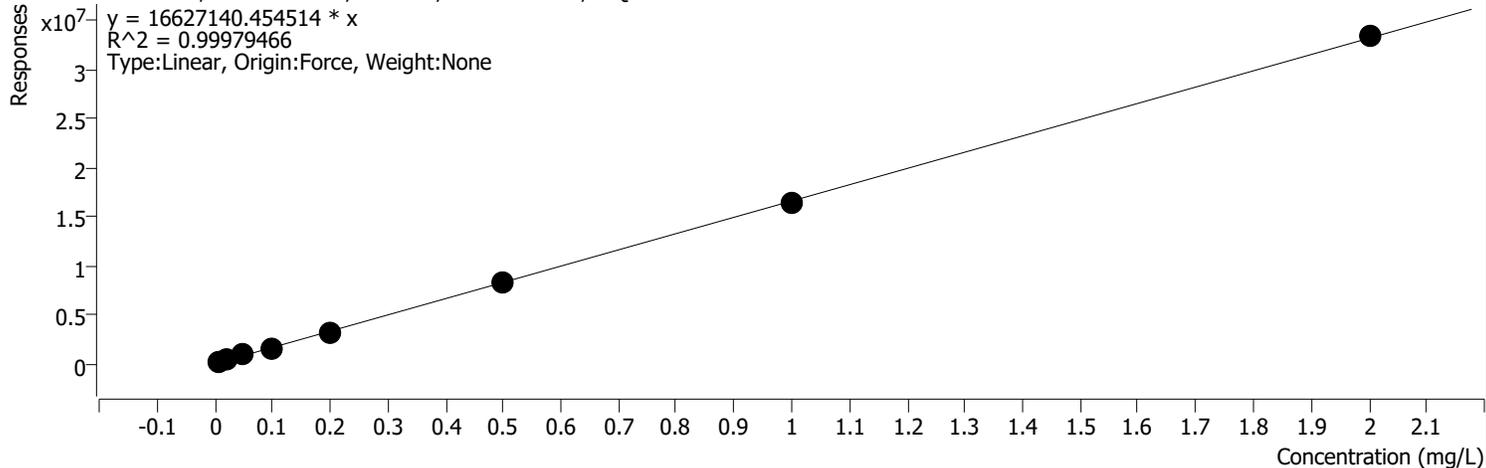
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	206214	0.0080	25776756 .3550	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	371692	0.0200	18584618 .6647	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	818370	0.0500	16367409 .0817	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1354862	0.1000	13548617 .7563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2787292	0.2000	13936459 .2534	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6925113	0.5000	13850226 .3000	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	13679146	1.0000	13679145 .8476	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	27500097	2.0000	13750048 .2804	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 2 %RSE = 43.6

A1260 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



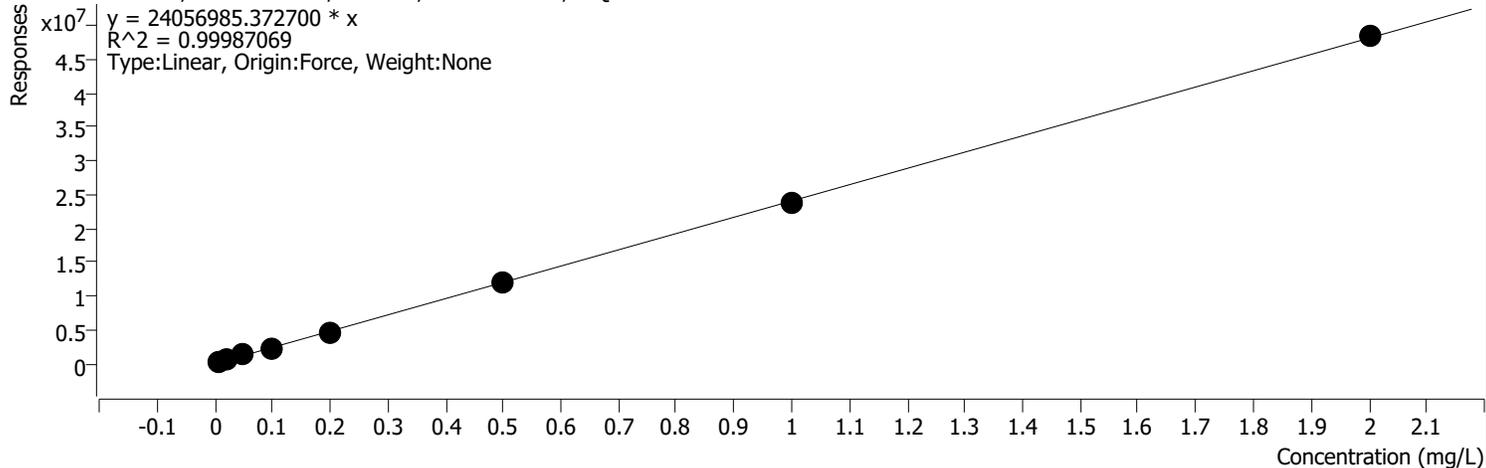
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	257196	0.0080	32149478 .1844	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	499048	0.0200	24952376 .0327	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	920835	0.0500	18416709 .2506	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1538572	0.1000	15385723 .1771	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3271131	0.2000	16355654 .4415	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8360699	0.5000	16721398 .1153	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16312487	1.0000	16312486 .7557	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	33407064	2.0000	16703531 .8173	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 4 %RSE = 27.2

A1260 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



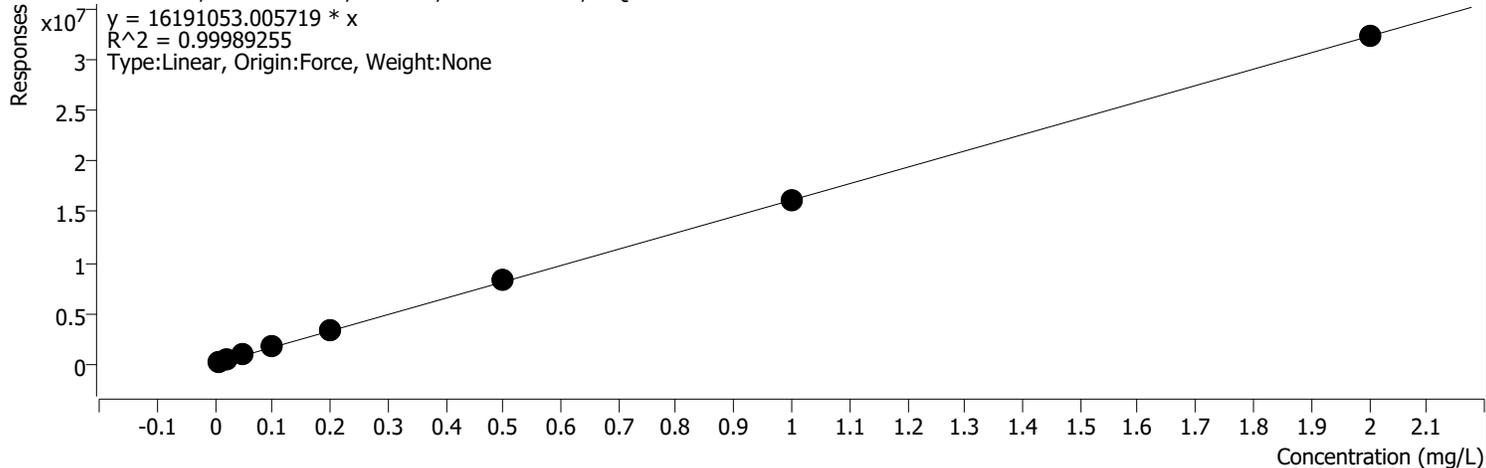
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	302335	0.0080	37791889 .8304	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	635074	0.0200	31753711 .4892	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1325475	0.0500	26509500 .0429	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2255490	0.1000	22554902 .1708	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4673162	0.2000	23365812 .4842	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	11932738	0.5000	23865475 .3147	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	23722477	1.0000	23722477 .1145	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48321453	2.0000	24160726 .5000	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 2 %RSE = 34.2

A1260 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



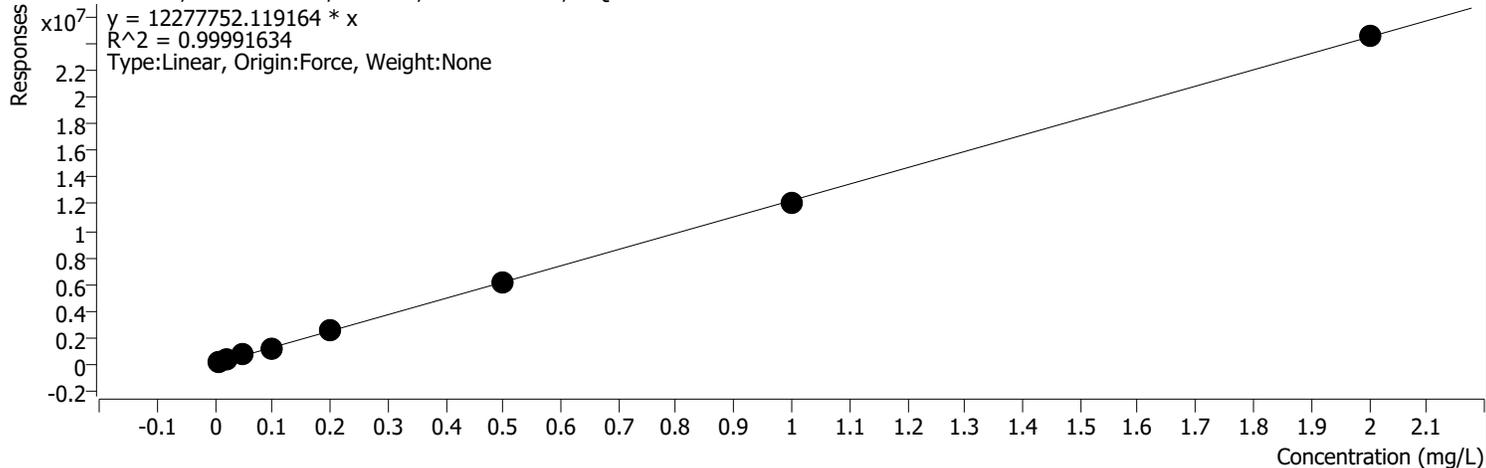
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	218868	0.0080	27358490 .7810	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	463500	0.0200	23174979 .8702	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	963871	0.0500	19277428 .8469	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1625067	0.1000	16250670 .2563	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3356413	0.2000	16782063 .2985	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	8258079	0.5000	16516158 .5250	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	16139707	1.0000	16139706 .9310	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	32349410	2.0000	16174705 .2268	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

A1260 5 %RSE = 32.4

A1260 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



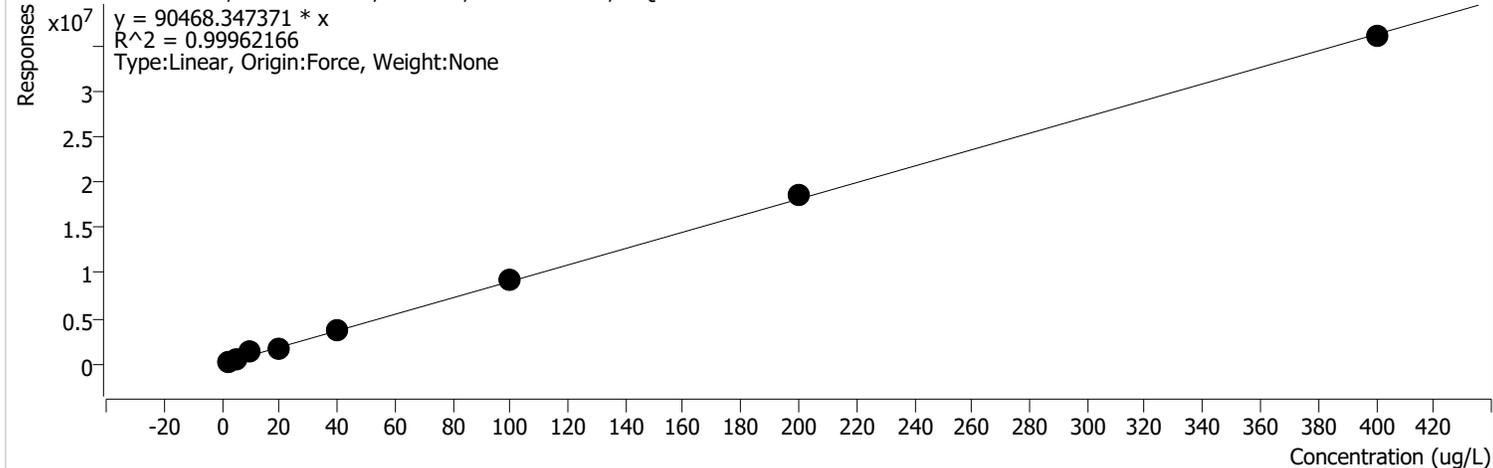
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	164480	0.0080	20559977 .6346	
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D:\GC-25\Data\220413\041314.D	Calibration	3	x	716937	0.0500	14338747 .3557	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1224889	0.1000	12248893 .3709	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	2489281	0.2000	12446404 .0927	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	6210873	0.5000	12421746 .4337	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	12169224	1.0000	12169223 .8748	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	24584755	2.0000	12292377 .4597	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin		
Analysis Time	4/29/2022 3:09 PM	Analyst Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Reporter Name	FA\GC1625
Last Calib Update	4/29/2022 3:08 PM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE = 24.9

Surr 2 DCBP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



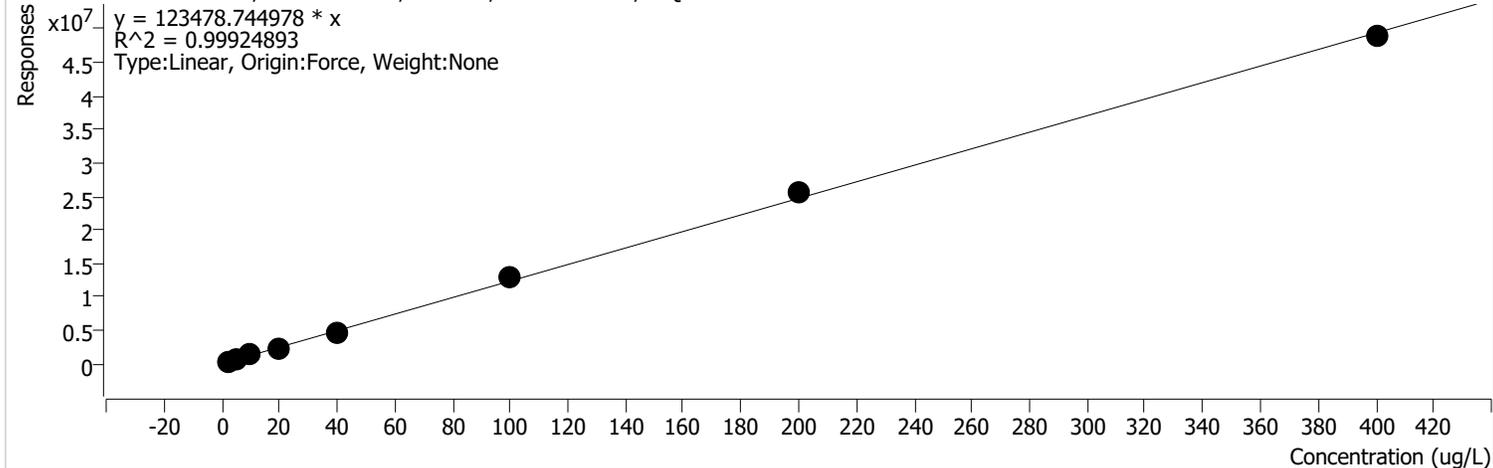
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-25\Data\220413\041313.D	Calibration	2	x	503182	5.0000	100636.4120	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1263808	10.0000	126380.7630	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	1687684	20.0000	84384.2079	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	3646289	40.0000	91157.2285	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	9307724	100.0000	93077.2381	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	18453061	200.0000	92265.3052	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	35935510	400.0000	89838.7746	

Calibration Report

Batch Path	D:\GC-25\Data\220413\QuantResults\1660 cal.batch.bin	Analyst Name	FA\GC1625
Analysis Time	4/29/2022 3:09 PM	Reporter Name	FA\GC1625
Report Time	4/29/2022 3:10:51 PM	Batch State	Processed
Last Calib Update	4/29/2022 3:08 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE = 21.7

Surr 2 DCBP 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-25\Data\220413\041312.D	Calibration	1	x	451184	2.5000	180473.5 958	
D:\GC-25\Data\220413\041313.D	Calibration	2	x	684257	5.0000	136851.4 754	
D:\GC-25\Data\220413\041314.D	Calibration	3	x	1513577	10.0000	151357.7 002	
D:\GC-25\Data\220413\041315.D	Calibration	4	x	2397630	20.0000	119881.5 211	
D:\GC-25\Data\220413\041316.D	Calibration	5	x	4770866	40.0000	119271.6 475	
D:\GC-25\Data\220413\041317.D	Calibration	6	x	12924698	100.0000	129246.9 796	
D:\GC-25\Data\220413\041318.D	Calibration	7	x	25564453	200.0000	127822.2 641	
D:\GC-25\Data\220413\041319.D	Calibration	8	x	48824670	400.0000	122061.6 744	

PCB Calibration

Date: 04/08/22 Cal Std (1016/1260): 26765 Concentration: 100 ug/mL
 Analyst: Sam Vapoi ICV Std (SS): 26724 Concentration: 100 ug/mL
 Aroclors: 1221: 20519 1232: 23017 1242: 23020 1248: 23021
 1254: 23A86 1262: 23022 1268: 20520 Conc: 1000 ug/mL
 Hexane: 6799 SURROGATE: 26572 Concentration: 20 ug/mL

Calibration Point (ppb)	Surr Cal Pt (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
2000	400	960	Cal Std	20	20	1	
1000	200	980	Cal Std	10	10	1	
500	100	990	Cal Std	5	5	1	
200	40	900	2000*	100	--	1	*Points 200, 100, and 50 will be made with prepared Point 2000
100	20	950	2000*	50	--	1	
50	10	975	2000*	25	--	1	
20	(5)	900	200**	100	--	1	**Points 20 and 10 will be made with prepared Point 200
10 8	(2.5)	950	200**	50 40	--	1	
ICB 82-041061 22	200	990	--	-- 82-041061 10	10	1	
ICV (1000 ppb)	200	980	ICV	10	10	1	

Note: Points 20 and 10 will contain surrogate as they are prepared from a mixed std, but will not be included in the surr curve.

Single Point Aroclors

Calibration Point	Surr Conc (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol (mL)	Comments
2000	200	988	Each Aroclor	2	10	1	

Signature and Date: Sam Vapoi 04/08/22

Signature: EM

DATA SET for Review - Deliverable Requirements

Total Metals by EPA Method 6020B

Fremont Analytical Work Order No. 2208415

Shannon & Wilson

Project Name: 8801- Excavations

This Data contains the following:

- Analytical Sequence Summary
- Calibration Information
- Tune Information

Dataset Report

User Name: ICPMS

Computer Name: FA-DT28

Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\

Report Date/Time: Tuesday, August 30, 2022 15:19:25

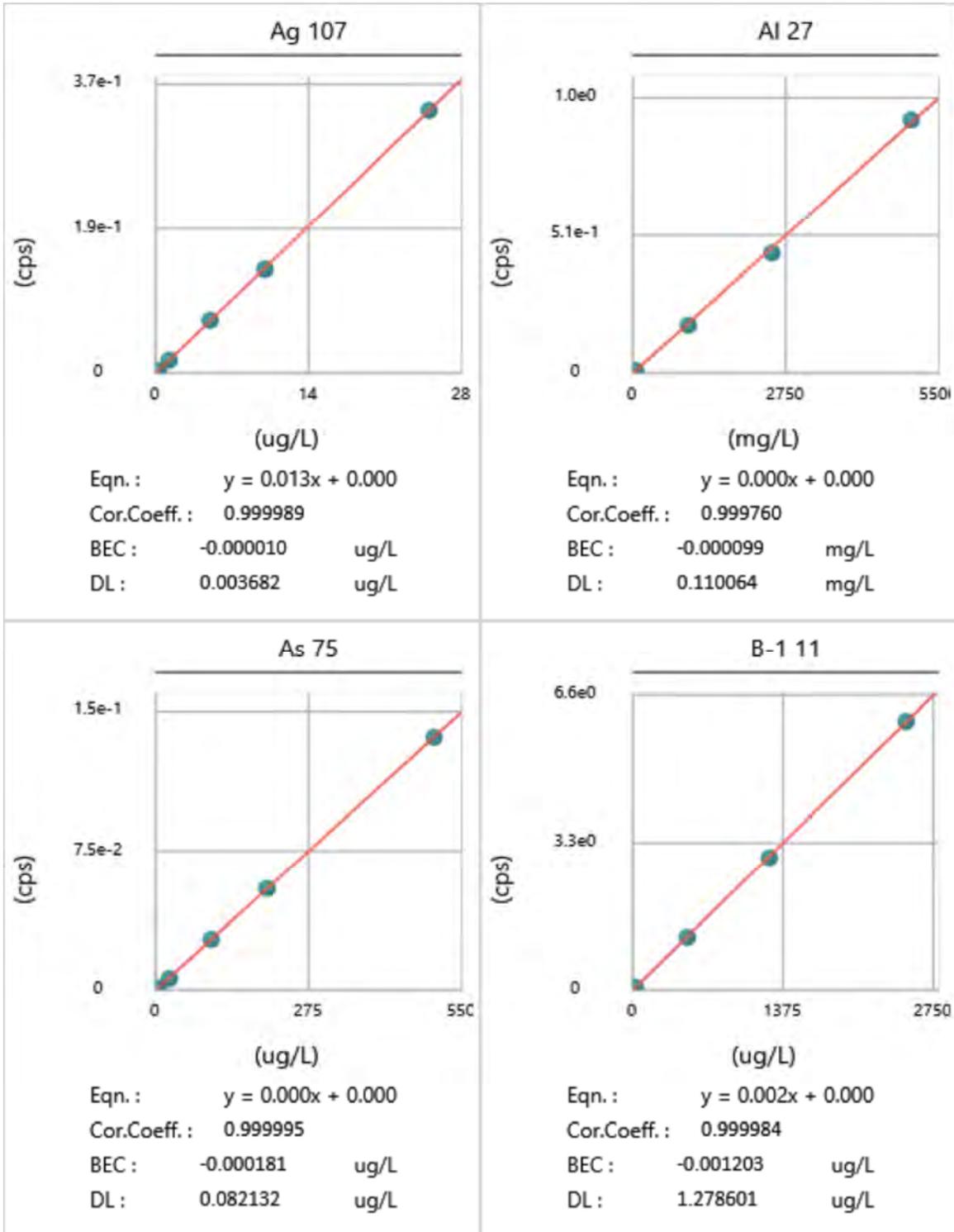
The Dataset

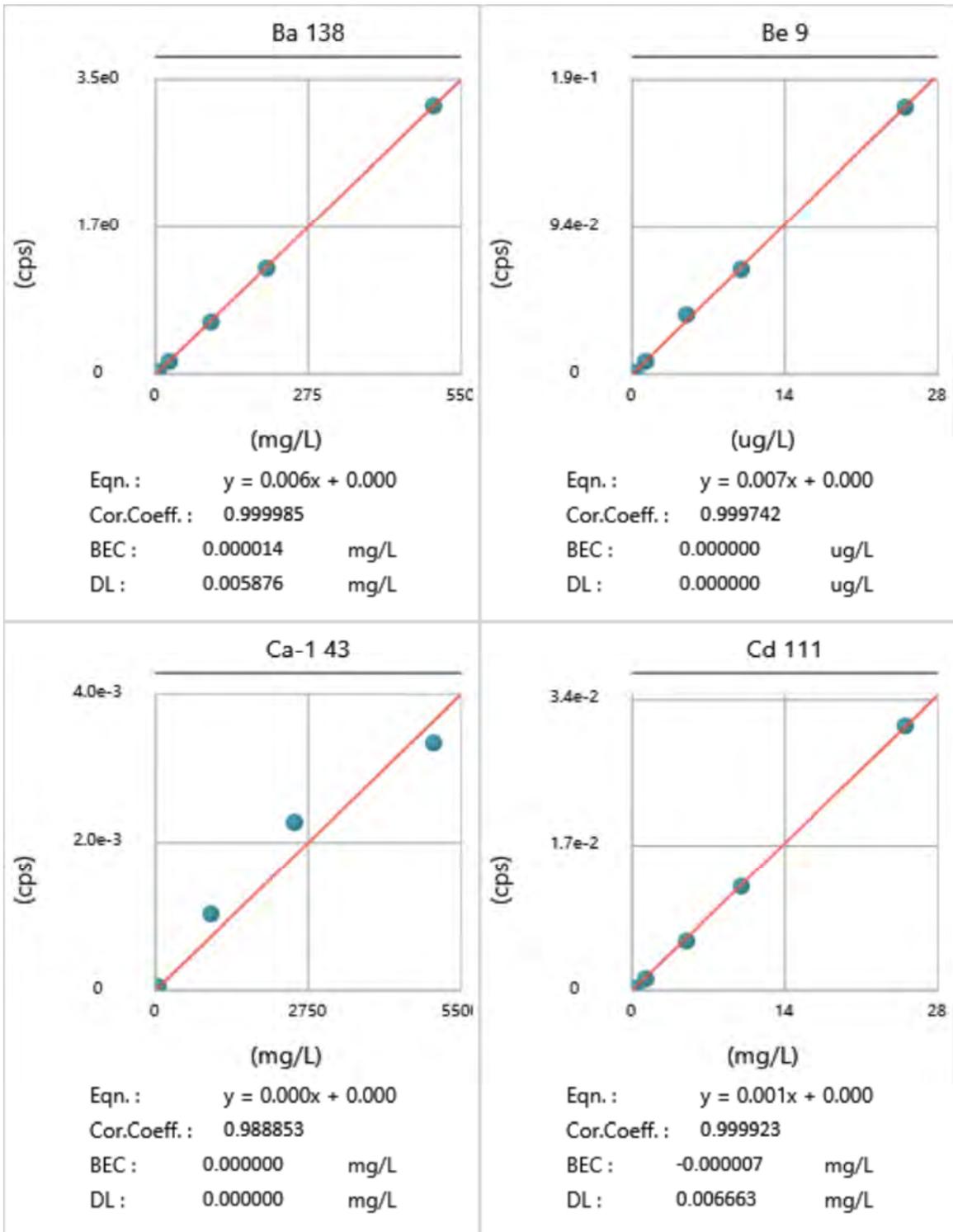
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	WASH	09:31:03 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	WASH	09:33:46 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	BLANK	09:36:28 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	Standard 1	09:53:51 Tue	30-AStandard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 2	09:59:06 Tue	30-AStandard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 3	10:04:21 Tue	30-AStandard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 4	10:09:36 Tue	30-AStandard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 5	10:14:51 Tue	30-AStandard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 6	10:20:06 Tue	30-AStandard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	Standard 7	10:25:21 Tue	30-AStandard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	ICB	10:41:06 Tue	30-AQC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	ICV	10:46:22 Tue	30-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	WASH	10:51:38 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	LCS-37573	11:26:41 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	2208345-002BDUP	11:37:11 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	2208345-002BDIL	11:42:25 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	2208345-001B	12:24:27 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	2208345-003B	12:29:41 Tue	30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	CCB	12:40:12 Tue	30-AQC Std #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
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	WASH	13:18:16 Tue	30-AQC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	
	ICB	13:20:59 Tue	30-AQC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\083022eh\	

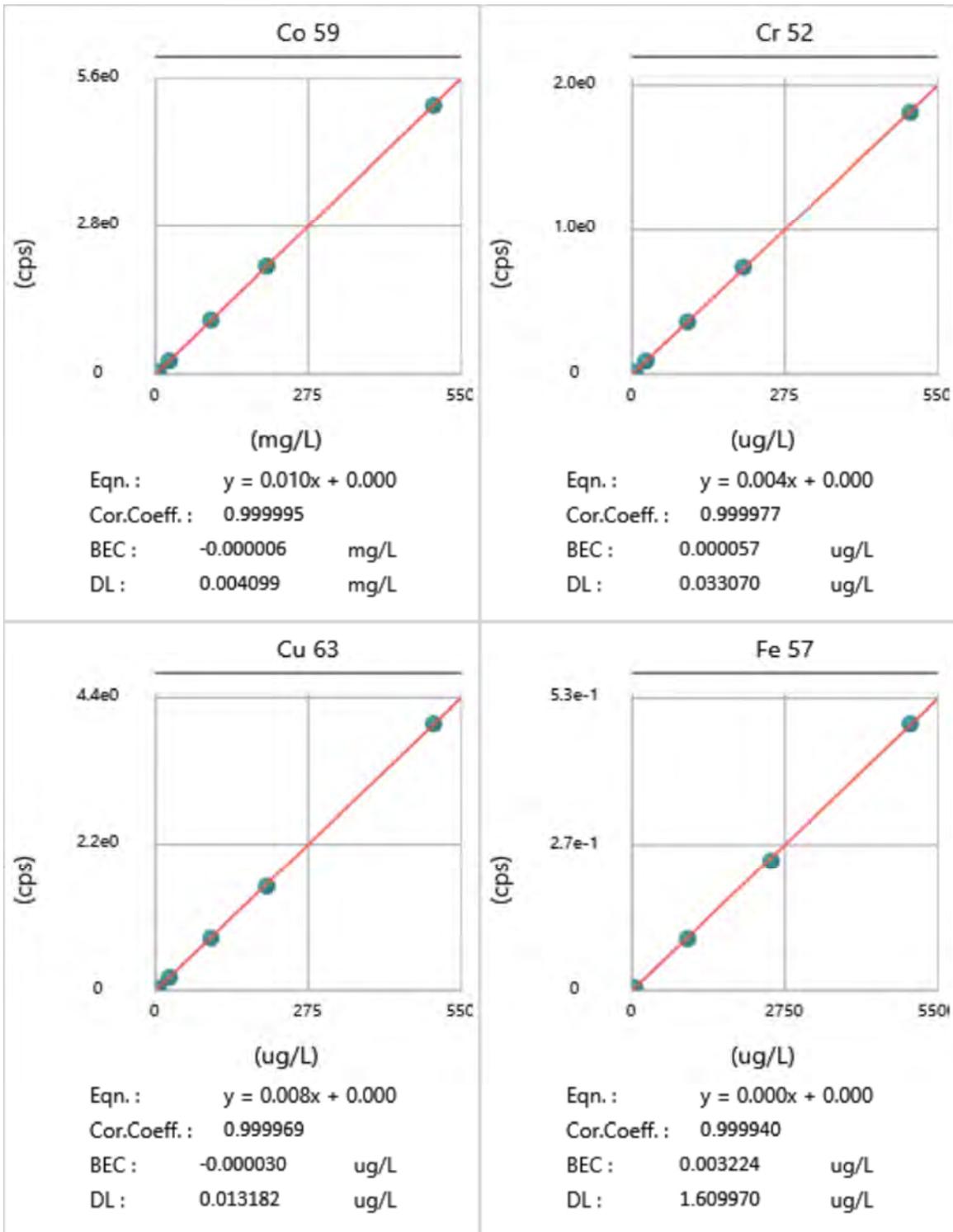
ICV	13:23:41 Tue 30-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
WASH	13:26:24 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
ICSA	13:35:52 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
WASH	13:38:34 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
WASH	13:41:17 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
2208354-014A 10X	13:44:00 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208339-001A 10X	13:46:43 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208355-001A 5X	13:49:25 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-DOD-6020-Sistix\ICPMS\DataSet\Aug2022\0830
2208355-002A 5X	13:52:08 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-DOD-6020-Sistix\ICPMS\DataSet\Aug2022\0830
WASH	13:54:50 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
CCV	13:57:33 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
CCB	14:00:15 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
MB2-37612	14:02:58 Tue 30-ASample	C:\Users\Public\DocumMBLK,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
MB-37612	14:05:40 Tue 30-ASample	C:\Users\Public\DocumMBLK,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
LCS-37612	14:08:22 Tue 30-ASample	C:\Users\Public\DocumLCS,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-002A	14:11:04 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-002ADUP	14:13:46 Tue 30-ASample	C:\Users\Public\DocumDUP,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-002AMS	14:16:28 Tue 30-ASample	C:\Users\Public\DocumMS,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-002AMSD	14:19:11 Tue 30-ASample	C:\Users\Public\DocumMSD,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-003A	14:21:53 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208395-004A	14:24:35 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
2208165-001A	14:27:17 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-TCLP . gistix\ICPMS\DataSet\Aug2022\0830
CCV	14:30:00 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
CCB	14:32:42 Tue 30-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
MB-37615	14:35:25 Tue 30-ASample	C:\Users\Public\DocumMBLK,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
LCS-37615	14:38:07 Tue 30-ASample	C:\Users\Public\DocumLCS,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-017A	14:40:49 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-017ADIL	14:43:32 Tue 30-ASample	C:\Users\Public\DocumSD,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-017AMS	14:46:14 Tue 30-ASample	C:\Users\Public\DocumMS,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-017AMSD	14:48:56 Tue 30-ASample	C:\Users\Public\DocumMSD,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-017APDS	14:51:38 Tue 30-ASample	C:\Users\Public\DocumPDS,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
2208415-018A	14:54:21 Tue 30-ASample	C:\Users\Public\DocumSAMP,M-6020-S . gistix\ICPMS\DataSet\Aug2022\0830
CCV	14:57:05 Tue 30-AQC Std #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830
CCB	14:59:47 Tue 30-AQC Std #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Aug2022\0830

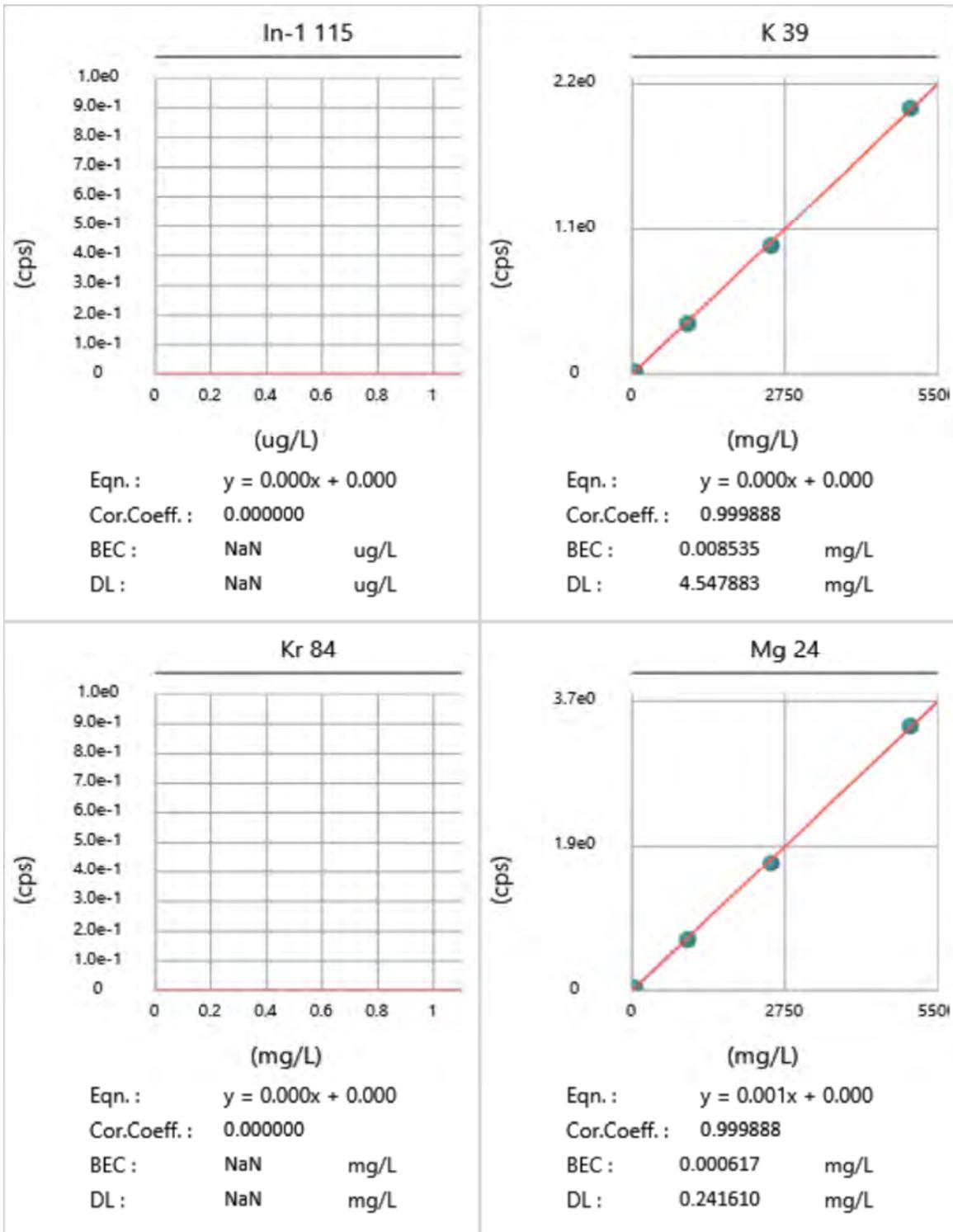


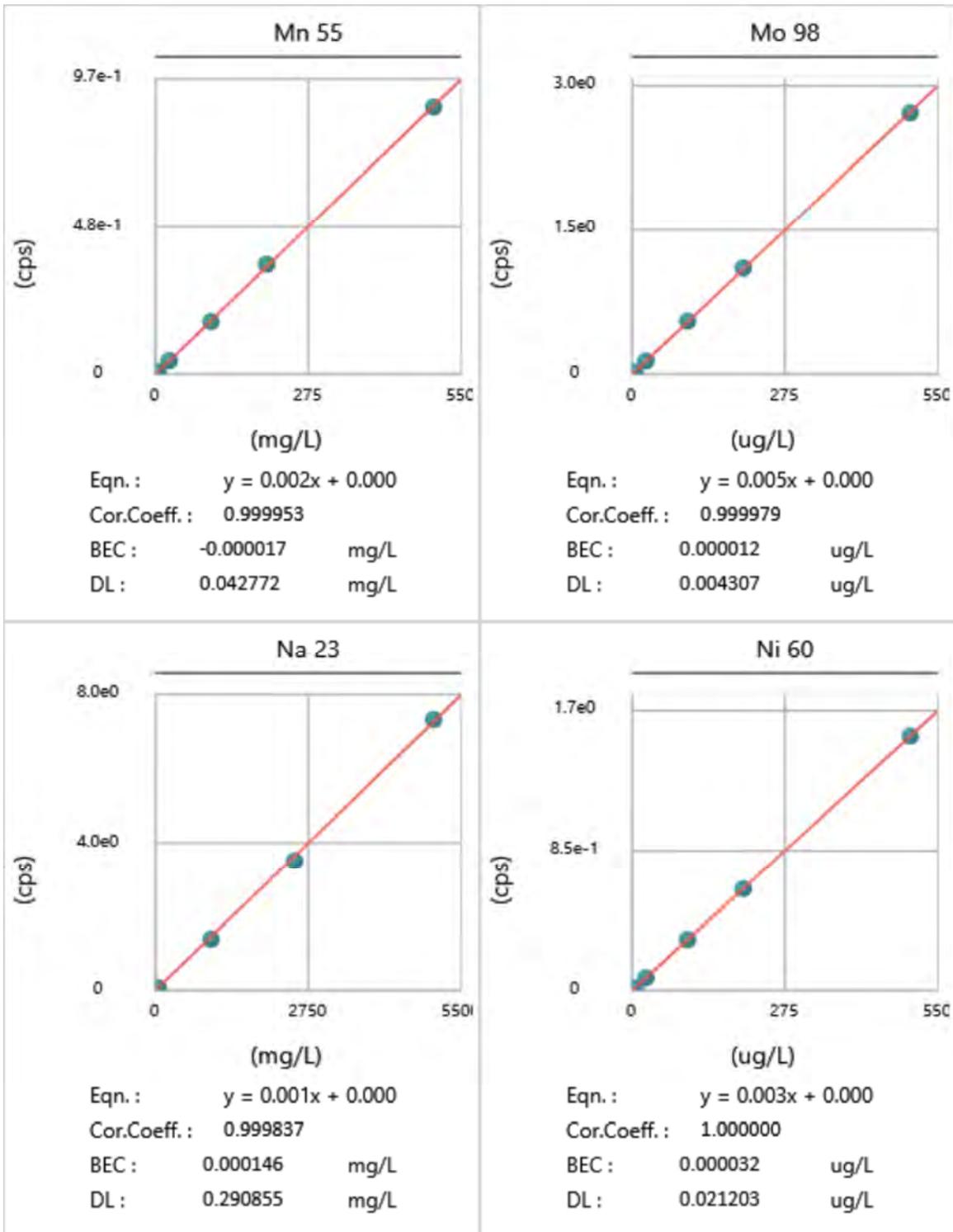
Calibration

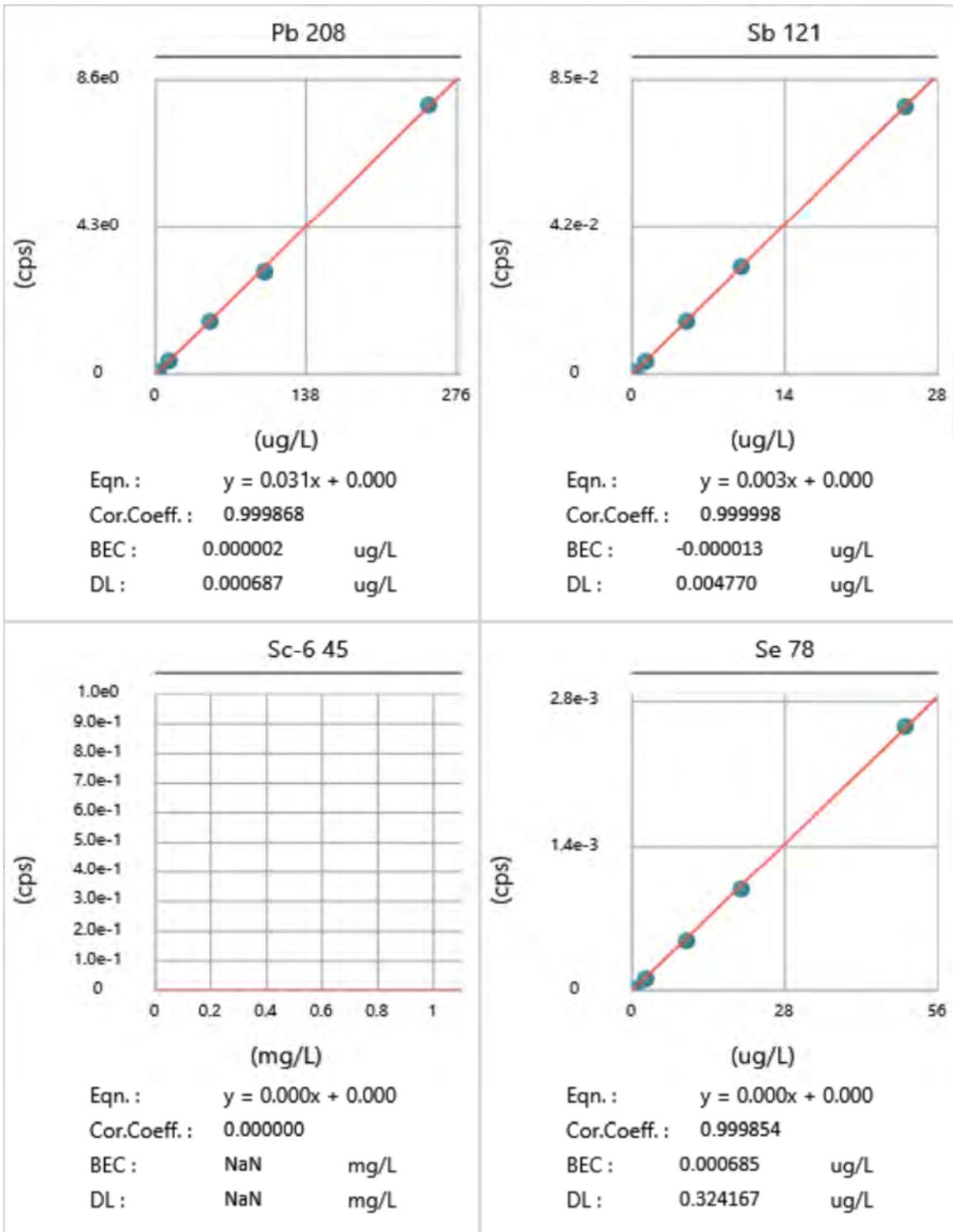


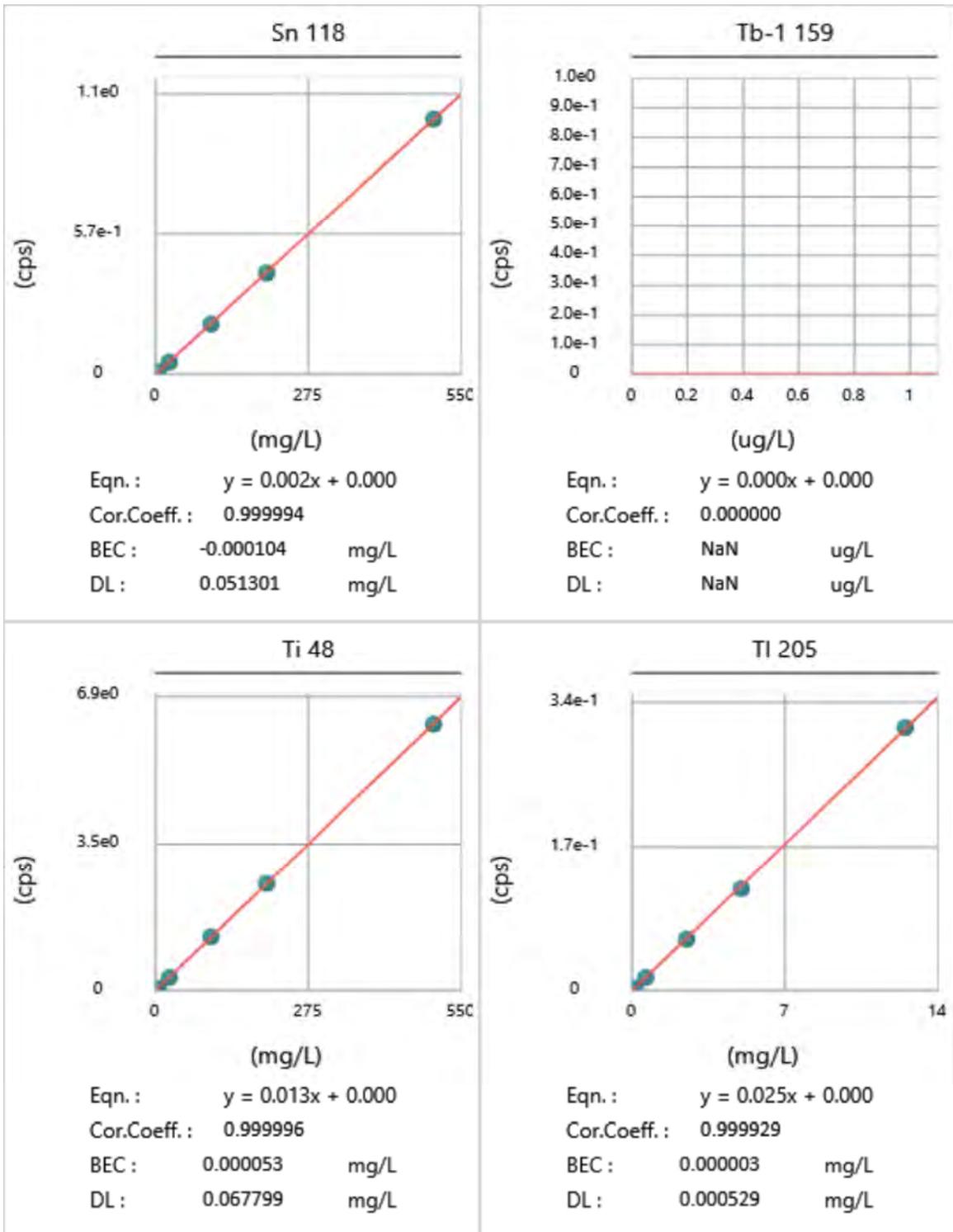


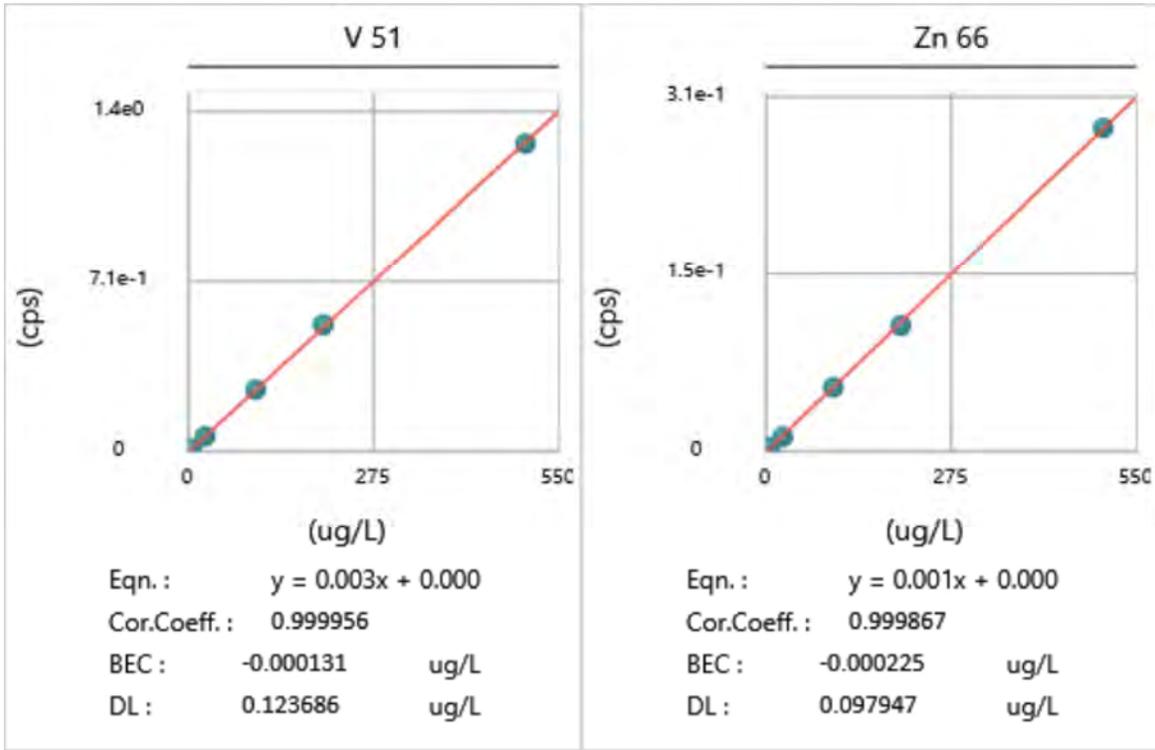












Quantitative Analysis Calibration Report

File Name: 083022ehKED.cal
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\083022ehKED.cal
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Li	6.015	Linear Thru Zero	0.00	0.00	0.000000
Be	9.012	Linear Thru Zero	0.01	0.00	0.999742
B-1	11.009	Linear Thru Zero	0.00	0.00	0.999984
Ti	47.948	Linear Thru Zero	0.01	0.00	0.999996
Se	77.917	Weighted Linear	0.00	-0.00	0.999808
Sb	120.904	Linear Thru Zero	0.00	0.00	0.999998
Mo	97.906	Linear Thru Zero	0.01	0.00	0.999979
Rh-1	102.905	Linear Thru Zero	0.00	0.00	0.000000
Ag	106.905	Linear Thru Zero	0.01	0.00	0.999989
Na	22.990	Linear Thru Zero	0.00	0.00	0.999837
Ca-1	42.959	Linear Thru Zero	0.00	0.00	0.988853
Mg	23.985	Linear Thru Zero	0.00	0.00	0.999888
Al	26.982	Linear Thru Zero	0.00	0.00	0.999760
Mn	54.938	Linear Thru Zero	0.00	0.00	0.999953
Sn	117.902	Linear Thru Zero	0.00	0.00	0.999994
Ba	137.905	Linear Thru Zero	0.01	0.00	0.999985
Cd	110.904	Linear Thru Zero	0.00	0.00	0.999923
K	38.964	Linear Thru Zero	0.00	0.00	0.999888
Co	58.933	Linear Thru Zero	0.01	0.00	0.999995
Sc-6	44.956	Linear Thru Zero	0.00	0.00	0.000000
V	50.944	Linear Thru Zero	0.00	0.00	0.999956
Cr	51.941	Linear Thru Zero	0.00	0.00	0.999977
Fe	56.935	Linear Thru Zero	0.00	0.00	0.999940
Ni	59.933	Linear Thru Zero	0.00	0.00	1.000000
Cu	62.930	Linear Thru Zero	0.01	0.00	0.999969
Kr	83.912	Linear Thru Zero	0.00	0.00	0.000000
Zn	65.926	Weighted Linear	0.00	0.00	0.999516
As	74.922	Linear Thru Zero	0.00	0.00	0.999995
Rh-2	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb-1	158.925	Linear Thru Zero	0.00	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.02	0.00	0.999929
Ho-1	164.930	Linear Thru Zero	0.00	0.00	0.000000
Pb	207.977	Linear Thru Zero	0.03	0.00	0.999868



Tunes

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\wizard\SmartTune\FA_SmartTune Daily.swz

Start Time: 8/30/2022 9:21:12 AM

End Time: 8/30/2022 9:23:35 AM

Lab Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 7344.75

Obtained Intensity (Mg 24): 24194.21

Obtained Intensity (In 115): 53601.24

Obtained Intensity (U 238): 57868.17

Obtained Intensity (Bkgd 220): 0.13

Obtained Formula (CeO 156 / Ce 140): 0.021 (=953.43 / 44454.46)

Obtained Formula (Ce++ 70 / Ce 140): 0.010 (=442.87 / 44454.46)

Obtained RSD (Be 9): 0.0106

Obtained RSD (Mg 24): 0.0123

Obtained RSD (In 115): 0.0025

Obtained RSD (U 238): 0.0073

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\wizard\SmartTune\FA_SmartTune Daily.swz

Optimization Status

Start Time: 8/30/2022 9:21:12 AM

Lab Performance Check

Optimization Settings:

Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\FA_Daily Performance.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: Mg 24 > 15000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: CeO 156 / Ce 140 <= 0.03
Formula Criterion: Ce++ 70 / Ce 140 <= 0.05
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: Mg 23.985 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 7344.75
Obtained Intensity (Mg 24): 24194.21
Obtained Intensity (In 115): 53601.24
Obtained Intensity (U 238): 57868.17
Obtained Intensity (Bkgd 220): 0.13
Obtained Formula (CeO 156 / Ce 140): 0.021 (=953.43 / 44454.46)
Obtained Formula (Ce++ 70 / Ce 140): 0.010 (=442.87 / 44454.46)
Obtained RSD (Be 9): 0.0106
Obtained RSD (Mg 24): 0.0123
Obtained RSD (In 115): 0.0025
Obtained RSD (U 238): 0.0073

[Passed] Optimum value(s): N/A

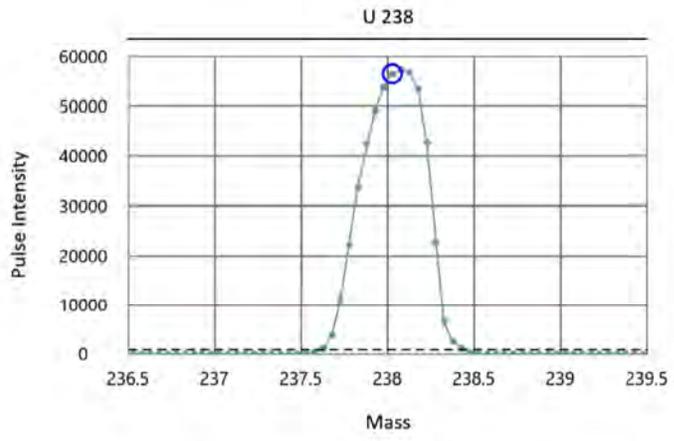
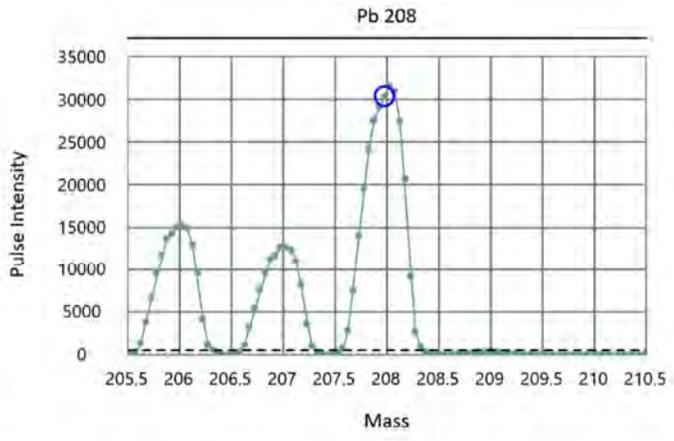
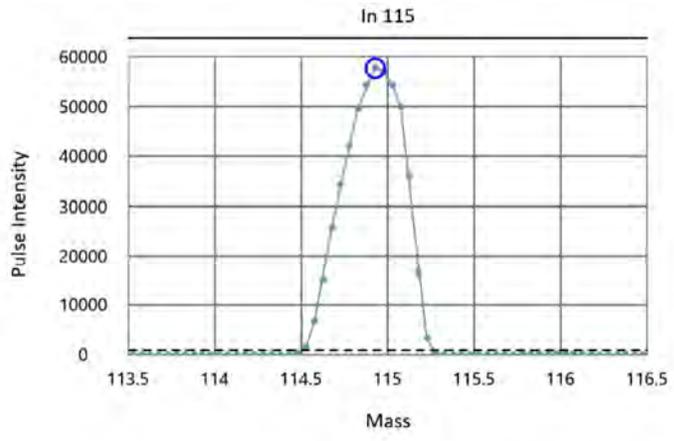
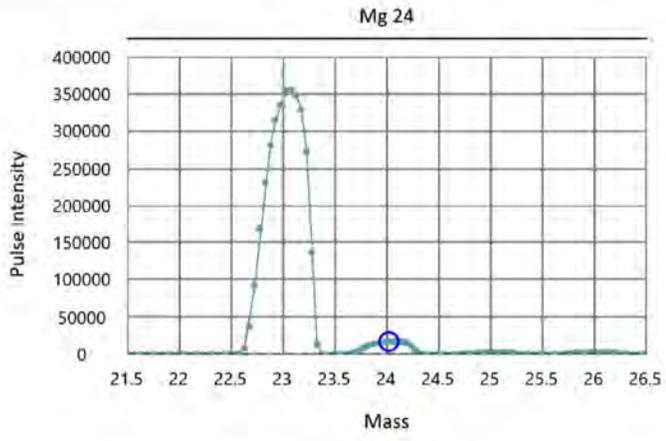
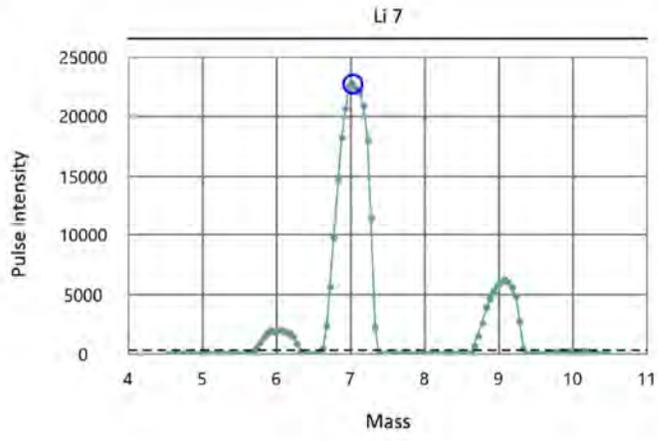
End Time: 8/30/2022 9:23:35 AM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
 Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.708)
 Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.688)
 Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.695)
 Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.716)
 Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.716)

Acq. Date/Time: 8/30/2022 9:07:08 AM

Sent to file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res DAC	Meas. Peak Width	Custom Res
Li	7.016	7.025	1327	2022	0.708	
Mg	23.985	24.025	4714	2023	0.688	
In	114.904	114.925	22854	2041	0.695	
Pb	207.977	207.975	41421	2062	0.716	
U	238.05	238.025	47418	2070	0.716	





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

Shannon & Wilson

Ryan Peterson
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: 8801 Excavations
Work Order Number: 2208478

September 01, 2022

Attention Ryan Peterson:

Fremont Analytical, Inc. received 2 sample(s) on 8/31/2022 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)

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 blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1

www.fremontanalytical.com



Date: 09/22/2022

CLIENT: Shannon & Wilson
Project: 8801 Excavations
Work Order: 2208478

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208478-001	A4-SIDE177:2	08/31/2022 2:30 PM	08/31/2022 3:11 PM
2208478-002	A4-SIDE177:6	08/31/2022 2:35 PM	08/31/2022 3:11 PM

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

CLIENT: Shannon & Wilson

Project: 8801 Excavations

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:

- * - Associated LCS is outside of 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 Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Method Detection Limit
- R - High relative percent difference observed

Acronyms:

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



Analytical Report

Work Order: 2208478
 Date Reported: 9/1/2022

Client: Shannon & Wilson
Project: 8801 Excavations
Lab ID: 2208478-001
Client Sample ID: A4-SIDE177:2

Collection Date: 8/31/2022 2:30:00 PM

Matrix: Soil

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

Batch ID: 37645 Analyst: OK

Aroclor 1016	ND	0.0490	0.00790		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1221	ND	0.0490	0.00790		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1232	ND	0.0490	0.00790		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1242	ND	0.0490	0.00790		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1248	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1254	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1260	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1262	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Aroclor 1268	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Total PCBs	ND	0.0490	0.00974		mg/Kg-dry	1	09/01/22 9:48:35
Surr: Decachlorobiphenyl	86.3	9.77 - 154			%Rec	1	09/01/22 9:48:35
Surr: Tetrachloro-m-xylene	85.4	24.2 - 187			%Rec	1	09/01/22 9:48:35

Sample Moisture (Percent Moisture)

Batch ID: R77978 Analyst: AP

Percent Moisture	7.66	0.500	0.100		wt%	1	09/01/22 16:00:18
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Client: Shannon & Wilson

Collection Date: 8/31/2022 2:35:00 PM

Project: 8801 Excavations

Lab ID: 2208478-002

Matrix: Soil

Client Sample ID: A4-SIDE177:6

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

Batch ID: 37645

Analyst: OK

Aroclor 1016	ND	0.0536	0.00864		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1221	ND	0.0536	0.00864		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1232	ND	0.0536	0.00864		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1242	ND	0.0536	0.00864		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1248	ND	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1254	0.657	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1260	ND	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1262	ND	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Aroclor 1268	ND	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Total PCBs	0.657	0.0536	0.0107		mg/Kg-dry	1	09/01/22 9:58:21
Surr: Decachlorobiphenyl	93.1	9.77 - 154			%Rec	1	09/01/22 9:58:21
Surr: Tetrachloro-m-xylene	86.7	24.2 - 187			%Rec	1	09/01/22 9:58:21

Sample Moisture (Percent Moisture)

Batch ID: R77978

Analyst: AP

Percent Moisture	12.2	0.500	0.100		wt%	1	09/01/22 16:00:18
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Work Order: 2208478
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: PCB ICB	SampType: ICB	Units: mg/Kg				Prep Date: 8/17/2022	RunNo: 77603				
Client ID: ICB	Batch ID: 37645					Analysis Date: 8/17/2022	SeqNo: 1594089				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	210		200.0		105	50.2	159				
Surr: Tetrachloro-m-xylene	207		200.0		103	60.3	134				

Sample ID: PCB ICV	SampType: ICV	Units: mg/Kg				Prep Date: 8/17/2022	RunNo: 77603				
Client ID: ICV	Batch ID: 37645					Analysis Date: 8/17/2022	SeqNo: 1594090				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.921	0.0500	1.000	0	92.1	80	120				
Aroclor 1260	0.843	0.0500	1.000	0	84.3	80	120				
Surr: Decachlorobiphenyl	202		200.0		101	30.2	155				
Surr: Tetrachloro-m-xylene	204		200.0		102	58.8	143				

Sample ID: 1660-CCV-37645A	SampType: CCV	Units: mg/Kg				Prep Date: 9/1/2022	RunNo: 77745				
Client ID: CCV	Batch ID: 37645					Analysis Date: 9/1/2022	SeqNo: 1602002				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.815	0.0500	1.000	0	81.5	80	120				
Aroclor 1260	0.849	0.0500	1.000	0	84.9	80	120				
Surr: Decachlorobiphenyl	262		200.0		131	30.2	155				
Surr: Tetrachloro-m-xylene	183		200.0		91.3	58.8	143				

Work Order: 2208478
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-37645	SampType: MBLK	Units: mg/Kg				Prep Date: 8/31/2022	RunNo: 77745				
Client ID: MBLKS	Batch ID: 37645					Analysis Date: 9/1/2022	SeqNo: 1602003				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500									
Aroclor 1221	ND	0.0500									
Aroclor 1232	ND	0.0500									
Aroclor 1242	ND	0.0500									
Aroclor 1248	ND	0.0500									
Aroclor 1254	ND	0.0500									
Aroclor 1260	ND	0.0500									
Aroclor 1262	ND	0.0500									
Aroclor 1268	ND	0.0500									
Total PCBs	ND	0.0500									
Surr: Decachlorobiphenyl	221		200.0		111	9.77	154				
Surr: Tetrachloro-m-xylene	184		200.0		92.1	24.2	187				

Sample ID: LCS-37645	SampType: LCS	Units: mg/Kg				Prep Date: 8/31/2022	RunNo: 77745				
Client ID: LCSS	Batch ID: 37645					Analysis Date: 9/1/2022	SeqNo: 1602004				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.825	0.0500	1.000	0	82.5	75.7	162				
Aroclor 1260	0.804	0.0500	1.000	0	80.4	57.8	183				
Surr: Decachlorobiphenyl	256		200.0		128	9.77	154				
Surr: Tetrachloro-m-xylene	189		200.0		94.7	24.2	187				

Sample ID: 2208278-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 8/31/2022	RunNo: 77745				
Client ID: BATCH	Batch ID: 37645					Analysis Date: 9/1/2022	SeqNo: 1602006				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.845	0.0572	1.144	0	73.9	55.6	188				
Aroclor 1260	0.844	0.0572	1.144	0	73.8	54.5	178				
Surr: Decachlorobiphenyl	161		228.8		70.3	9.77	154				
Surr: Tetrachloro-m-xylene	194		228.8		84.9	24.2	187				

Work Order: 2208478
 CLIENT: Shannon & Wilson
 Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2208278-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 8/31/2022	RunNo: 77745							
Client ID: BATCH	Batch ID: 37645		Analysis Date: 9/1/2022	SeqNo: 1602007							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.842	0.0576	1.152	0	73.1	55.6	188	0.8451	0.421	30	
Aroclor 1260	0.832	0.0576	1.152	0	72.3	54.5	178	0.8444	1.44	30	
Surr: Decachlorobiphenyl	164		230.3		71.1	9.77	154		0		
Surr: Tetrachloro-m-xylene	195		230.3		84.6	24.2	187		0		

Sample ID: 1660-CCV-37645B	SampType: CCV	Units: mg/Kg	Prep Date: 9/1/2022	RunNo: 77745							
Client ID: CCV	Batch ID: 37645		Analysis Date: 9/1/2022	SeqNo: 1602010							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.867	0.0500	1.000	0	86.7	80	120				
Aroclor 1260	0.746	0.0500	1.000	0	74.6	80	120				S
Surr: Decachlorobiphenyl	186		200.0		93.2	30.2	155				
Surr: Tetrachloro-m-xylene	203		200.0		101	58.8	143				

NOTES:

S - Outlying spike recovery observed (low bias). CCV was re-injected twice with passing recovery.

Sample ID: 1660-CCV-37645B	SampType: CCV	Units: mg/Kg	Prep Date: 9/1/2022	RunNo: 77745							
Client ID: CCV	Batch ID: 37645		Analysis Date: 9/1/2022	SeqNo: 1602011							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.882	0.0500	1.000	0	88.2	80	120				
Aroclor 1260	0.861	0.0500	1.000	0	86.1	80	120				
Surr: Decachlorobiphenyl	219		200.0		109	30.2	155				
Surr: Tetrachloro-m-xylene	202		200.0		101	58.8	143				

Sample ID: 1660-CCV-37645B	SampType: CCV	Units: mg/Kg	Prep Date: 9/1/2022	RunNo: 77745							
Client ID: CCV	Batch ID: 37645		Analysis Date: 9/1/2022	SeqNo: 1602012							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.814	0.0500	1.000	0	81.4	80	120				
Aroclor 1260	0.824	0.0500	1.000	0	82.4	80	120				

Work Order: 2208478
CLIENT: Shannon & Wilson
Project: 8801 Excavations

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 1660-CCV-37645B	SampType: CCV	Units: mg/Kg	Prep Date: 9/1/2022	RunNo: 77745							
Client ID: CCV	Batch ID: 37645		Analysis Date: 9/1/2022	SeqNo: 1602012							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Decachlorobiphenyl	215		200.0		107	30.2	155				
Surr: Tetrachloro-m-xylene	182		200.0		90.8	58.8	143				

Client Name: SW	Work Order Number: 2208478
Logged by: Elisabeth Samoray	Date Received: 8/31/2022 3:11:00 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 Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°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
Sample 1	1.1

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

DATA SET for Review - Deliverable Requirements

Polychlorinated Biphenyls (PCB) by EPA 8082

Fremont Analytical Work Order No. 2208478

Shannon & Wilson

Project Name: 8801- Excavations

This Data contains the following:

- Analytical Sequence Summary
- Calibration Information

Data Directory: D:\GC-16\Data\2022\081722\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 081701.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 12:47 pm
2) 081702.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 12:56 pm
3) 081703.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:06 pm
4) 081704.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:16 pm
5) 081705.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:26 pm
6) 081706.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:36 pm
7) 081707.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:46 pm
8) 081708.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 01:55 pm
9) 081709.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 02:05 pm
10) 081710.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 02:15 pm
11) 081711.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 02:25 pm
12) 081712.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 02:34 pm
13) 081713.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 02:44 pm
14) 081714.D CO	8081_8082A_608.M	1	1.000	17 Aug 2022 04:41 pm
15) 081715.D PCB 5	8081_8082A_608.M	11	1.000	17 Aug 2022 05:10 pm
16) 081716.D PCB 20	8081_8082A_608.M	12	1.000	17 Aug 2022 05:20 pm
17) 081717.D PCB 50	8081_8082A_608.M	13	1.000	17 Aug 2022 05:30 pm
18) 081718.D PCB 100	8081_8082A_608.M	14	1.000	17 Aug 2022 05:40 pm
19) 081719.D PCB 200	8081_8082A_608.M	15	1.000	17 Aug 2022 05:49 pm
20) 081720.D PCB 500	8081_8082A_608.M	16	1.000	17 Aug 2022 05:59 pm
21) 081721.D PCB 1000	8081_8082A_608.M	17	1.000	17 Aug 2022 06:09 pm

22) 081722.D PCB 2000	8081_8082A_608.M	18	1.000	17 Aug 2022	06:19 pm
23) 081723.D PCB ICB	8081_8082A_608.M	19	1.000	17 Aug 2022	06:29 pm
24) 081724.D PCB ICV	8081_8082A_608.M	20	1.000	17 Aug 2022	06:38 pm
25) 081725.D PCB 1221	8081_8082A_608.M	21	1.000	17 Aug 2022	06:48 pm
26) 081726.D PCB 1232	8081_8082A_608.M	22	1.000	17 Aug 2022	06:58 pm
27) 081727.D PCB 1242	8081_8082A_608.M	23	1.000	17 Aug 2022	07:08 pm
28) 081728.D PCB 1248	8081_8082A_608.M	24	1.000	17 Aug 2022	07:18 pm
29) 081729.D PCB 1254	8081_8082A_608.M	25	1.000	17 Aug 2022	07:27 pm
30) 081730.D PCB 1262	8081_8082A_608.M	26	1.000	17 Aug 2022	07:37 pm
31) 081731.D PCB 1268	8081_8082A_608.M	27	1.000	17 Aug 2022	07:47 pm
32) 081732.D 1660-CCV-	8081_8082A_608.M	15	1.000	17 Aug 2022	07:57 pm
33) 081733.D MB-37235	8081_8082A_608.M	47	1.000	17 Aug 2022	08:07 pm
34) 081734.D LCS-37235	8081_8082A_608.M	48	1.000	17 Aug 2022	08:16 pm
35) 081735.D LCSD-37235	8081_8082A_608.M	49	1.000	17 Aug 2022	08:26 pm
36) 081736.D 2207003-017A	8081_8082A_608.M	50	1.000	17 Aug 2022	08:36 pm
37) 081737.D MB-37439	8081_8082A_608.M	41	1.000	17 Aug 2022	08:46 pm
38) 081738.D LCS-37439	8081_8082A_608.M	42	1.000	17 Aug 2022	08:56 pm
39) 081739.D 2208169-004C	8081_8082A_608.M	43	1.000	17 Aug 2022	09:05 pm
40) 081740.D 2208169-005C	8081_8082A_608.M	44	1.000	17 Aug 2022	09:15 pm
41) 081741.D 2208169-008C	8081_8082A_608.M	45	1.000	17 Aug 2022	09:25 pm
42) 081742.D 2208184-008A	8081_8082A_608.M	46	1.000	17 Aug 2022	09:35 pm
43) 081743.D 2208184-009A	8081_8082A_608.M	47	1.000	17 Aug 2022	09:45 pm
44) 081744.D 2208184-010A	8081_8082A_608.M	48	1.000	17 Aug 2022	09:54 pm
45) 081745.D	8081_8082A_608.M				

2208184-011A		49	1.000	17 Aug 2022	10:04 pm
46) 081746.D	8081_8082A_608.M				
2208184-012A		50	1.000	17 Aug 2022	10:14 pm
47) 081747.D	8081_8082A_608.M				
2208184-013A		51	1.000	17 Aug 2022	10:24 pm
48) 081748.D	8081_8082A_608.M				
2208184-014A		52	1.000	17 Aug 2022	10:34 pm
49) 081749.D	8081_8082A_608.M				
2208191-002A		53	1.000	17 Aug 2022	10:43 pm
50) 081750.D	8081_8082A_608.M				
2208191-002AMS		54	1.000	17 Aug 2022	10:53 pm
51) 081751.D	8081_8082A_608.M				
2208191-002AMSD		55	1.000	17 Aug 2022	11:03 pm
52) 081752.D	8081_8082A_608.M				
2208191-003A		56	1.000	17 Aug 2022	11:13 pm
53) 081753.D	8081_8082A_608.M				
2208191-004A		57	1.000	17 Aug 2022	11:23 pm
54) 081754.D	8081_8082A_608.M				
2208191-005A		58	1.000	17 Aug 2022	11:32 pm
55) 081755.D	8081_8082A_608.M				
2208191-006A		59	1.000	17 Aug 2022	11:42 pm
56) 081756.D	8081_8082A_608.M				
2208191-007A		60	1.000	17 Aug 2022	11:52 pm
57) 081757.D	8081_8082A_608.M				
2208191-008A		61	1.000	18 Aug 2022	12:02 am
58) 081758.D	8081_8082A_608.M				
2208191-009A		62	1.000	18 Aug 2022	12:12 am
59) 081759.D	8081_8082A_608.M				
2208191-010A		63	1.000	18 Aug 2022	12:21 am
60) 081760.D	8081_8082A_608.M				
MB-37451		66	1.000	18 Aug 2022	12:31 am
61) 081761.D	8081_8082A_608.M				
LCS-37451		67	1.000	18 Aug 2022	12:41 am
62) 081762.D	8081_8082A_608.M				
LCSD-37451		68	1.000	18 Aug 2022	12:51 am
63) 081763.D	8081_8082A_608.M				
2208169-009B		69	1.000	18 Aug 2022	01:01 am
64) 081764.D	8081_8082A_608.M				
2208169-009BMS		70	1.000	18 Aug 2022	01:11 am
65) 081765.D	8081_8082A_608.M				
CO		15	1.000	18 Aug 2022	01:20 am
66) 081766.D	8081_8082A_608.M				
CO		15	1.000	18 Aug 2022	01:30 am
67) 081767.D	8081_8082A_608.M				
CO		15	1.000	18 Aug 2022	01:40 am
68) 081768.D	8081_8082A_608.M				
1660-CCV-		15	1.000	18 Aug 2022	01:50 am

Data Directory: D:\GC-16\Data\2022\090122\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 090101.D CO	8081_8082A_608.M	1	1.000	01 Sep 2022 07:59 am
2) 090102.D 1660-CCV-tfm	8081_8082A_608.M	1	1.000	01 Sep 2022 08:08 am
3) 090103.D CO	8081_8082A_608.M	1	1.000	01 Sep 2022 08:32 am
4) 090104.D 1660-CCV-tfm	8081_8082A_608.M	1	1.000	01 Sep 2022 08:41 am
5) 090105.D MB-37645	8081_8082A_608.M	41	1.000	01 Sep 2022 08:59 am
6) 090106.D LCS-37645	8081_8082A_608.M	42	1.000	01 Sep 2022 09:09 am
7) 090107.D 2208278-001A	8081_8082A_608.M	43	1.000	01 Sep 2022 09:19 am
8) 090108.D 2208278-001AMS	8081_8082A_608.M	44	1.000	01 Sep 2022 09:29 am
9) 090109.D 2208278-001AMSD	8081_8082A_608.M	45	1.000	01 Sep 2022 09:38 am
10) 090110.D 2208478-001A	8081_8082A_608.M	46	1.000	01 Sep 2022 09:48 am
11) 090111.D 2208478-002A	8081_8082A_608.M	47	1.000	01 Sep 2022 09:58 am
12) 090112.D CO	8081_8082A_608.M	1	1.000	01 Sep 2022 10:08 am
13) 090113.D CO	8081_8082A_608.M	1	1.000	01 Sep 2022 10:18 am
14) 090114.D CO	8081_8082A_608.M	1	1.000	01 Sep 2022 10:28 am
15) 090115.D 1660-CCV-tfm	8081_8082A_608.M	1	1.000	01 Sep 2022 10:59 am
16) 090116.D 1660-CCV-tfm	8081_8082A_608.M	1	1.000	01 Sep 2022 11:14 am
17) 090117.D 1660-CCV-tfm	8081_8082A_608.M	1	1.000	01 Sep 2022 11:24 am



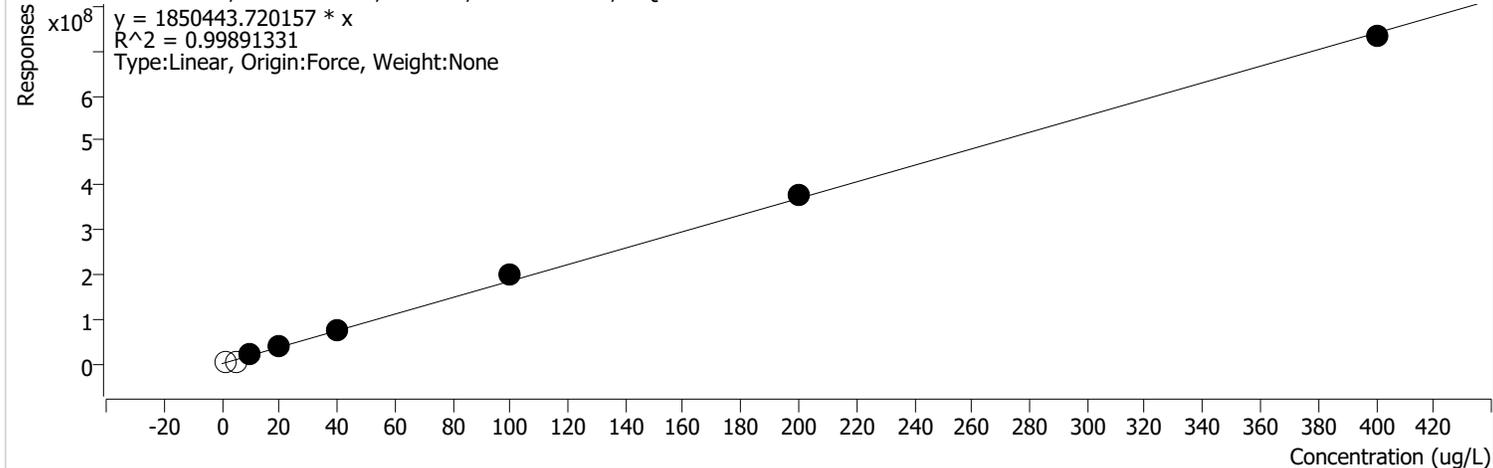
Calibration

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:50 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX %RSE =

Surr 1 TCMX - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

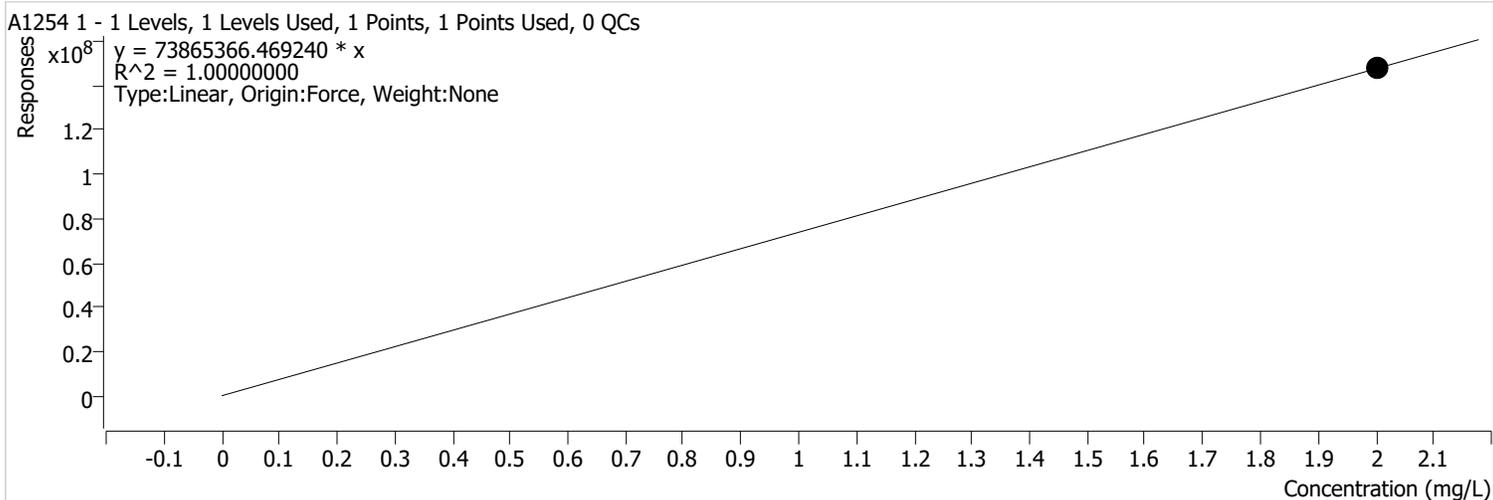


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-16\Data\2022\040822\040810.D	Calibration	2		6498571	5.0000		
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	21333919	10.0000	2133391.8960	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	38756813	20.0000	1937840.6494	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	76304395	40.0000	1907609.8839	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	201608509	100.0000	2016085.0921	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	377363290	200.0000	1886816.4489	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	732012382	400.0000	1830030.9557	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:50 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 %RSE =



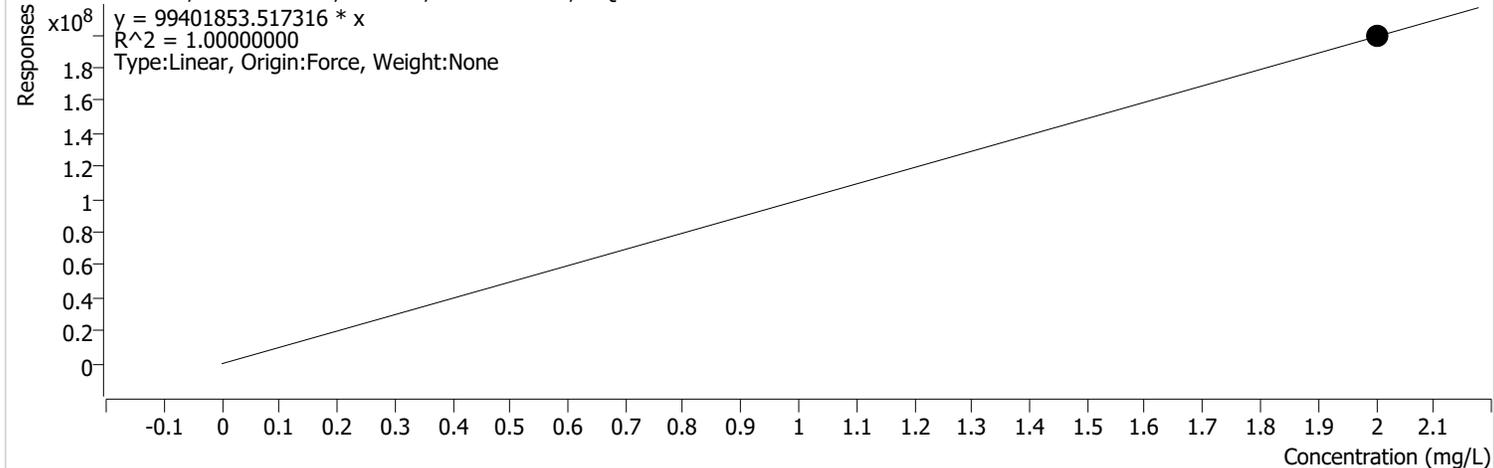
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	147730733	2.0000	73865366.4692	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:50 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 %RSE =

A1254 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs

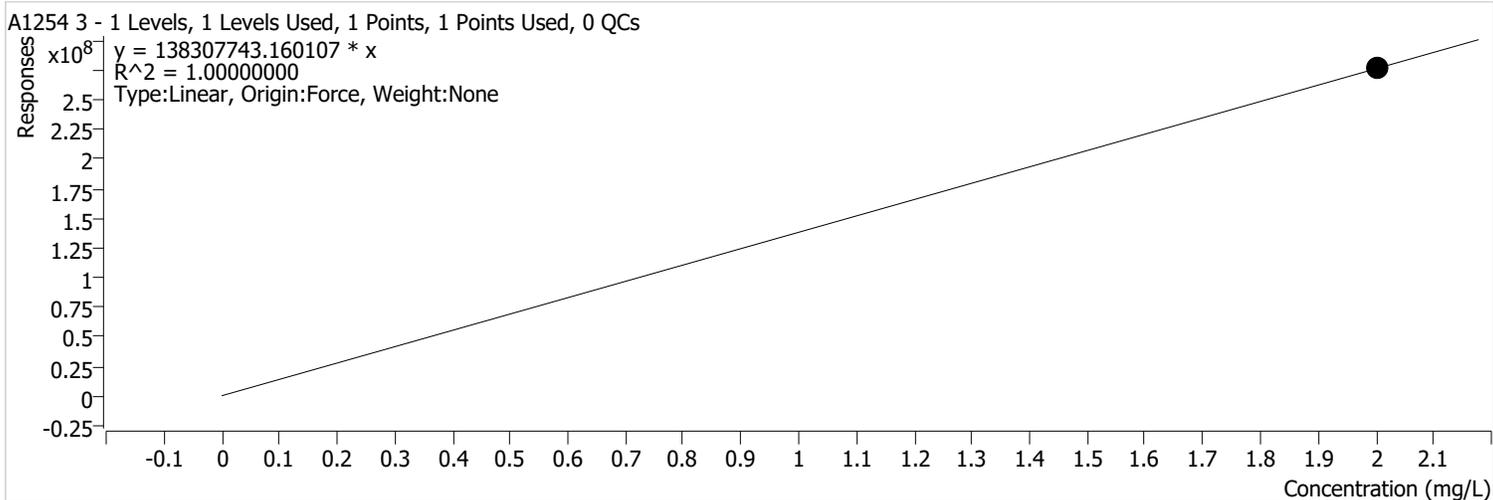


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:50 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 %RSE =

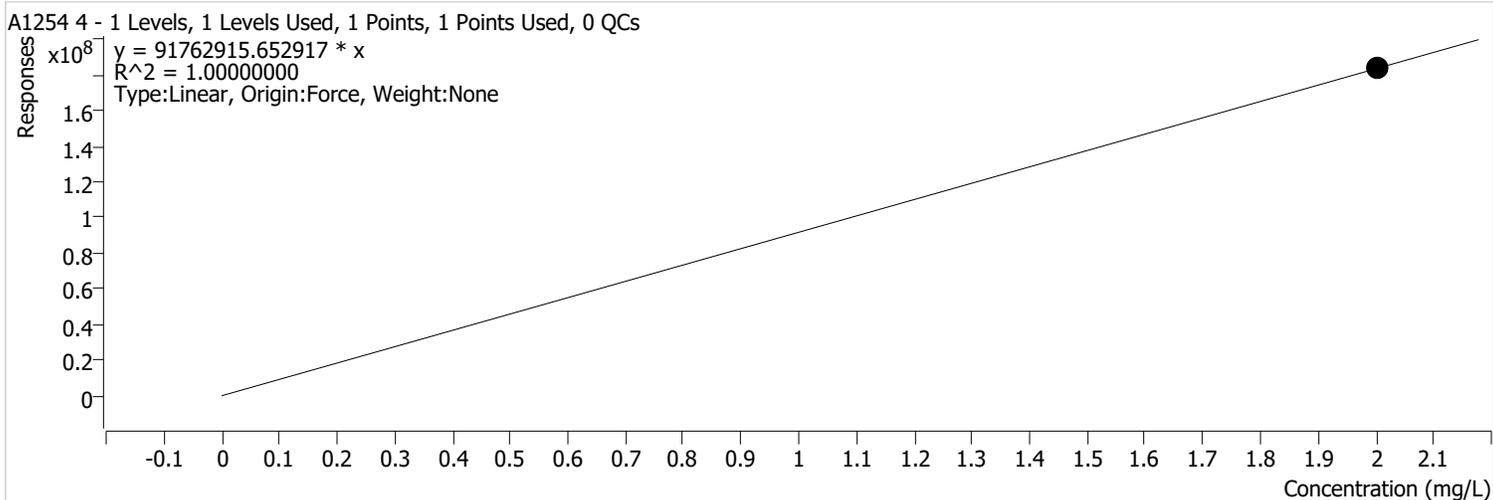


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	276615486	2.0000	13830774 3.1601	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:50 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 %RSE =

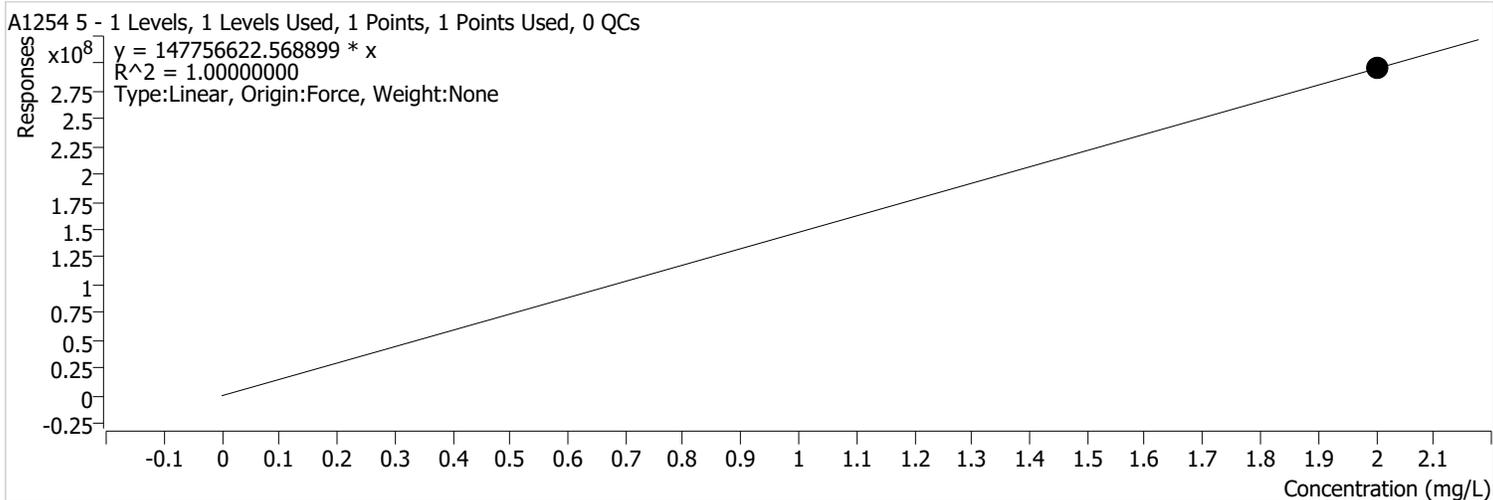


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	183525831	2.0000	91762915.6529	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 %RSE =

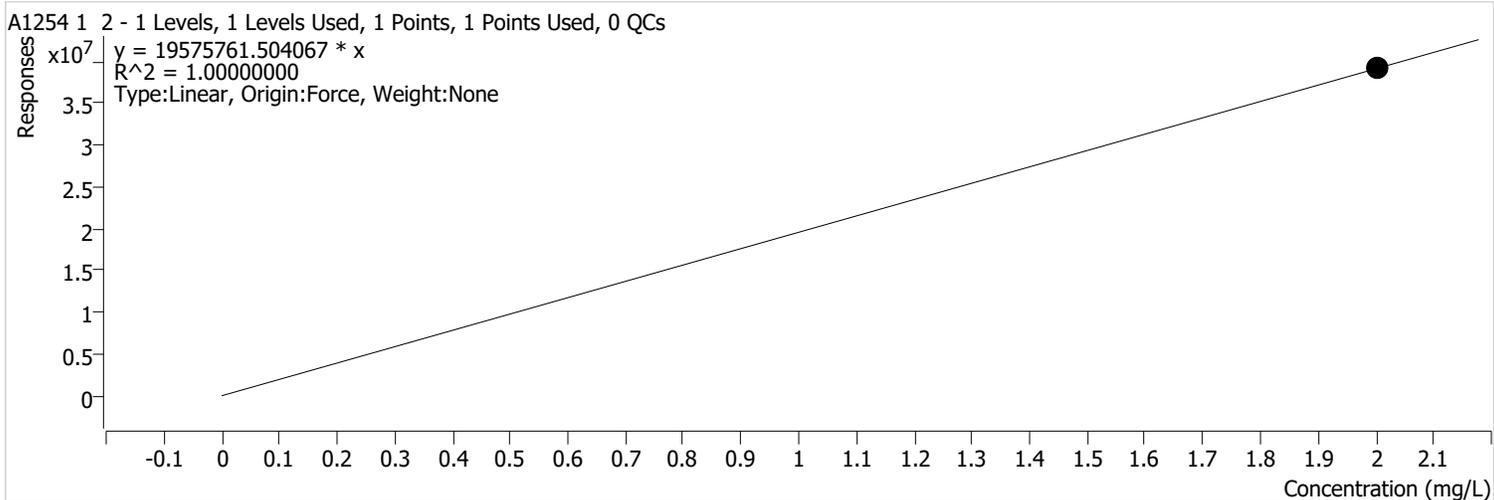


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	295513245	2.0000	147756622.5689	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 1 2 %RSE =



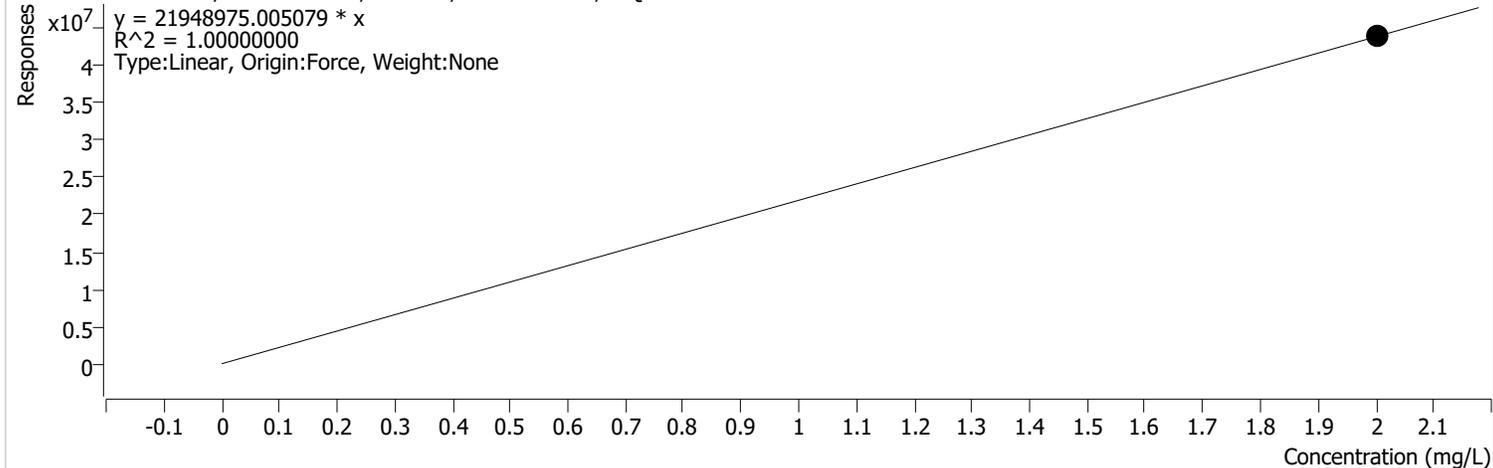
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	39151523	2.0000	19575761.5041	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 2 2 %RSE =

A1254 2 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



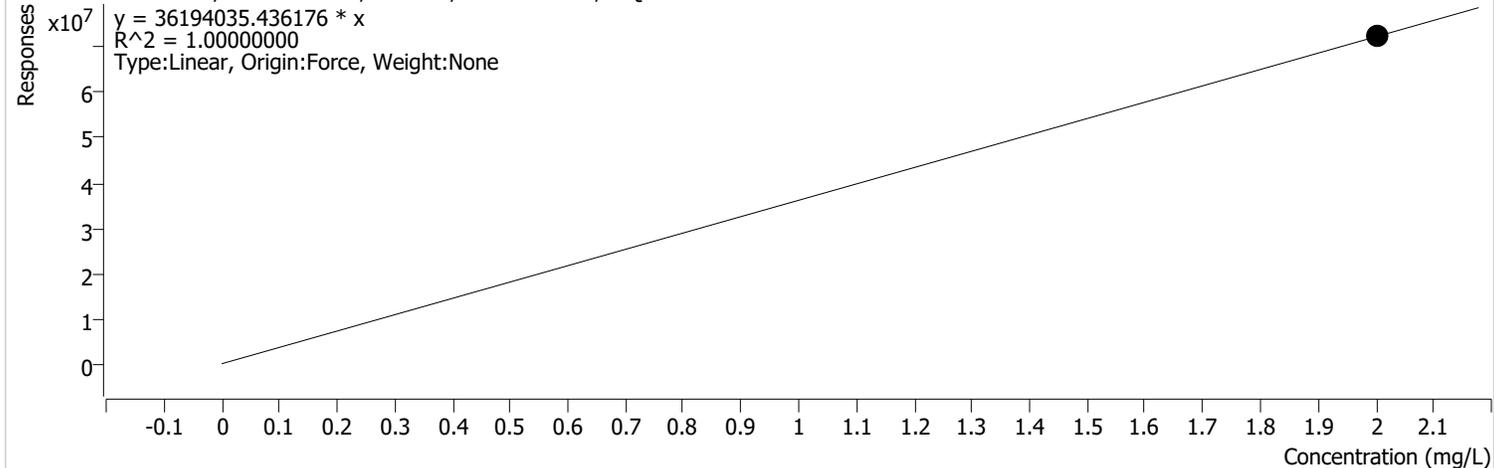
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	43897950	2.0000	21948975.0051	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 3 2 %RSE =

A1254 3 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



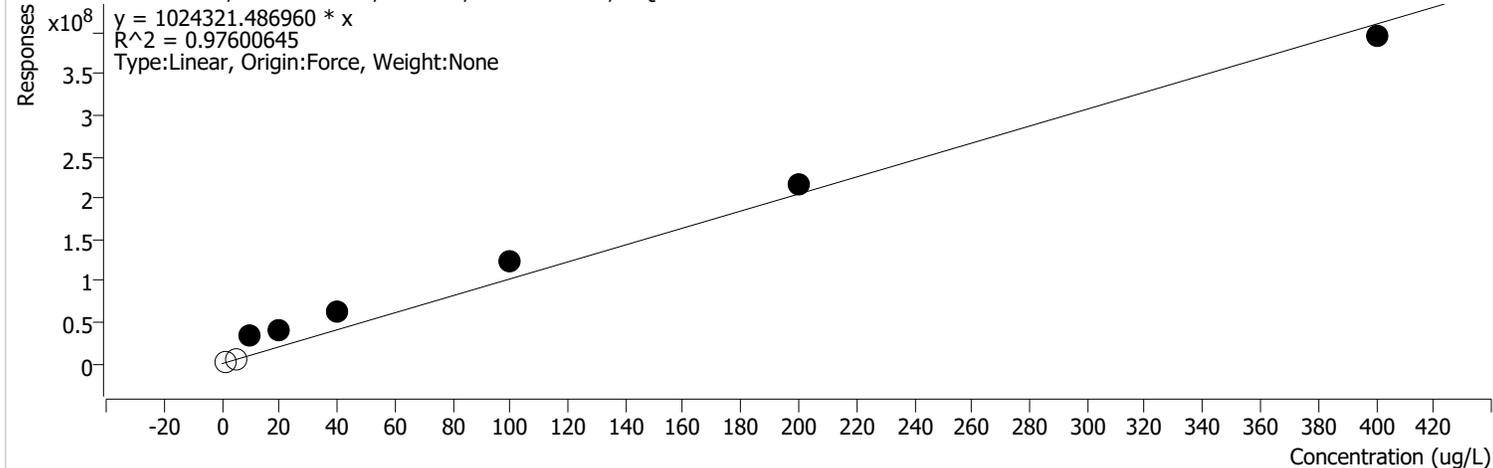
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	72388071	2.0000	36194035.4362	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP %RSE =

Surr 2 DCBP - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

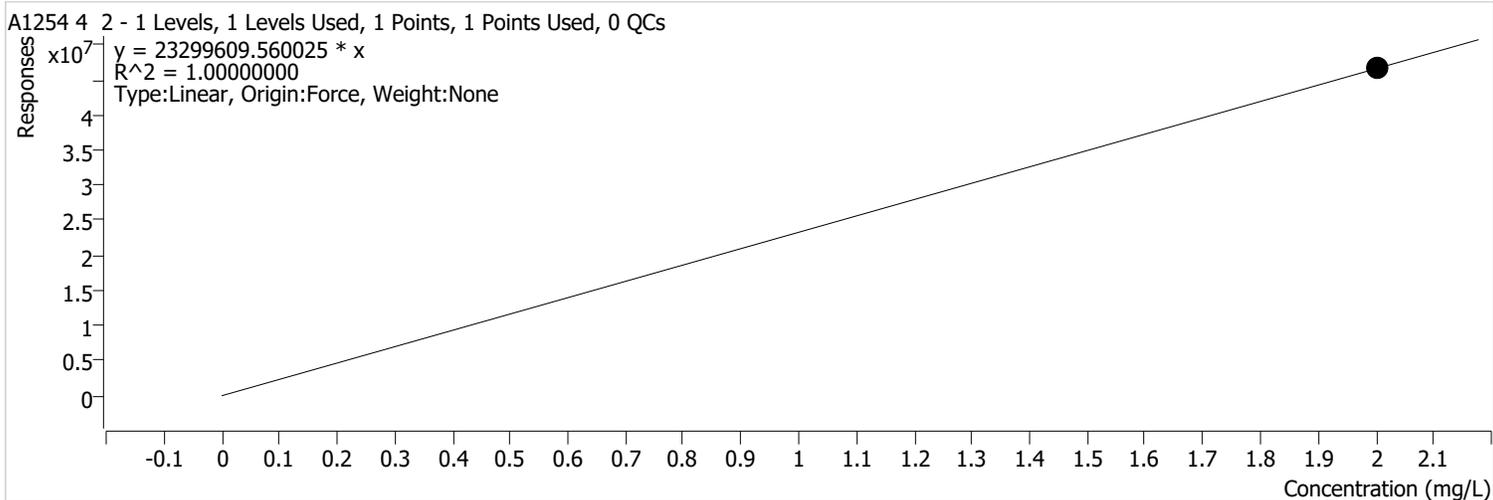


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\040822\040809.D	Calibration	1		1110753	1.2500		
D:\GC-16\Data\2022\040822\040810.D	Calibration	2		3843176	5.0000		
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	34136411	10.0000	3413641.0833	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	42091725	20.0000	2104586.2399	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	61955201	40.0000	1548880.0294	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	124850589	100.0000	1248505.8924	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	216349972	200.0000	1081749.8619	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	394605318	400.0000	986513.2958	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 4 2 %RSE =



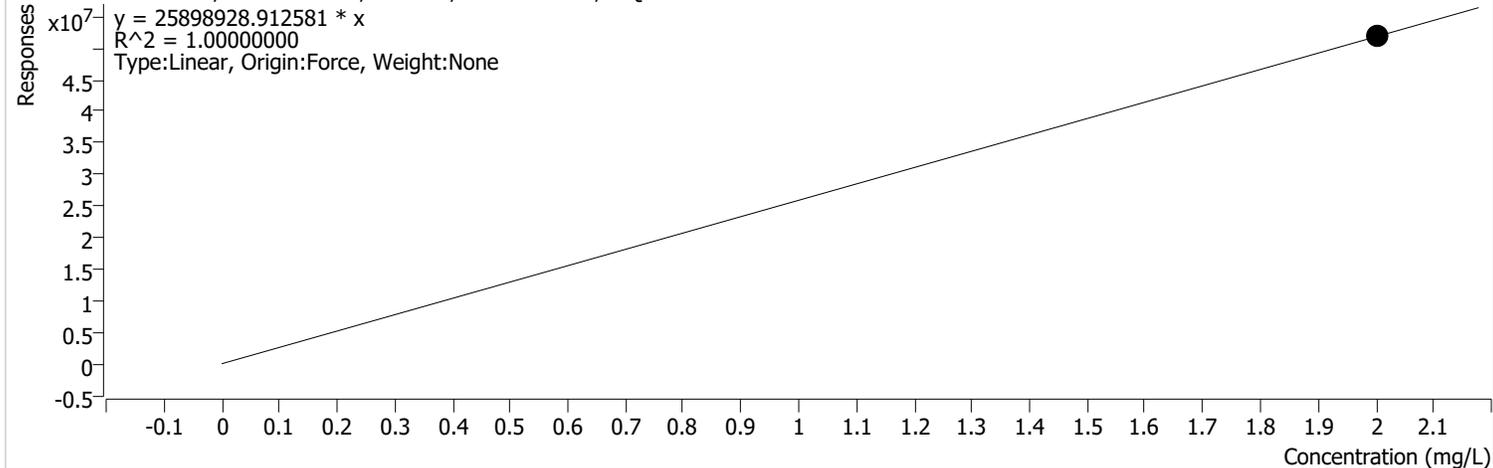
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	46599219	2.0000	23299609.5600	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1254 5 2 %RSE =

A1254 5 2 - 1 Levels, 1 Levels Used, 1 Points, 1 Points Used, 0 QCs



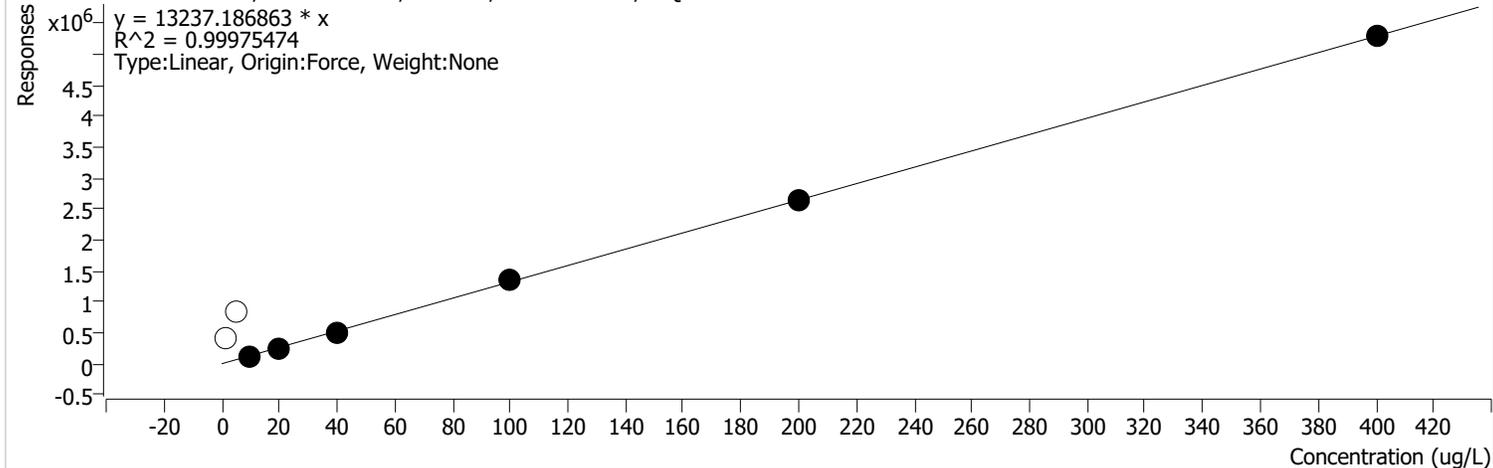
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081729.D	Calibration	9	x	51797858	2.0000	25898928.9126	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\1254 CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 2:58 PM	Reporter Name	FA\GC1625
Report Time	8/18/2022 2:59:51 PM	Batch State	Processed
Last Calib Update	8/18/2022 2:58 PM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE =

Surr 2 DCBP 2 - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



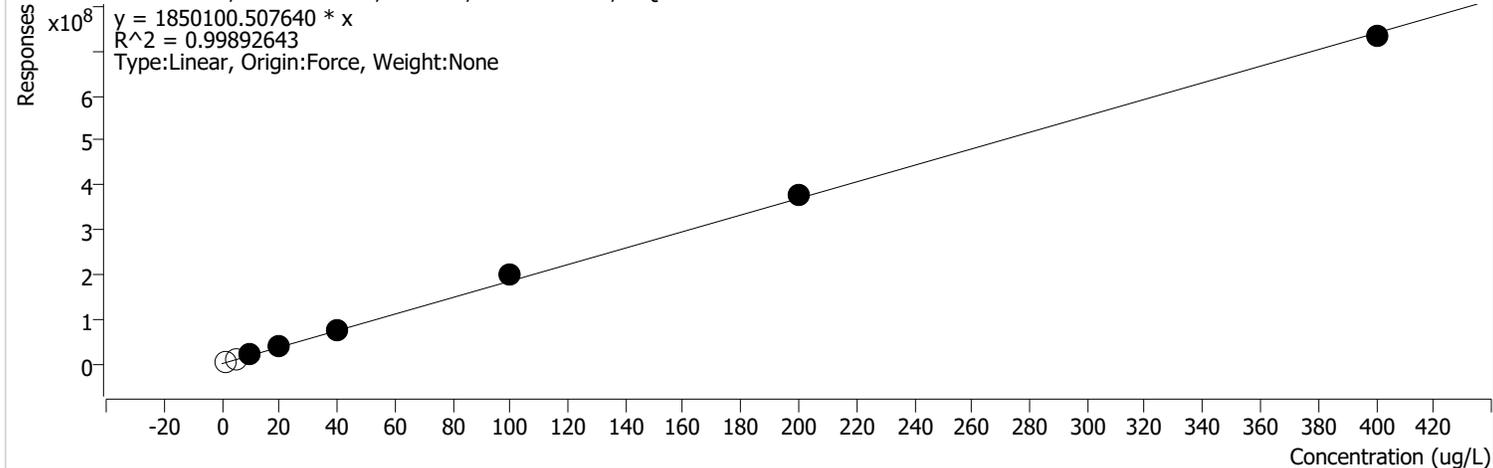
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\040822\040809.D	Calibration	1		417080	1.2500		
D:\GC-16\Data\2022\040822\040810.D	Calibration	2		847975	5.0000		
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	103269	10.0000	10326.94 37	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	239304	20.0000	11965.19 70	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	498537	40.0000	12463.42 12	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	1372612	100.0000	13726.11 97	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	2648782	200.0000	13243.91 02	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	5287074	400.0000	13217.68 42	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin		
Analysis Time	8/18/2022 10:12 AM	Analyst Name	FA\GC1625
Report Time	8/18/2022 10:12:51 AM	Reporter Name	FA\GC1625
Last Calib Update	8/18/2022 10:12 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 1 TCMX %RSE = 8.8

Surr 1 TCMX - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs

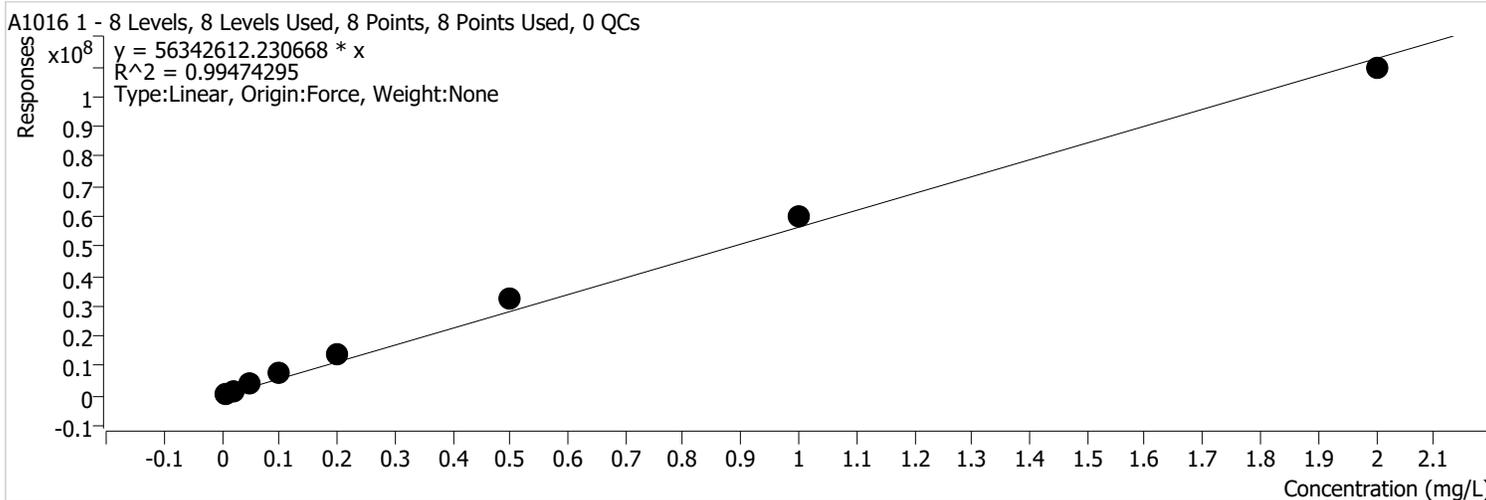


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1		2761685	1.2500	2209348.0895	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2		8007254	5.0000	1601450.7473	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	21131778	10.0000	2113177.8341	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	38279581	20.0000	1913979.0728	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	76255304	40.0000	1906382.5900	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	201565170	100.0000	2015651.6965	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	377240588	200.0000	1886202.9393	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	731936404	400.0000	1829841.0099	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 1 %RSE = 43.9

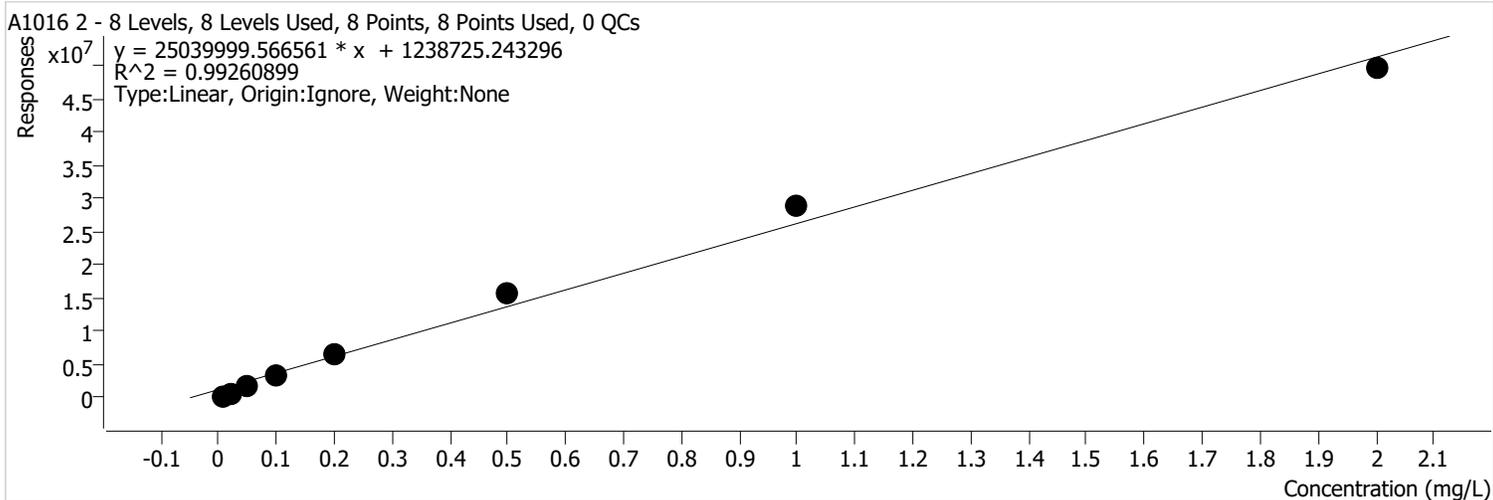


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	496069	0.0050	99213729 .1744	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	1590799	0.0200	79539942 .3806	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	4190327	0.0500	83806549 .0328	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	7347824	0.1000	73478237 .0347	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	13828334	0.2000	69141671 .6355	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	32062099	0.5000	64124197 .5250	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	60363665	1.0000	60363665 .0036	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	109320835	2.0000	54660417 .6625	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 2 %RSE = 61.9



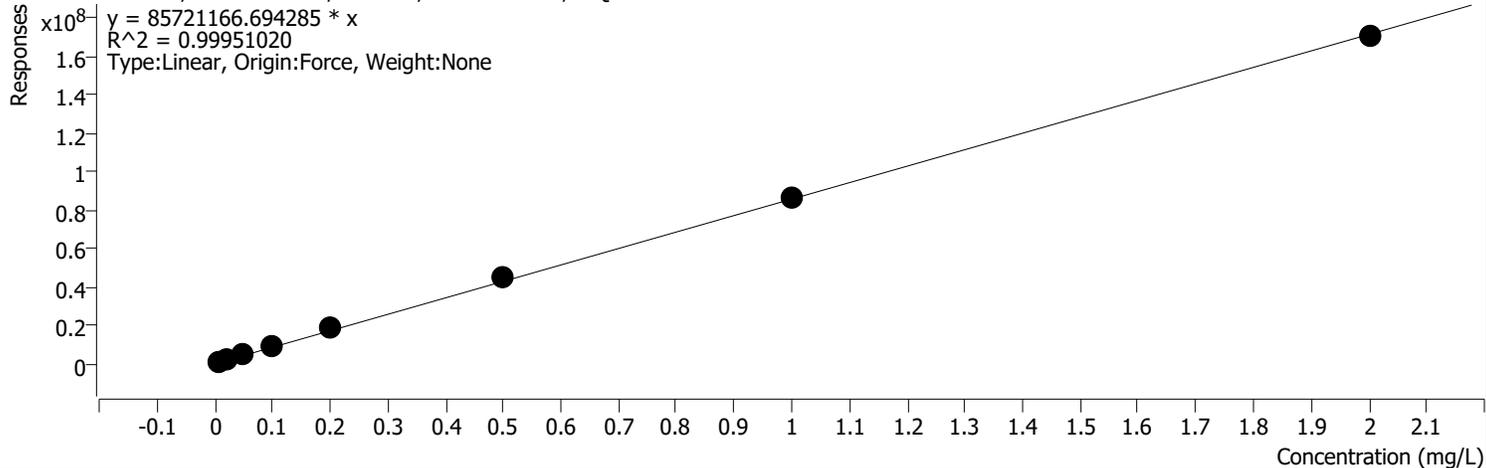
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	299123	0.0050	59824531 .7015	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	642081	0.0200	32104063 .2821	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	1863690	0.0500	37273803 .4200	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	3516389	0.1000	35163890 .4502	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	6502121	0.2000	32510604 .9287	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	15767919	0.5000	31535837 .9750	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	28755199	1.0000	28755198 .6300	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	49593279	2.0000	24796639 .2617	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 3 %RSE = 15.0

A1016 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

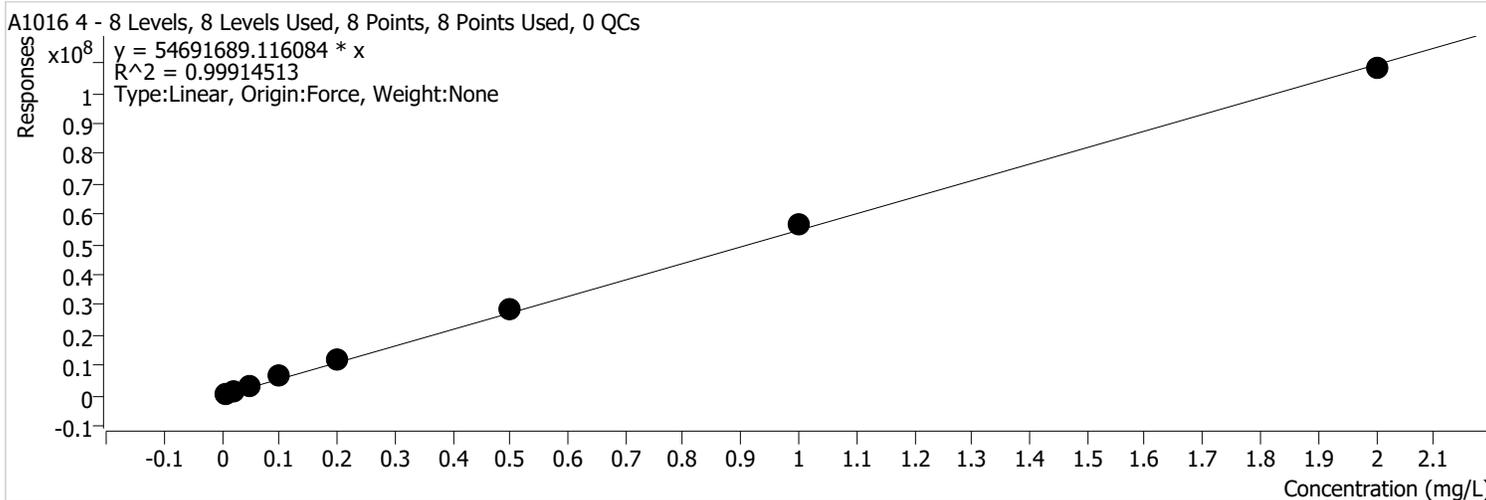


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	533976	0.0050	10679510 9.3367	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	1836304	0.0200	91815190 .3343	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	5095583	0.0500	10191165 7.5000	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	9885548	0.1000	98855484 .0999	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	18691898	0.2000	93459490 .0027	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	45142858	0.5000	90285716 .8604	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	86513561	1.0000	86513560 .9413	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	170233409	2.0000	85116704 .5493	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 4 %RSE = 17.6



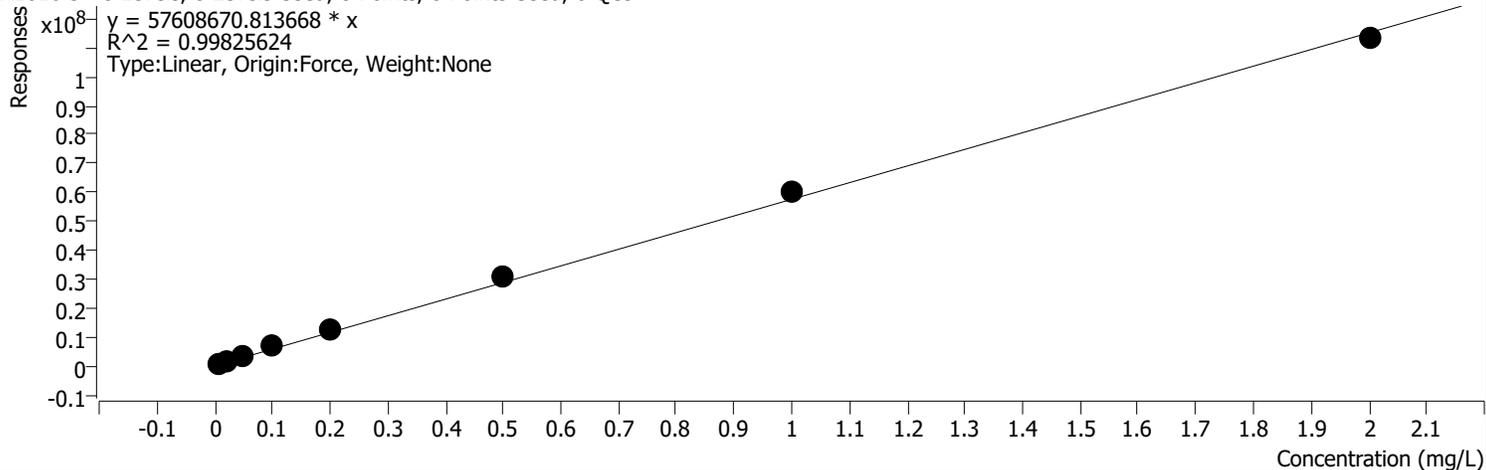
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	353589	0.0050	70717893 .4921	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	1150896	0.0200	57544794 .7468	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	3380509	0.0500	67610181 .8272	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	6324648	0.1000	63246484 .2520	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	12217547	0.2000	61087732 .6646	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	28578033	0.5000	57156065 .9000	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	56294287	1.0000	56294287 .1119	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	108086418	2.0000	54043209 .1125	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 5 %RSE = 26.7

A1016 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



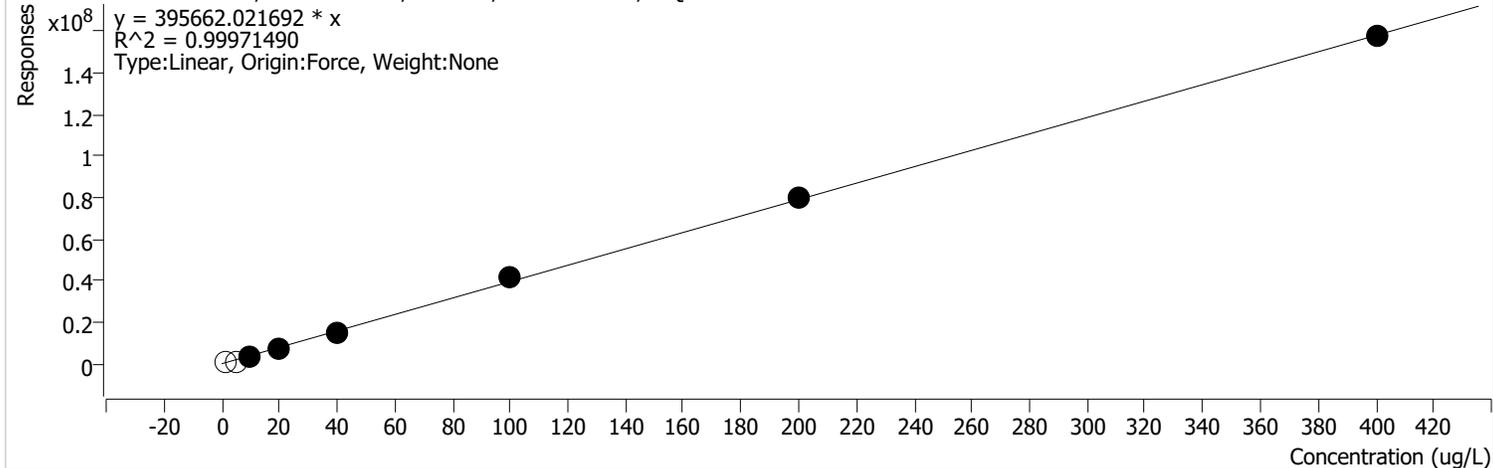
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	426477	0.0050	85295491 .7522	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	1398235	0.0200	69911753 .7500	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	3764502	0.0500	75290047 .0000	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	6818588	0.1000	68185878 .7500	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	12949558	0.2000	64747788 .2697	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	30815485	0.5000	61630969 .6000	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	60251884	1.0000	60251883 .9000	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	113172371	2.0000	56586185 .4625	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 1 TCMX 2 %RSE = 6.0

Surr 1 TCMX 2 - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



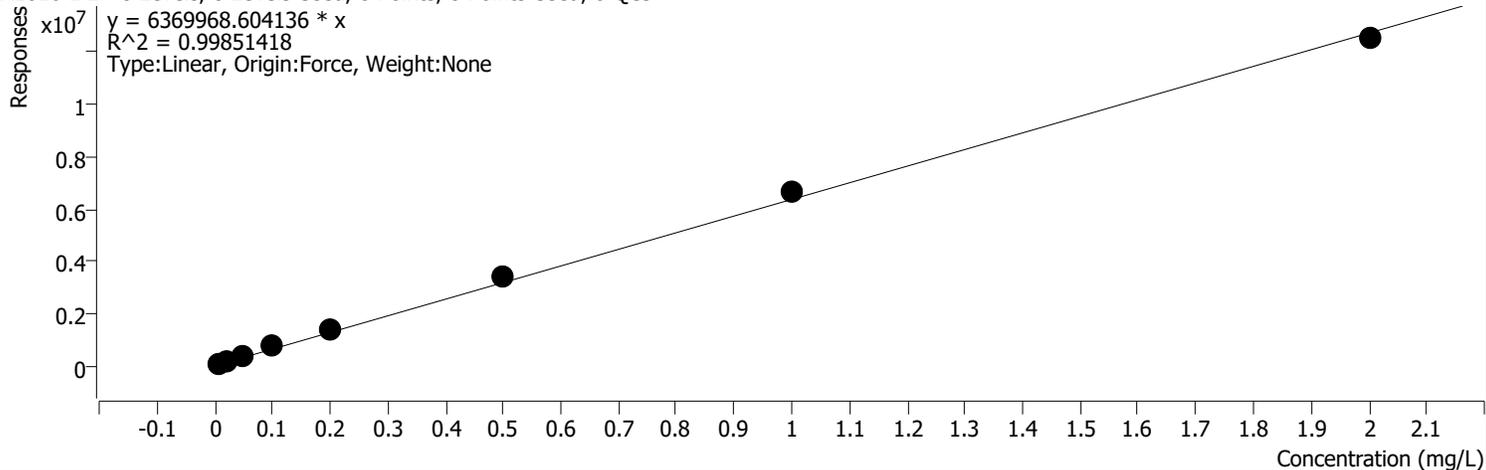
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1		471375	1.2500	377100.0 759	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2		1386288	5.0000	277257.5 860	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	3856291	10.0000	385629.0 675	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	7215565	20.0000	360778.2 367	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	14790474	40.0000	369761.8 449	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	41117163	100.0000	411171.6 296	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	79944441	200.0000	399722.2 064	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	157612043	400.0000	394030.1 068	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 1 2 %RSE = 10.3

A1016 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



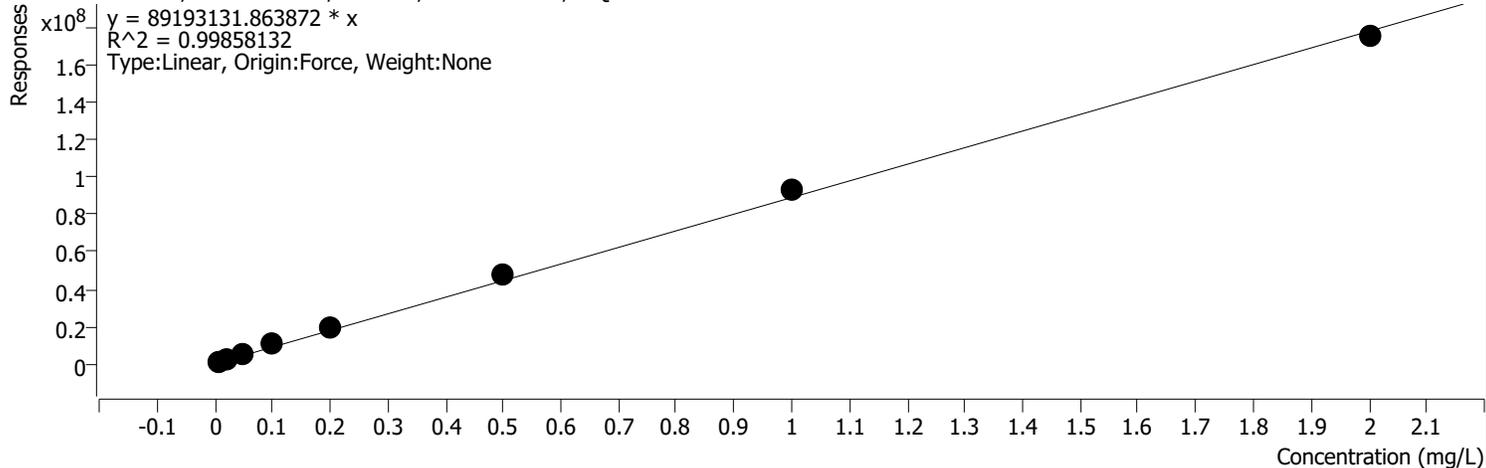
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	35012	0.0050	7002475.1791	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	127123	0.0200	6356150.6047	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	356495	0.0500	7129893.2500	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	734655	0.1000	7346546.5980	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	1399889	0.2000	6999442.9292	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	3381342	0.5000	6762683.9590	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	6668876	1.0000	6668876.3353	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	12522966	2.0000	6261483.2492	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 1 %RSE = 29.4

A1260 1 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



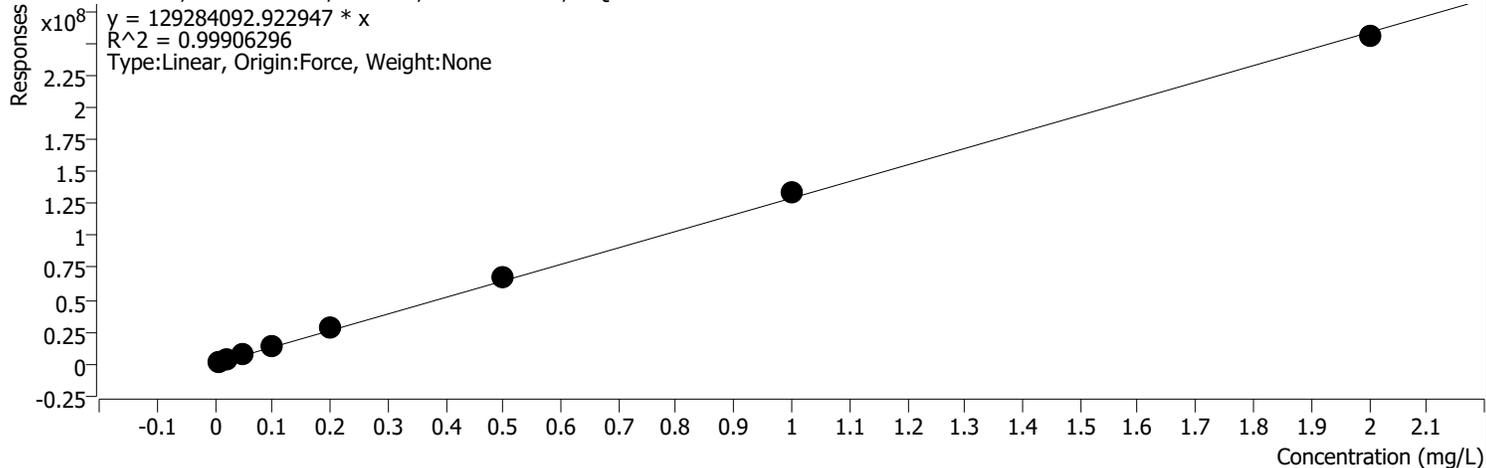
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	710246	0.0050	14204911 0.0000	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	2216793	0.0200	11083966 3.7686	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	5676424	0.0500	11352848 9.2969	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	10213178	0.1000	10213178 2.0768	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	19498234	0.2000	97491168 .1709	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	47302886	0.5000	94605771 .6464	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	93147355	1.0000	93147354 .5135	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	175466509	2.0000	87733254 .6250	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 2 %RSE = 31.5

A1260 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs

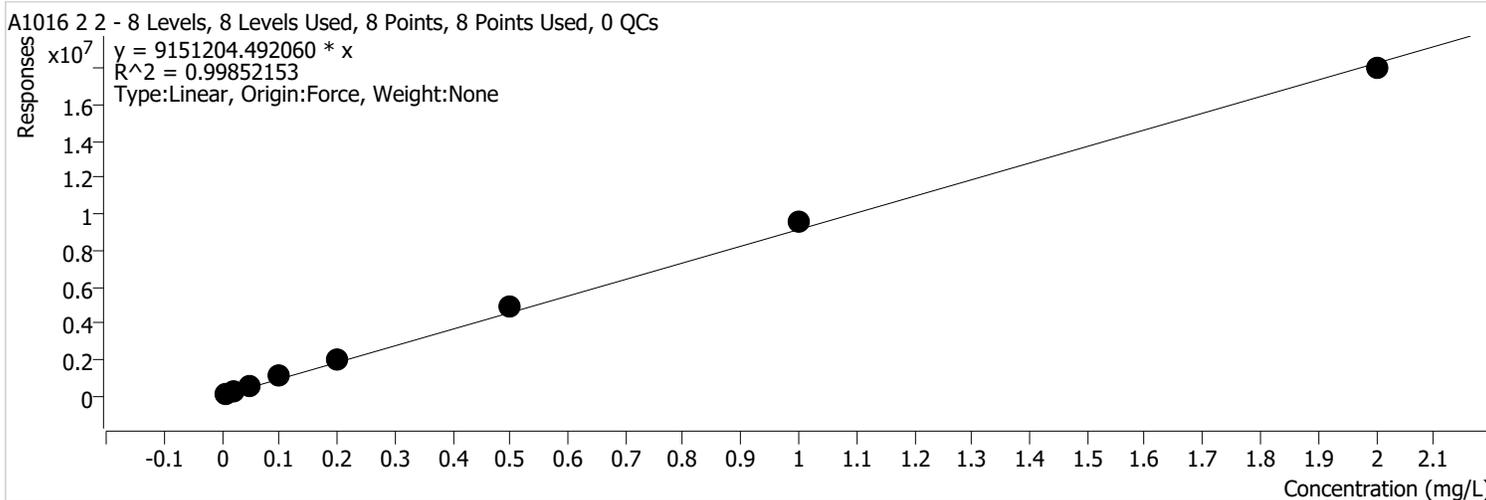


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	1065422	0.0050	21308440 5.0101	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	3270862	0.0200	16354308 0.1119	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	8186819	0.0500	16373637 9.2388	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	14777974	0.1000	14777973 5.0983	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	28469922	0.2000	14234961 0.2500	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	67257014	0.5000	13451402 8.7986	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	133823879	1.0000	13382387 8.5817	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	255239798	2.0000	12761989 8.9077	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 2 2 %RSE = 20.2



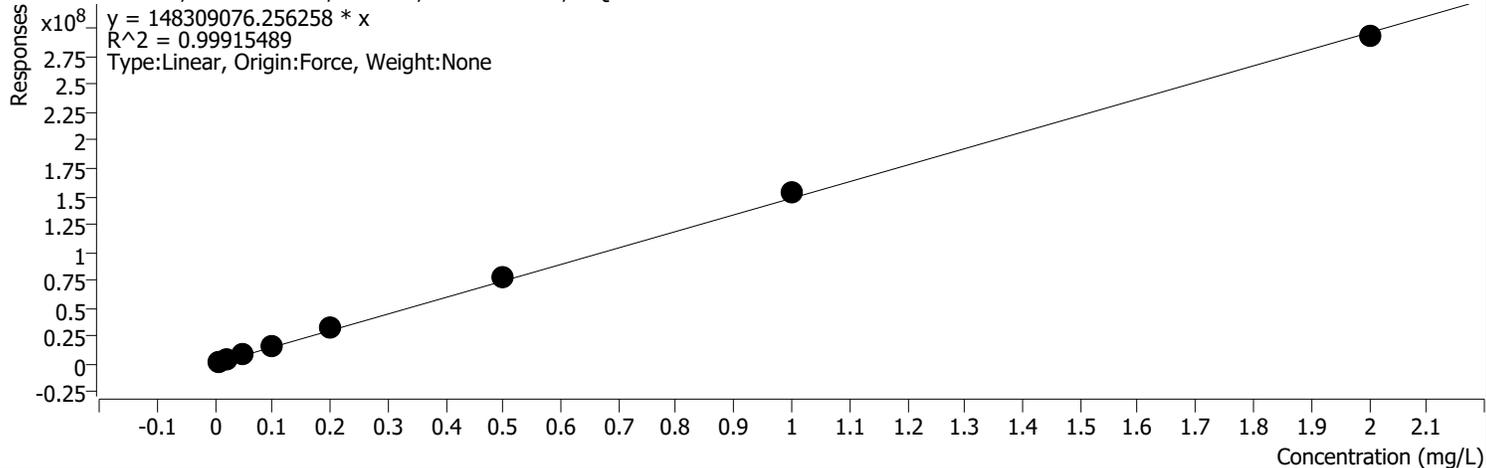
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	60833	0.0050	12166606 .1105	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	198528	0.0200	9926401. 9366	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	584150	0.0500	11683002 .2124	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1085750	0.1000	10857497 .0968	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	2033788	0.2000	10168938 .0418	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	4887471	0.5000	9774941. 8736	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	9525269	1.0000	9525268. 7510	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	18005166	2.0000	9002583. 0344	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 3 %RSE = 24.2

A1260 3 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



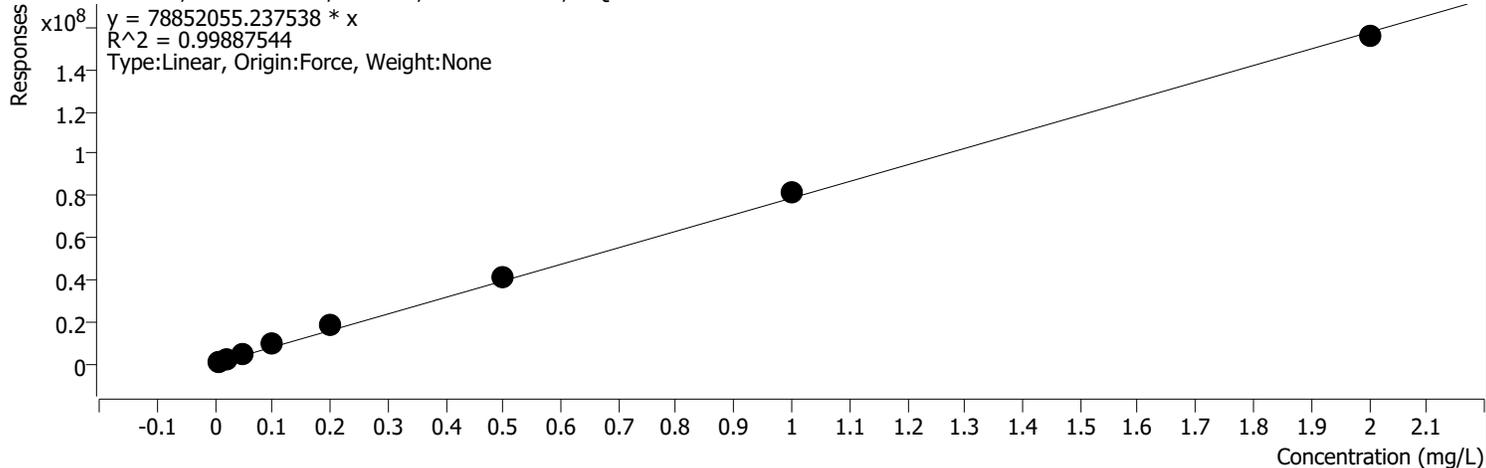
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	1096764	0.0050	21935276 8.2716	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	3442566	0.0200	17212829 3.9362	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	9313940	0.0500	18627880 2.8583	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	16737151	0.1000	16737151 2.7796	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	32946703	0.2000	16473351 7.0101	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	77119946	0.5000	15423989 2.0429	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	153029318	1.0000	15302931 8.3572	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	293039764	2.0000	14651988 2.2215	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 4 %RSE = 24.6

A1260 4 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



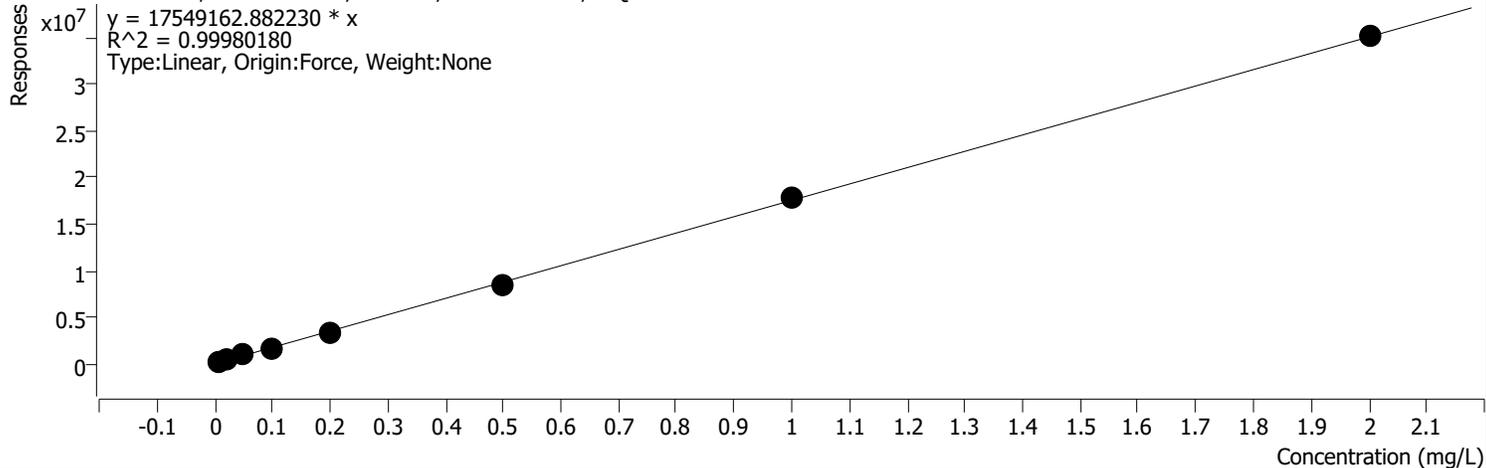
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	567266	0.0050	11345318 1.9942	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	1886462	0.0200	94323083 .4914	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	5058373	0.0500	10116746 0.5000	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	9248978	0.1000	92489784 .4263	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	17942503	0.2000	89712514 .7825	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	41726452	0.5000	83452903 .8575	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	81242066	1.0000	81242066 .1328	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	155617180	2.0000	77808590 .0684	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 3 2 %RSE = 9.4

A1016 3 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



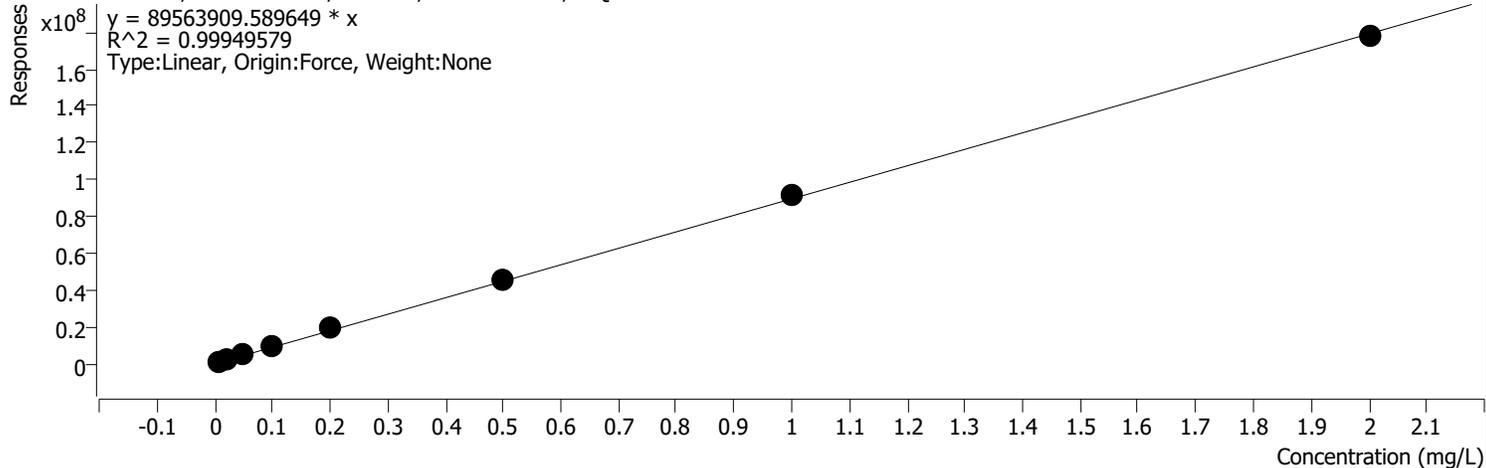
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	106170	0.0050	21233952 .2977	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	333076	0.0200	16653811 .4230	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	918685	0.0500	18373704 .9172	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1725283	0.1000	17252826 .0011	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	3360943	0.2000	16804712 .6909	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	8386793	0.5000	16773586 .3369	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	17733682	1.0000	17733682 .3931	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	35118486	2.0000	17559243 .0492	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 5 %RSE = 31.5

A1260 5 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



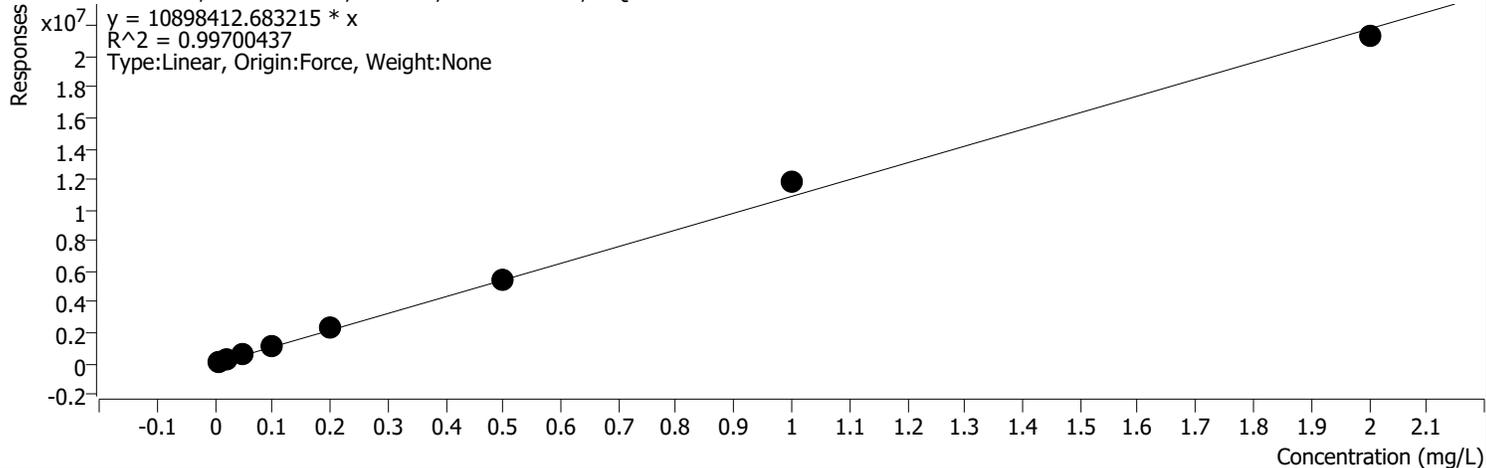
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	742774	0.0050	14855478 2.2966	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	2275603	0.0200	11378012 7.3954	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	5600318	0.0500	11200635 3.5666	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	10066275	0.1000	10066274 9.4681	
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D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	46102030	0.5000	92204059 .0950	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	91524316	1.0000	91524316 .1678	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	177563085	2.0000	88781542 .4250	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 4 2 %RSE = 9.3

A1016 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



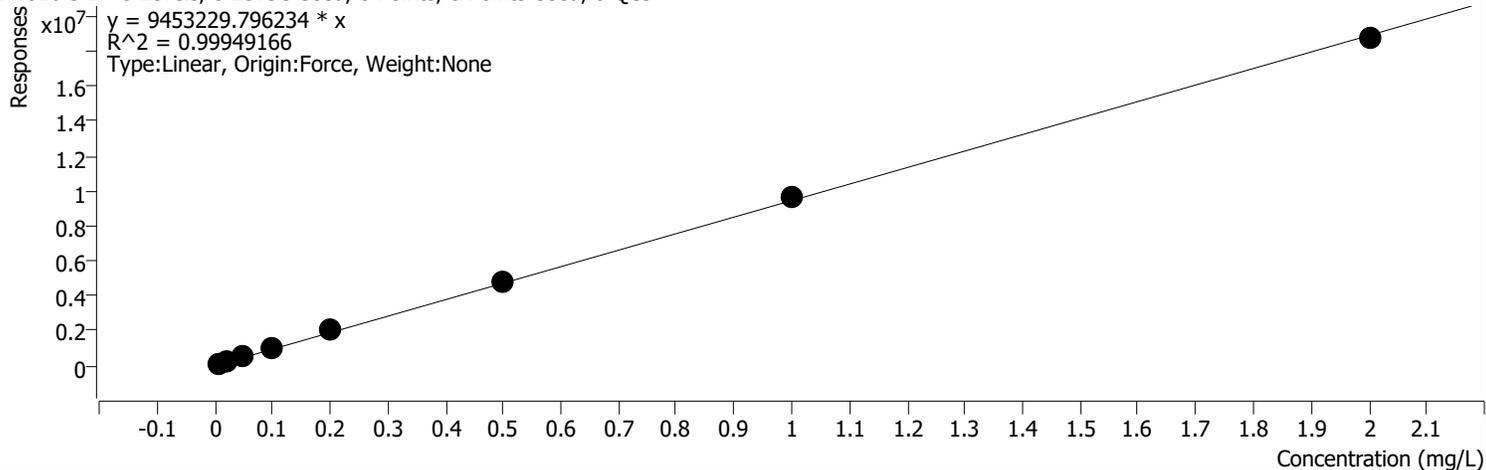
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
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D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	223727	0.0200	11186348 .4163	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	639248	0.0500	12784966 .0931	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1180463	0.1000	11804628 .6482	
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D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	5485013	0.5000	10970025 .8438	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	11845669	1.0000	11845668 .7003	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	21291461	2.0000	10645730 .5345	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1016 5 2 %RSE = 11.6

A1016 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



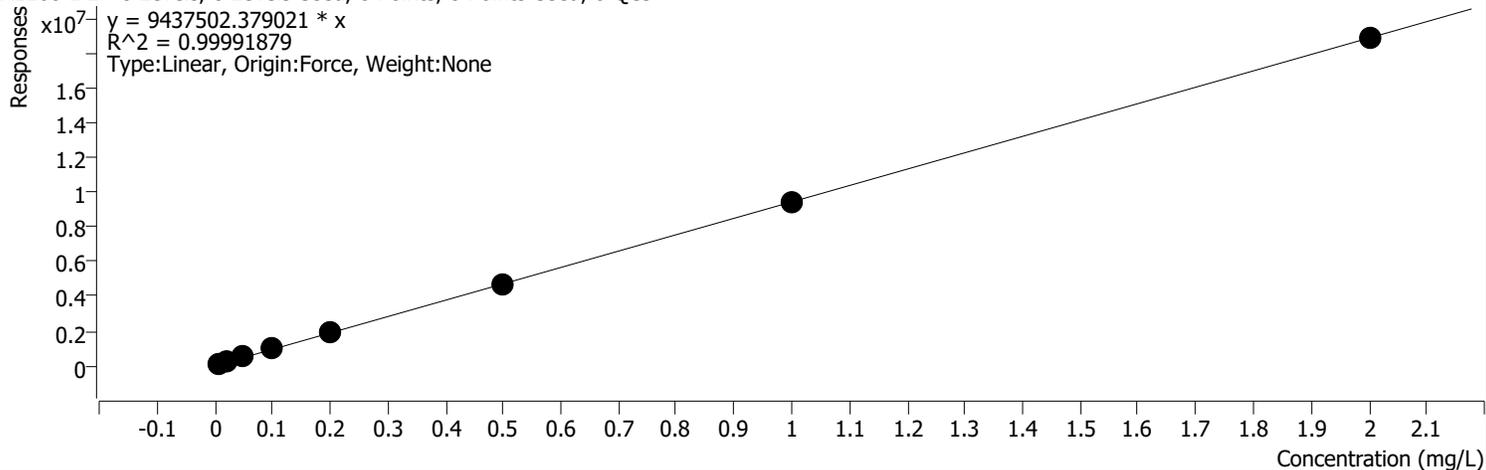
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	57206	0.0050	11441126 .1710	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	191830	0.0200	9591520. 4722	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	549269	0.0500	10985370 .0774	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1006817	0.1000	10068165 .2500	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	2002953	0.2000	10014765 .3650	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	4875330	0.5000	9750660. 4450	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	9723911	1.0000	9723911. 4590	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	18717667	2.0000	9358833. 4296	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 1 2 %RSE = 11.8

A1260 1 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



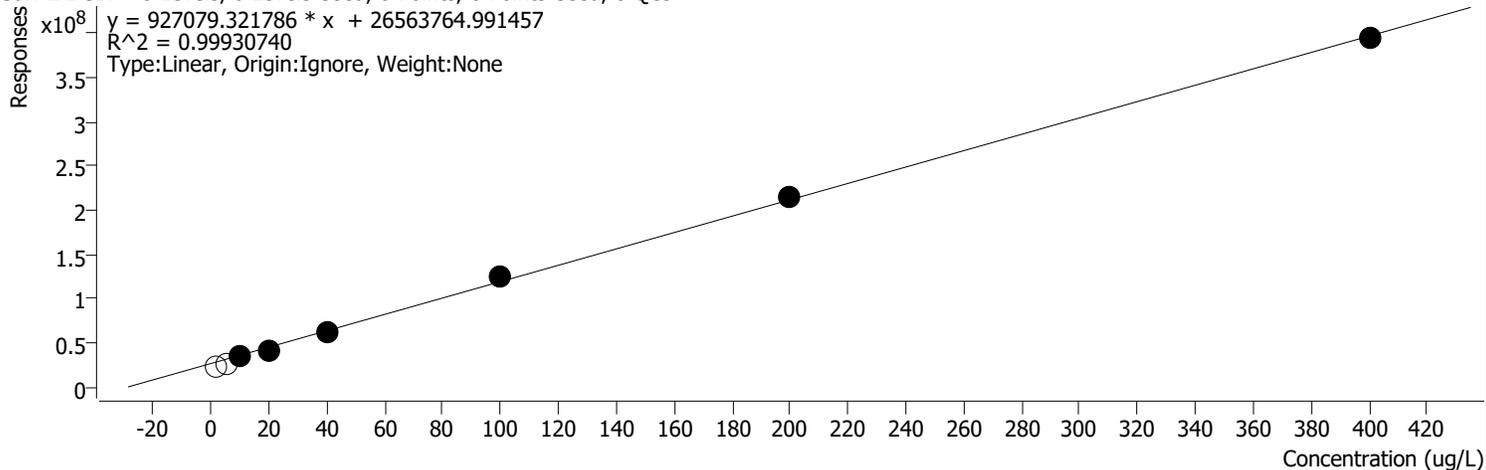
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	58968	0.0050	11793608 .1559	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	201627	0.0200	10081355 .1097	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	508402	0.0500	10168033 .9497	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1017323	0.1000	10173226 .9499	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	2006561	0.2000	10032802 .8105	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	4726744	0.5000	9453487. 4095	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	9479169	1.0000	9479168. 5778	
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Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin		
Analysis Time	8/18/2022 10:12 AM	Analyst Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Reporter Name	FA\GC1625
Last Calib Update	8/18/2022 10:12 AM	Batch State	Processed
Quant Batch Version	10.0	Quant Report Version	10.0

Surr 2 DCBP %RSE = 12.7

Surr 2 DCBP - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



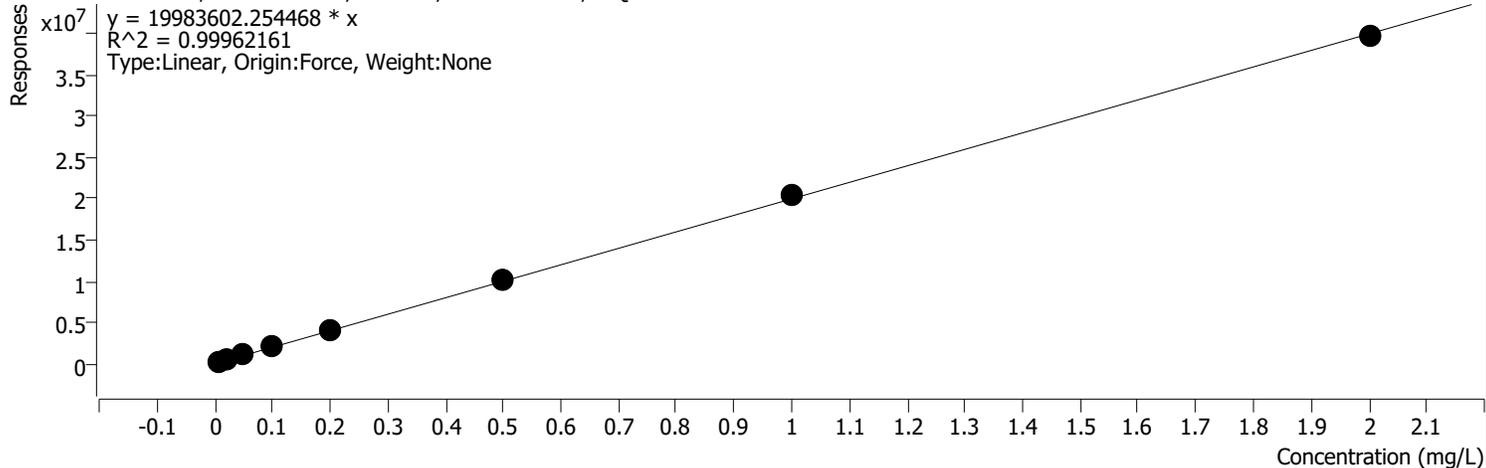
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1		24007952	1.2500	19206361.9240	
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D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	34155611	10.0000	3415561.1236	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	42116810	20.0000	2105840.4770	
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Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 2 2 %RSE = 13.7

A1260 2 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



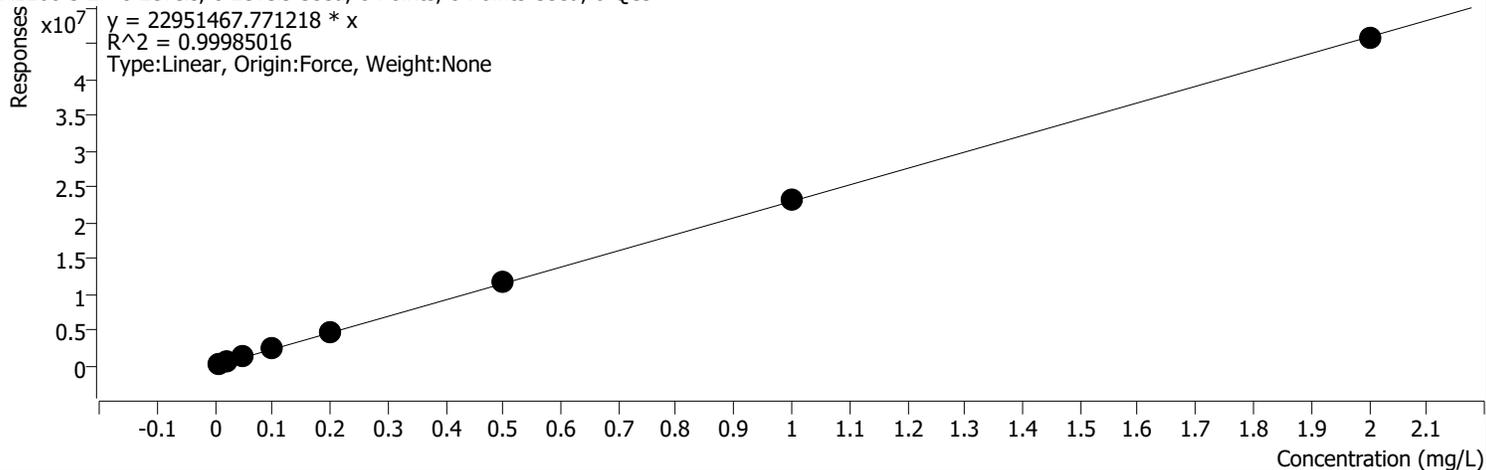
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	127666	0.0050	25533148 .6316	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	416171	0.0200	20808551 .6308	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	1162485	0.0500	23249694 .1649	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	2118132	0.1000	21181319 .2500	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	4197485	0.2000	20987422 .9000	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	10251263	0.5000	20502525 .2247	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	20477689	1.0000	20477688 .9917	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	39624914	2.0000	19812456 .8985	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 3 2 %RSE = 4.0

A1260 3 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



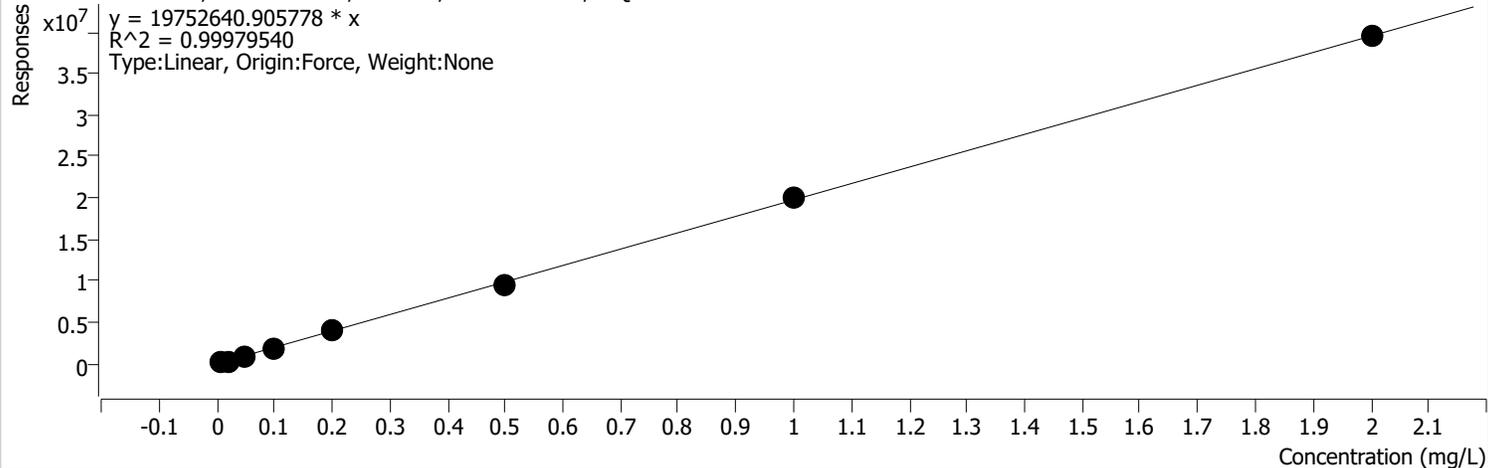
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	122947	0.0050	24589418 .0584	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	472166	0.0200	23608278 .2614	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	1185359	0.0500	23707181 .3145	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	2324932	0.1000	23249318 .0441	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	4793858	0.2000	23969289 .1517	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	11604046	0.5000	23208091 .6608	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	23335134	1.0000	23335134 .1389	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	45656082	2.0000	22828041 .1075	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 4 2 %RSE = 13.9

A1260 4 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



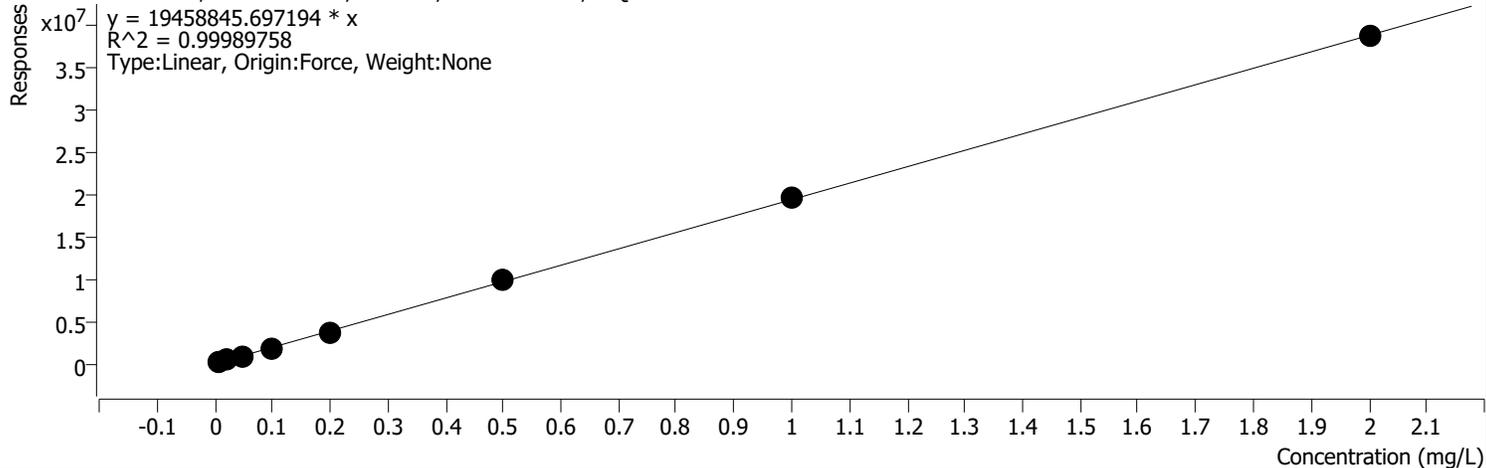
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	71218	0.0050	14243571 .0701	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	338234	0.0200	16911719 .8707	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	950742	0.0500	19014840 .2843	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1739996	0.1000	17399962 .1178	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	3911288	0.2000	19556439 .8219	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	9583811	0.5000	19167622 .9208	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	20099756	1.0000	20099755 .8063	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	39422098	2.0000	19711049 .1617	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

A1260 5 2 %RSE = 9.4

A1260 5 2 - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 0 QCs



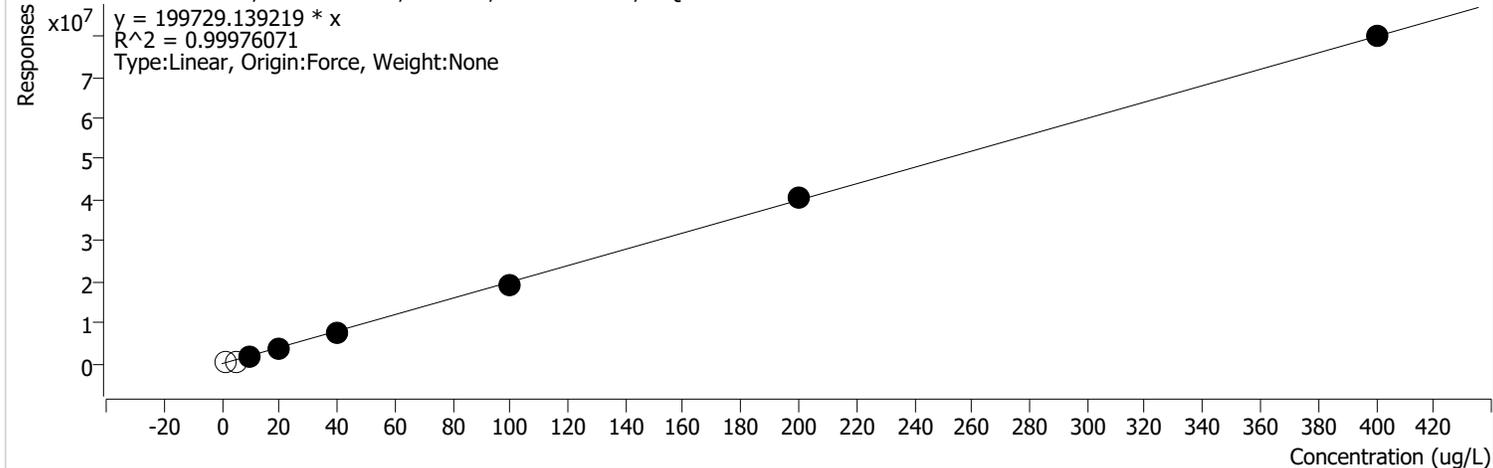
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1	x	76003	0.0050	15200555 .6728	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2	x	367831	0.0200	18391550 .5941	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	974151	0.0500	19483016 .3807	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	1884501	0.1000	18845006 .5905	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	3798356	0.2000	18991780 .2673	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	9852193	0.5000	19704385 .7792	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	19740126	1.0000	19740126 .4509	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	38759005	2.0000	19379502 .7429	

Calibration Report

Batch Path	D:\GC-16\Data\2022\081722\QuantResults\PCB CAL.batch.bin	Analyst Name	FA\GC1625
Analysis Time	8/18/2022 10:12 AM	Reporter Name	FA\GC1625
Report Time	8/18/2022 10:12:52 AM	Batch State	Processed
Last Calib Update	8/18/2022 10:12 AM	Quant Report Version	10.0
Quant Batch Version	10.0		

Surr 2 DCBP 2 %RSE = 6.4

Surr 2 DCBP 2 - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 0 QCs



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor	Level RSD
D:\GC-16\Data\2022\081722\081715.D	Calibration	1		135684	1.2500	108547.5 667	
D:\GC-16\Data\2022\081722\081716.D	Calibration	2		659796	5.0000	131959.2 756	
D:\GC-16\Data\2022\081722\081717.D	Calibration	3	x	1897272	10.0000	189727.2 483	
D:\GC-16\Data\2022\081722\081718.D	Calibration	4	x	3611120	20.0000	180556.0 163	
D:\GC-16\Data\2022\081722\081719.D	Calibration	5	x	7509549	40.0000	187738.7 248	
D:\GC-16\Data\2022\081722\081720.D	Calibration	6	x	19349275	100.0000	193492.7 463	
D:\GC-16\Data\2022\081722\081721.D	Calibration	7	x	40507761	200.0000	202538.8 072	
D:\GC-16\Data\2022\081722\081722.D	Calibration	8	x	79836234	400.0000	199590.5 849	

PCB Calibration

Date: 8/17/22 Cal Std (1016/1260): 26765 Concentration: 100 ug/mL
 Analyst: OK ICV Std (SS): 24706 Concentration: 100 ug/mL
 Aroclors: 1221: 20519 1232: 23017 1242: 23020 1248: 23021
 1254: 23486 1262: 23022 1268: 20520 Conc: 1000 ug/mL
 Hexane: 6422 SURROGATE: 27122 Concentration: 20 ug/mL

Calibration Point (ppb)	Surr Cal Pt (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol. (mL)	Comments
2000	400	960	Cal Std	20	20	1	
1000	200	980	Cal Std	10	10	1	
500	100	990	Cal Std	5	5	1	
200	40	900	2000*	100	--	1	*Points 200, 100, and 50 will be made with prepared Point 2000
100	20	950	2000*	50	--	1	
50	10	975	2000*	25	--	1	
20	(5)	900	200**	100	--	1	**Points 20 and 5 will be made with prepared Point 200
5	(1.25)	975	200**	25	--	1	
ICB	200	990	--	--	10	1	
ICV (1000 ppb)	200	980	ICV	10	10	1	

Note: Points 20 and 10 will contain surrogate as they are prepared from a mixed std, but will not be included in the surr curve.

Single Point Aroclors

Calibration Point	Surr Conc (ppb)	Hexane (uL)	STD ID	STD Amt (uL)	Surr Amt (uL)	Final Vol (mL)	Comments
2000	200	988	Each Aroclor	2	10	1	

Signature and Date:  8/17/22

Appendix G

Quality Assurance/Quality Control of Analytical Data

CONTENTS

G.1 Introduction 1

G.2 Analytical Methods and Data Quality Objectives 2

G.3 Summary of Samples 3

G.4 Data Quality Review 5

 G.4.1 Sample Handling 5

 G.4.2 Method Blanks 5

 G.4.3 Laboratory Control Samples 2

 G.4.4 Matrix Spike Samples 2

 G.4.5 Laboratory Duplicates 3

 G.4.6 Surrogate Recovery 3

 G.4.7 Field Duplicates 4

 G.4.8 Analytical Sensitivity 5

 G.4.9 Additional Flags 5

G.5 Summary of Qualified Results 6

G.6 Completeness 6

Exhibits

Exhibit G-1: Work Order Summary 3

Attachments

- EcoChem, Data Validation Report, 8801 E Marginal Way, Project C13109-2 (16 pages)
- Laboratory Data Review Checklists (381 pages)
 - Laboratory Data Review Checklist, Laboratory Report 2102417 (12 pages)
 - Laboratory Data Review Checklist, Laboratory Report 2103028 (11 pages)
 - Laboratory Data Review Checklist, Laboratory Report 2109200 (10 pages)
 - Laboratory Data Review Checklist, Laboratory Report 2109220 (10 pages)

APPENDIX G: QUALITY ASSURANCE/QUALITY CONTROL OF ANALYTICAL DATA

- Laboratory Data Review Checklist, Laboratory Report 2109234 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109317 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109340 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109371 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109394 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109439 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109457 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109493 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2109508 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110033 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110054 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110067 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110139 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110219 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110251 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110287 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110360 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2110520 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2111114 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2111458 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2111483 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2112242 (12 pages)
- Laboratory Data Review Checklist, Laboratory Report 2112277 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2112301 (11 pages)
- Laboratory Data Review Checklist, Laboratory Report 2112321 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2201334 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208229 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208249 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208276 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208314 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208325 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208415 (10 pages)
- Laboratory Data Review Checklist, Laboratory Report 2208478 (10 pages)

G.1 INTRODUCTION

This quality assurance/quality control (QC) summary outlines the technical review of analytical results generated in support of remedial excavation confirmation sampling conducted at 8801 East Marginal Way S., Tukwila, Washington (8801 site) during September 15, 2021, through September 1, 2022. Soil sampling data are summarized below. Analytical results tables are attached to the Compliance Monitoring Report.

With the exception of the dioxin/furan results (on which EcoChem performed EPA Stage 2A), Shannon & Wilson performed U.S. Environmental Protection Agency (EPA) Stage 2B (summary validation) on the chemical analysis results.

EcoChem performed an EPA Stage 2A review of dioxin/furan analytical data reported for soil confirmation samples. Based on their review, EcoChem determined that the accuracy and precision was acceptable and the dioxin/furan data as qualified, was acceptable for use. The EcoChem Data Validation Report is attached to this appendix and the results are not discussed further in this appendix.

Shannon & Wilson reviewed project and QC analytical data to assess whether the data met the designated quality objectives and were acceptable for project use. The review included evaluation of the following: sample collection and handling, holding times, blanks (to assess contamination), project sample and laboratory quality control sample duplicates (to assess precision), laboratory control samples (LCSs) and sample surrogate recoveries (to assess accuracy), and matrix spike sample (MS) recoveries (to assess matrix effects). Calibration curves and continuing calibration verification (CCV) recoveries were not reviewed unless a QC discrepancy was noted by the laboratory in a case narrative. QC deviations that do not impact data quality (e.g., high LCS recovery associated with non-detect results), are not discussed. More elaborate data quality descriptions are reported in the Laboratory Data Review Checklists (LDRCs), which are enclosed with this appendix.

Sample results and method detection limits (MDLs) for non-detect results were compared to the remediation levels presented in the Compliance Monitoring Plan (CMP)¹. Applicable data quality indicators are discussed for each method under separate subheadings. Data which did not meet acceptance criteria have been described and the associated samples and data quality implications or qualifications are summarized.

¹Shannon & Wilson, 2021a, Compliance monitoring plan, 8801 East Marginal Way S., Tukwila, Washington, agreed order no 6069: Report prepared by Shannon & Wilson, Seattle, Wash., 21-1-12567-031, for PACCAR Inc, Bellevue, Wash., March 15.

G.2 ANALYTICAL METHODS AND DATA QUALITY OBJECTIVES

The analytical methods and associated data quality objectives (DQOs) used for this review were established in the CMP. The DQOs represent the minimum acceptable QC limits and goals for analytical measurements and are used as comparison criteria during data quality review to determine both the quality and usability of the analytical data.

The six DQOs used for this review were accuracy, precision, representativeness, comparability, sensitivity, and completeness.

- Accuracy measures the correctness, or the closeness, between the true value and the quantity detected. It is measured by calculating the percent recovery of known concentrations of spiked compounds that were introduced into the appropriate sample matrix. Surrogate, LCS, and MS sample recoveries were used to measure accuracy for this project.
- Precision measures the reproducibility of repetitive measurements. It is measured by calculating the relative percent difference (RPD) between duplicate samples. Laboratory duplicate samples, field duplicate samples, MS and matrix spike duplicate (MSD) sample pairs, and LCS and laboratory control sample duplicate (LCSD) pairs were used to measure precision for this project.
- Representativeness describes the degree to which data accurately and precisely represents site characteristics. This is addressed in more detail in the following section(s).
- Comparability describes whether two data sets can be considered equivalent with respect to the project goal. This is addressed in more detail in the following section(s).
- Sensitivity describes the lowest concentration that the analytical method can reliably quantitate and is evaluated by verifying that the detected results and/or limits of detection/RLs meet the project-specific remediation levels and/or screening levels.
- Completeness describes the amount of valid data obtained from the sampling event(s). It is calculated as the percentage of valid measurements compared to the total number of measurements. The completeness goal for this project was set at 90%.

In addition to these criteria for the six DQOs described above, sample collection and handling procedures and blank samples were reviewed to ensure overall data quality. Sample handling was reviewed to assess parameters such as chain-of-custody (COC) documentation, the use of appropriate sample containers and preservatives, shipment cooler temperature, and method-specified sample holding times. Each of these parameters contributes to the general representativeness and comparability of the project data. The

combination of evaluations of the above-mentioned parameters will lead to a determination of the overall project data completeness.

G.3 SUMMARY OF SAMPLES

Project and quality control samples were analyzed by Fremont Analytical of Seattle, Washington, a Washington State Department of Ecology approved laboratory for the requested analyses.

The laboratory reports were assigned the following work order (WO) numbers:

Exhibit G-1: Work Order Summary

Laboratory WO	Area	Duplicate Samples
2102417	Area 4, Area 5, Area 7, and Area 8	A4-3:8 / A4-103:8 A8-1:10 / A8-101:10
2103028	Area 5	A5-5:12 / A5-105:12
2109200	Gravel Borrow – WA Rock	None
2109220	Area 4	A4-SIDE5:2 / A4-SIDE100:2
2109234	Area 5	None
2109317	Area 2	A2-BOT4:2.5 / A2-BOT100:2.5
2109340	Area 1	A1-BOT100:4 / A1-BOT100:4 A1-SIDE2:3 / A1-SIDE100:3
2109371	Area 5 and Batch Water	A5-SIDE14:7 / A5-SIDE100:7
2109394	Area 3	None
2109439	Area 5 Groundwater	None
2109457	Area 2	None
2109493	Area 3	A3-SIDE18:2 / A3-SIDE100:2
2109508	Area 3 and Area 5	A3-SIDE4:5 / A3-SIDE101:5 A5-SIDE6:2 / A5-SIDE101:2
2110033	Area 1	None
2110054	Area 4	None
2110067	Area 2, Area 4, Area 6, Area 7, and Area 8	A4-SIDE17:2 / A4-SIDE101:2 A6-SIDE3:5 / A6-SIDE100:5 A7-SIDE2:7 / A7-SIDE100:7 A8-SIDE3:3 / A8-SIDE100:3
2110139	Monthly Surface Water	None
2110219	Area 2, Area 3, and Area 6	A2-SIDE9:3 / A2-SIDE101:3 A3-SIDE28:3 / A3-SIDE101:3
2110251	Area 3 and Area 4	None

APPENDIX G: QUALITY ASSURANCE/QUALITY CONTROL OF ANALYTICAL DATA

2110287	Area 2, Area 3, and Area 4	A4-SIDE28:6 / A4-SIDE102:6
2110360	Area 2 and Area 3	None
2110520	Area 4	A4-SIDE34:2 / A4-SIDE103:2 A4-SIDE46:2 / A4-SIDE104:2
2111114	Area 3 and Area 5	None
2111458	UST Contents	None
2111483	UST Contents-2	None
2112242	Area 4	A4-SIDE50:2 / A4-SIDE200:2 A4-SIDE58:2 / A4-SIDE201:2 A4-SIDE62:10 / A4-SIDE202:10
2112277	Area 4	A4-SIDE69:1.5 / A4-SIDE203:1.5 A4-SIDE73:2.5 / A4-SIDE204:2.5 A4-SIDE76:1.5 / A4-SIDE205:1.5 A4-SIDE78:1.5 / A4-SIDE206:1.5
2112301	Area 4	A4-SIDE79:2 / A4-SIDE206:2 A4-SIDE80:1.5 / A4-SIDE20:1.5 A4-SIDE82:1.5 / A4-SIDE208:1.5 A4-SIDE83:3 / A4-SIDE209:3 A4-SIDE86:1.5 / A4-SIDE210:1.5
2112321	Area 4	A4-SIDE88:1.5 / A4-SIDE211:1.5
2201334	Area 4	A4-SIDE134:6 / A4-SIDE217:2 A4-SIDE124:1 / A4-SIDE216:1 A4-SIDE215:2 / A4-SIDE121:2
2208229	Area 4	None
2208249	Area 4	None
2208276	Area 4	None
2208314	Area 4	A2-SIDE150:2 / A2-SIDE218:2
2208325	Area 4	None
2208415	Area 4	A2-SIDE171:2 / A2-SIDE219:2 A2-SIDE176:2 / A2-SIDE220:2
2208478	Area 4	None

The laboratory reports are included in Appendix F and associated LDRCs are enclosed in this appendix.

G.4 DATA QUALITY REVIEW

This section presents the findings of the data quality review and the resulting data qualifications for project samples. See the associated LDRCs enclosed in this appendix for more elaborate data quality descriptions.

G.4.1 Sample Handling

The evaluation of proper sample handling procedures includes verification of the following: correct COC documentation, appropriate sample containers and preservatives, cooler temperatures maintained within the recommended temperature range (0° to 6° Celsius [°C]), and sample analyses performed within method-specified holding times. No sample handling discrepancies were noted upon receipt at the laboratory which resulted in data qualification. See the associated LDRC for a more detailed discussion.

G.4.2 Method Blanks

Method blanks were utilized to detect potential laboratory cross-contamination of project samples. Samples are considered affected if they are detected within ten times the concentration of the detection in the method blank. Samples were analyzed in every batch, as required. There were no method blank detections that resulted in data qualifications, with the following exceptions.

- WO 2102417
 - A metals method blank sample had a detection for arsenic. The associated sample A5-6:8 had a detection for arsenic within ten times the method blank detection. The sample result is considered estimated, biased high, and flagged “JH” to denote the possible laboratory cross-contamination.
- WO 2103028
 - A metals method blank sample had a detection for arsenic. The associated samples A5-2:9, A5-4:8, and A5-5:12 had detections for arsenic within ten times the method blank detection. The sample results are considered estimated, biased high, and flagged “JH” to denote the possible laboratory cross-contamination. However, due to conflicting bias for a MS recovery failure, the arsenic result for sample A5-5:12 is considered estimated, no direction of bias, and is flagged “J” to denote the QC failures.
- WO 2109371
 - A metals method blank sample had a detection for cadmium. The associated sample A5-SIDE12:3 had a detection within ten times the method blank detection. The sample results are considered estimated, biased high, and flagged “JH” to denote the possible laboratory cross-contamination.

The metals method blank sample had detections for lead. The associated sample A5-SIDE13:7 had a detection within ten times the method blank detection. The sample results are considered estimated, biased high, and flagged “JH” to denote the possible laboratory cross-contamination.

G.4.3 Laboratory Control Samples

The LCS/LCSD samples were prepared by adding spike compounds to blank samples in order to assess laboratory extraction and instrumentation performance. The LCS/LCSD recoveries and/or RPDs were within laboratory and project limits and did not result in qualification of the data. See the associated LDRC for a more detailed discussion.

G.4.4 Matrix Spike Samples

MS samples are prepared by adding spike compounds to project samples to assess potential matrix interference. The MS/MSD and/or RPDs were within laboratory and project limits and did not result in qualification of the data with the following exceptions.

- WO 2103028
 - The metals MS and MSD had recovery and RPD failures for arsenic and mercury. The parent sample A5-105:12 and field-duplicate pair A5-5:12 are considered estimated, biased low, and are flagged “JL”. However, due to conflicting bias with a method blank detection, the arsenic result A5-5:12 is considered estimated, no direction of bias, and is flagged “J” to identify the QC failures.
- WO 2109371
 - The PAH MS/MSD RPD was outside QC limits for benzo(k)fluoranthene. The parent sample A3-SIDE28:3 is considered affected, and the result is flagged ‘J’ to denote the imprecision.
- WO 2110216
 - The polycyclic aromatic hydrocarbon (PAH) MSD had a high recovery for dibenzo(a,h)anthracene. The associated sample A2-SIDE9:3 had a detection for this analyte and the result is considered estimated, biased high, and is flagged “JH” to identify the QC failure.
- WO 2110287
 - The copper post-digestion MS spike had a low recovery failure. The parent sample upon which the MS sample was performed is project sample A4-SIDE25:6. The copper result is considered estimated, biased low, and flagged “JL” to identify the QC failure.
- WO 2112242

- The MS/MSD RPDs were outside QC limits for copper. The parent samples A4-SIDE57:11, A4-SIDE60:15, and A4-SIDE62:5 are considered affected and the results are flagged “J” to denote the imprecision.
- The MS/MSD RPD was outside QC limits for Aroclor-1016. The parent sample A4-SIDE64:2 is considered affected, and the result is flagged “J” to denote the imprecision.
- The MS/MSD RPDs were outside QC limits for Aroclor-1260. The parent samples A4-SIDE61:15 and A4-SIDE64:2 are considered affected and the results are flagged “J” to denote the imprecision.
- WO 2112277
 - The MS/MSD RPDs were outside QC limits for Aroclor-1016 and Aroclor-1260. The parent sample A4-SIDE65:2 is considered affected, and the result are flagged “J” to denote the imprecision.
- WO 2112242
 - The MS/MSD RPD was outside QC limits for Aroclor-1016. The parent sample A4-SIDE65:2 is considered affected, and the result is flagged “J” to denote the imprecision.

G.4.5 Laboratory Duplicates

Laboratory duplicates are project samples that are analyzed twice to assess laboratory precision. The laboratory duplicate RPDs were within laboratory and project limits and did not result in qualification of the data with the following exceptions.

- WO 2109371
 - The laboratory duplicate RPD was outside QC limits for gasoline analysis. The non-detect result for parent sample A3-SIDE28:3 is considered affected and is flagged “J” to denote the imprecision.
- WO 2109371
 - The laboratory duplicate RPD was outside QC limits for gasoline analysis. The non-detect result for parent sample A7-SIDE1:7 is considered affected and is flagged “J” to denote the imprecision.

G.4.6 Surrogate Recovery

Surrogate compounds were added to project samples by the laboratory prior to analysis, in accordance with method requirements. Recoveries were then calculated as percentages and reported by the laboratory as a measure of analytical extraction efficiency. Surrogate recoveries were inside the established control limits, with the following exceptions.

- WO 2103028

- The polychlorinated biphenyl (PCB) surrogate tetrachloro-m-xylene had a gross low recovery failure for project sample A5-3:10. The associated analytes Aroclor-1254, Aroclor-1260, Aroclor-1262, and Aroclor-1268 are considered affected. Due to the gross low surrogate recovery failure, the non-detect results are considered unusable and are flagged "R" to identify the gross QC failure. The Aroclor-1254 result is considered estimated, biased low, and is flagged "JL."

G.4.7 Field Duplicates

Field duplicate sample was collected and submitted to the laboratory as a blind sample in accordance with the overall project objectives. Field duplicate samples were collected at the required frequency for the overall project. Field duplicates met the project-specified DQO of 50% for soil samples in all WOs and are considered comparable, with the following exceptions.

- WO 2102417
 - The RPDs for field duplicate pair A4-3:8 / A4-103:8 were outside QC limits for 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 2,3,4,7,8,9-HxCDF, OCDD, OCDF, total HpCDD, total HpCDF, total HxCDD, total HxCDF, total PeCDF, and total TCDF. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2109371
 - The RPD for field duplicate pair A5-SIDE14:7 / A5-SIDE100:7 was outside QC limits for lead. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2109508
 - The RPDs for field duplicate pair A4-SIDE4:5 / A4-SIDE101:5 were outside QC limits for gasoline and copper. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2109371
 - The RPDs for field duplicate pair A2-SIDE9:3 / A2-SIDE101:3 were outside QC limits for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
 - The RPD for field duplicate pair A3-SIDE28:3 / A3-SIDE101:3 was outside QC limits for copper. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2110520

- The RPDs for field duplicate pair A4-SIDE46:2 / A4-SIDE103:2 were outside QC limits for Aroclor-1254 and copper. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2112242
 - The RPD for field duplicate pair A4-SIDE58:2 / A4-SIDE201:2 was outside QC limits for copper. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2112277
 - The RPD for field duplicate pair A4-SIDE76:1.5 / A4-SIDE205:1.5 was outside QC limits for Aroclor-1254. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2112301
 - The RPD for field duplicate pair A4-SIDE86:1.5 / A4-SIDE210:1.5 was outside QC limits for copper. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2201334
 - The RPDs for field duplicate pair A4-SIDE134:2 / A3-SIDE217:2 were outside QC limits for copper, Aroclor-1254, and Total PCBs. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2208314
 - The RPDs for field duplicate pair A3-SIDE150:2 / A3-SIDE218:2 were outside QC limits for Aroclor-1254 and Total PCBs. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.
- WO 2208415
 - The RPDs for field duplicate pair A3-SIDE171:2 / A3-SIDE219:2 were outside QC limits for Aroclor-1254 and Total PCBs. These analyte results are considered estimated with no direction of bias and are flagged "J" to denote the imprecision.

G.4.8 Analytical Sensitivity

Analytical sensitivity was evaluated to verify that the MDLs met the applicable regulatory levels for non-detect results. The non-detect results were less than the remediation limits defined in the CMP.

G.4.9 Additional Flags

Additional QC failures that were not discussed above are assessed in this section.

- The laboratory noted that the lead result for sample A5-3:10 exceeded the laboratory calibration range. The sample result for this analyte is considered estimated and is flagged “J” to identify the QC failure.
- The laboratory noted that several samples associated with WOs 2109394, 2109493, and 2109508 exhibited a chromatographic pattern that is inconsistent with the gasoline range organic (GRO) pattern by Northwest Total Petroleum Hydrocarbon-Gasoline Extended analysis. The detections for GRO were due to unresolved, non-target compounds for the analysis of gasoline range organics. The samples A3-BOT13:6, A3-BOT21:3, A3-BOT23:3, A3-SIDE3:2.5, A3-SIDE4:2.5, A3-SIDE5:2.5, A3-SIDE6:2.5, A3-SIDE6:5, A3-SIDE10:2.5, and A3-SIDE100:2 exhibited this chromatographic pattern, and the results are considered tentatively identified.
- The laboratory noted samples A4-1:8, A4-3:8, and A4-103:8 had interfering compounds that were included in the total HxCDF, total PeCDF, total TCDD, and/or total TCDF concentrations for dioxin analysis in WO 2102417. The sample results are considered estimated and are flagged “J” to identify the potential interference.
- The laboratory noted several CCV recovery failures in WO number 2109394. The following samples are considered affected by the CCV failures:
 - The project samples A3-BOT13:6, A3-BOT14:6, A3-BOT15:6, A3-BOT16:6, A3-SIDE10:5, A3-SIDE11:2.5, A3-SIDE11:5, A3-SIDE12:22.5, and A3-SIDE12.5 were associated with high CCV failures. The detected results are considered estimated, biased high, and are flagged “JH” in to identify the high bias.
 - The project samples A3-SIDE9:5 and A3-SIDE10:2.5 were associated with low CCV failures. The detected results are considered estimated, biased low, and are flagged “JL” in to identify the low bias.

G.5 SUMMARY OF QUALIFIED RESULTS

Overall, the data validation process suggested the project data was acceptable for use, with the minor exceptions noted above resulting in qualification of the data. We did not reject any analytical results due to failures with laboratory QC samples, sample handling, or other issues. Flags can be found in the associated analytical summary tables.

G.6 COMPLETENESS

No data were rejected pursuant to the data quality review, and data may be used, as qualified, for the purposes of the project.



DATA VALIDATION REPORT

8801 E MARGINAL WAY

Prepared for:

Shannon and Wilson
404 N 34th Street, Suite 100
Seattle, WA 98103

Prepared by:

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EcoChem Project: C13109-2

March 22, 2021

Approved for Release:

A handwritten signature in black ink, appearing to read "Christine Ransom". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Christine Ransom
Technical Manager
EcoChem, Inc.

PROJECT NARRATIVE

Basis for the Data Validation

This report summarizes the results compliance review (EPA Stage 2A) performed on soil and quality control sample data for the 8801 E Marginal Way project. A complete list of samples is provided in the **Sample Index**.

Samples were analyzed by Frontier Analytical, El Dorado Hills, California. The analytical method and EcoChem project chemists are listed in the following table:

ANALYSIS	METHOD	PRIMARY REVIEW	SECONDARY REVIEW
Dioxins/Furans	EPA 1613	E. Clayton	C. Ransom

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Lower Duwamish Waterway Sampling and Analysis Plan and Quality Assurance Project Plan* (Leidos, Inc., February 2017); *National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review* (USEPA, April 2016).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned a DNR, the data are to should not be used as a more appropriate result exists. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Validation criteria are included as **APPENDIX A**. The qualified data summary table (QDST) is included as **APPENDIX B**. Data Validation Worksheets and project associated communications will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

Sample Index
8801 E Marginal Way

SDG	SAMPLE ID	LAB ID	Dioxins/Furans
2102417	A4-1:8	13613-001-SA	✓
2102417	A4-3:8	13613-002-SA	✓
2102417	A4-103:8	13613-003-SA	✓

DATA VALIDATION REPORT
Shannon & Wilson - 8801 E Marginal Way
Dioxin/Furan Compounds by EPA 1613A

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Frontier Analytical, El Dorado Hills, California. Refer to the **Sample Index** for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
2102414	3 Soil	Stage 2A

DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

EDD TO HARDCOPY VERIFICATION

All sample IDs and results reported in the electronic data deliverable (EDD) were verified (100% verification) by comparing the EDD to the hardcopy laboratory data package. Ten percent (10%) of the laboratory QC results were also verified.

TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

✓	Sample Receipt, Preservation, and Holding Times	2	Field Duplicates
✓	Laboratory Blanks	✓	Target Analyte List
1	Field Blanks	✓	Reporting Limits
✓	Labeled Compound Recovery	1	Compound Identification
✓	Ongoing Precision and Recovery (OPR)	2	Compound Quantitation

✓ Method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.

1 Quality control results are discussed below, but no data were qualified.

2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Field Blanks

No field blank samples were submitted with this SDG.

Field Duplicates

One set of field duplicates was submitted: A4-3:8 and A4-103:8. A relative percent difference control limit of 50% was used to evaluate results greater than 5x the reporting limit (RL). For results less than 5x the RL, the difference between the values must be less than 2x the RL. Precision outliers are noted in the following table. Results in the parent and duplicate were estimated (J-9).

ANALYTE	OUTLIER	QUALIFIER
1,2,3,6,7,8-HxCDD	RPD	J-9
1,2,3,7,8,9-HxCDD	RPD	J-9
1,2,3,4,6,7,8-HpCDD	RPD	J-9
OCDD	RPD	J-9
1,2,3,4,7,8-HxCDF	Diff >2x RL	J-9
2,3,4,6,7,8-HxCDF	Diff >2x RL	J-9
1,2,3,4,6,7,8-HpCDF	RPD	J-9
1,2,3,4,7,8,9-HpCDF	RPD	J-9
OCDF	RPD	J-9
Total HxCDD	RPD	J-9
Total HpCDD	RPD	J-9
Total TCDF	RPD	J-9
Total PeCDF	RPD	J-9
Total HxCDF	RPD	J-9
Total HpCDF	RPD	J-9

Compound Identification

The method requires the confirmation of 2,3,7,8-TCDF detects using an alternate GC column. The DB5 column that is typically used cannot fully separate 2,3,7,8-TCDF from closely eluting non-target TCDF isomers. The laboratory did not perform a second column confirmation for Sample A4-1:8; however, the laboratory uses a DB5MS column. This modified column has been proven to adequately resolve the TCDF isomers. No action was taken.

Compound Quantification

Several results for total homolog groups were flagged as containing EMPCs or diphenyl ether interferences for one or mor congeners in the chlorination group. These results were estimated (J-25) to indicate a potential high bias.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory performed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the labeled compound and OPR recoveries and precision was acceptable as indicated by the field duplicate RPD values.

Data were estimated based on field duplicate precision outliers. Some total homolog groups were estimated based on EMPCs and diphenyl ether interferences.

All data, as qualified, are acceptable for use.



APPENDIX A

**DATA QUALIFIER DEFINITIONS
REASON CODES
AND CRITERIA TABLES**

DATA VALIDATION QUALIFIER CODES **Based on National Functional Guidelines**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
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DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L) ¹ where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L) ¹ where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L) ¹ for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L) ¹ where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L) ¹ where appropriate
	12	Reference Material Use bias flags (H,L) ¹ where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L) ¹ where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L) ¹ where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2 nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

¹H = high bias indicated

L = low bias indicated

DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler temperature, pH, summa canister pressure); Exceeded Holding Times
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
	5A	Initial Calibration (RF, %RSD, r^2)
	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L) ¹ where appropriate
	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L) ¹ where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L) ¹ for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L) ¹ where appropriate
	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L) ¹ where appropriate
	12	Reference Material Use bias flags (H,L) ¹ where appropriate
	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L) ¹ where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L) ¹ where appropriate
	19	Internal Standard Performance (i.e., area, retention time, recovery)
	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
	3	2 nd column confirmation (RPD or %D)
	4	Tentatively Identified Compound (TIC) (associated with NJ only)
	20	Calibration Range or Linear Range Exceeded
	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, re-extractions, etc. Associated with "R" and "DNR" only)
	14	Other (See DV report for details)
	26	Method QC information not provided

¹H = high bias indicated

L = low bias indicated

Dioxin/Furan Analysis by HRMS
(Based on Dioxin NFG 2011 and Methods EPA 1613B and SW-846 8290)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Sample Handling					
Cooler/Storage Temperature Preservation	Waters/Solids ≤ 6°C & in the dark Tissues < -10°C & in the dark Preservation Aqueous: If Cl ₂ is present Thiosulfate must be added and if pH > 9 it must be adjusted to 7 - 9	NFG ⁽¹⁾ Method ⁽²⁾	J(pos)/R(ND) if thiosulfate not added if Cl ₂ present; J(pos)/UJ(ND) if pH not adjusted J(pos)/UJ(ND) if temp > 20°C	1	EcoChem PJ, see TM-05
Holding Time	If properly stored, 1 year or: Extraction (all matrices): 30 days from collection Analysis (all matrices): 45 days from extraction	NFG ⁽¹⁾ Method ⁽²⁾	If not properly stored or HT exceedance: J(pos)/UJ(ND)	1	EcoChem PJ, see TM-05 Gross exceedance = > 1 year 2011 NFG Note: Under CWA, SDWA, and RCRA the HT for H ₂ O is 7 days.
Instrument Performance					
Mass Resolution (Tuning)	PFK (Perfluorokerosene) ≥10,000 resolving power at m/z 304.9824. Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift.	NFG ⁽¹⁾ Method ⁽²⁾	R(pos/ND) all analytes in all samples associated with the tune	24	Notify PM
Windows Defining Mix	Peaks for first and last eluters must be within established retention time windows for each selector group (chlorination level)	NFG ⁽¹⁾ Method ⁽²⁾	If peaks are not completely within windows (clipped): If natives are ok, J(pos)/UJ(ND) homologs (Totals) If natives are affected, R all results for that selector group	24	Notify PM
Column Performance Mix	Both mixes must be analyzed before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) where x = ht. of TCDD (or TCDF) & y = baseline to bottom of valley For all isomers eluting near the 2378-TCDD (TCDF) peak (TCDD only for 8290)	NFG ⁽¹⁾ Method ⁽²⁾	J(pos) if valley > 25%	24	EcoChem PJ, see TM-05, Rev. 2; Note: TCDF is evaluated only if second column confirmation is performed
Initial Calibration Sensitivity	S/N ratio > 10 for all native and labeled compounds in CS1 std.	NFG ⁽¹⁾ Method ⁽²⁾	If <10, elevate Det. Limit or R(ND)	5A	
Initial Calibration Selectivity	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	NFG ⁽¹⁾ Method ⁽²⁾	If 2 or more ion ratios are out for one compound in ICAL, J(pos)	5A	EcoChem PJ, see TM-05, Rev. 2

Dioxin/Furan Analysis by HRMS
(Based on Dioxin NFG 2011 and Methods EPA 1613B and SW-846 8290)

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Instrument Performance (continued)					
Initial Calibration (Minimum 5 stds.) Stability	%RSD < 20% for native compounds %RSD < 30% for labeled compounds (%RSD < 35% for labeled compounds under 1613b)	NFG ⁽¹⁾ Method ⁽²⁾	J(pos) natives if %RSD > 20%	5A	EcoChem PJ, see TM-05, Rev. 2
	Absolute RT of ¹³ C ₁₂ -1234-TCDD >25 min on DB5 & >15 min on DB-225	NFG ⁽¹⁾ Method ⁽²⁾	Narrate, no action		
Continuing Calibration (Prior to each 12 hr. shift) Sensitivity	S/N ratio for CS3 standard > 10	NFG ⁽¹⁾ Method ⁽²⁾	If <10, elevate Det. Limit or R(ND)	5B	
Continuing Calibration (Prior to each 12 hr. shift) Selectivity	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	NFG ⁽¹⁾ Method ⁽²⁾	For congener with ion ratio outlier, J(pos) natives in all samples associated with CCAL. No action for labeled congener ion ratio outliers.	25	EcoChem PJ, see TM-05
Continuing Calibration (Prior to each 12 hr. shift) Stability	%D +/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) If %D in the closing CCAL are within 25%/35%, the mean RF from the two CCAL may be used to calculate samples (Section 8.3.2.4 of 8290).	NFG ⁽¹⁾ Method ⁽²⁾	Labeled compounds: Narrate, no action. Native compounds: 1613: J(pos)/UJ(ND) if %D is outside Table 6 limits J(pos)/R(ND) if %D is +/-75% of Table 6 limits 8290: J(pos)/UJ(ND) if %D = 20% - 75% J(pos)/R(ND) if %D > 75%	5B (H,L) ³	
	Absolute RT of ¹³ C ₁₂ -1234-TCDD and ¹³ C ₁₂ -123789-HxCDD should be ± 15 seconds of ICAL RRT for all other compounds must meet criteria listed in Table 2 Method 1316.	NFG ⁽¹⁾ Method ⁽²⁾	Narrate, no action	5B	EcoChem PJ, see TM-05
Blank Contamination					
Method Blank (MB)	MB: One per matrix per batch of (of ≤ 20 samples) No detected compounds > RL	NFG ⁽¹⁾ Method ⁽²⁾	U(pos) if result is < 5X action level.	7	Hierarchy of blank review: #1 - Review MB, qualify as needed #2 - Review FB, qualify as needed
Field Blank (FB)	FB: frequency as per QAPP No detected compounds > RL		U(pos) if result is < 5X action level.	6	

**Dioxin/Furan Analysis by HRMS
(Based on Dioxin NFG 2011 and Methods EPA 1613B and SW-846 8290)**

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Precision and Accuracy					
MS/MSD (recovery)	MS/MSD not typically required for HRMS analyses. If lab analyzes MS/MSD then one set per matrix per batch (of ≤ 20 samples) Use most current laboratory control limits	EcoChem standard policy	J(pos) if both %R > UCL - high bias J(pos)/UJ(ND) if both %R < LCL - low bias J(pos)/R(ND) if both %R < 10% - very low bias J(pos)/UJ(ND) if one > UCL & one < LCL, with no bias PJ if only one %R outlier	8 (H,L) ³	No action if only one spike %R is outside criteria. No action if parent concentration is > 4x the amount spiked. Qualify parent sample only unless other QC indicates systematic problems.
MS/MSD (RPD)	MS/MSD not typically required for HRMS analyses. If lab analyzes MS/MSD then one set per matrix per batch (of ≤ 20 samples) Use most current laboratory control limits	EcoChem standard policy	J(pos) in parent sample if RPD > CL	9	Qualify parent sample only.
LCS (or OPR)	One per lab batch (of ≤ 20 samples) Use most current laboratory control limits or Limits from Table 6 of 1613B	NFG ⁽¹⁾ Method ⁽²⁾	J(pos) if %R > UCL - high bias J(pos)/UJ(ND) if %R < LCL - low bias J(pos)/R(ND) if %R < 10% - very low bias	10 (H,L) ³	No action if only one spike %R is outside criteria, when LCSD is analyzed. Qualify all associated samples.
LCS/LCSD (RPD)	LCSD not typically required for HRMS analyses. One set per matrix and batch of 20 samples RPD < 35%	Method ⁽²⁾ EcoChem standard policy	J(pos) assoc. compound in all samples if RPD > CL	9	Qualify all associated samples.
Lab Duplicate (RPD)	Lab Dup not typically required for HRMS analyses. One per lab batch (of ≤ 20 samples) Use most current laboratory control limits	EcoChem standard policy	J(pos)/UJ(ND) if RPD > CL	9	
Labeled Compounds (Internal Standards)	Added to all samples %R = 40% - 135% in all samples 8290 %R must meet limits in Table 7 Method 1613B	NFG ⁽¹⁾ Method ⁽²⁾	J(pos) if %R > UCL - high bias J(pos)/UJ(ND) if %R < LCL - low bias J(pos)/R(ND) if %R < 10% - very low bias	13 (H,L) ³	
Field Duplicates	Solids: RPD < 50% OR difference < 2X RL (for results < 5X RL) Aqueous: RPD < 35% OR difference < 1X RL (for results < 5X RL)	EcoChem standard policy	Narrate and qualify if required by project	9	Use professional judgment

**Dioxin/Furan Analysis by HRMS
(Based on Dioxin NFG 2011 and Methods EPA 1613B and SW-846 8290)**

QC Element	Acceptance Criteria	Source of Criteria	Action for Non-Conformance	Reason Code	Discussion and Comments
Compound ID and Calculation					
Quantitation/ Identification	All ions for each isomer must maximize within ± 2 seconds. S/N ratio >2.5 Ion ratios must meet criteria listed in Table 8 Method 8290, or Table 9 of 1613B; RRTs w/in limits in Table 2 of 1613B	NFG ⁽¹⁾ Method ⁽²⁾	Narrate in report; qualify if necessary NJ(pos) for retention time outliers. U(pos) for ion ratio outliers.	25	EcoChem PJ, see TM-05
EMPC (estimated maximum possible concentration)	If quantitation identification criteria are not met, laboratory should report an EMPC value.	NFG ⁽¹⁾ Method ⁽²⁾	If laboratory correctly reported an EMPC value, qualify the native compound U(pos) to indicate that the value is a detection limit and qualify total homolog groups J (pos)	25	Use professional judgment See TM-18
Interferences	Interferences from chlorodiphenyl ether compounds	NFG ⁽¹⁾ Method ⁽²⁾	J(pos)/UJ(ND) if present	23	See TM-16
	Lock masses must not deviate $\pm 20\%$ from values in Table 8 of 1613B	Method ⁽²⁾	J(pos)/UJ(ND) if present	24	See TM-17
Second Column Confirmation	All 2,3,7,8-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC criteria must also be met for the confirmation analysis.	NFG ⁽¹⁾ Method ⁽²⁾	Report the DB-225 value. If not performed use PJ.	3	DNR-11 DB5 result if both results from both columns are reported. EcoChem PJ, see TM-05
Calculation Check	Check 10% of field & QC sample results	EcoChem standard policy	Contact laboratory for resolution and/or corrective action	na	Full data validation only.
Electronic Data Deliverable (EDD)					
Verification of EDD to hardcopy data	EcoChem verify @ 10% unless problems noted; then increase level up to 100% for next several packages.		Depending on scope of problem, correct at EcoChem (minor issues) to resubmittal by laboratory (major issues).	na	EcoChem Project Manager and/or Database Administrator will work with lab to provide long-term corrective action.
Dilutions, Re-extractions and/or Reanalyses	Report only one result per analyte	Standard reporting policy	Use "DNR" to flag results that will not be reported.	11	

(pos) - positive (detected) results; (ND) - not detected results

¹ National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) & Chlorinated Dibenzofurans (CDFs) Data Review, September 2011

² Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-Resolution Gas Chromatography/High-Resolution Mass Spectrometry (HRGC/HRMS), USEPA SW-846, Method 8290

³ EPA Method 1613, Rev.B, Tetra-through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGS/HRMS, October 1994

³ NFG 2013 suggests using "+" / "-" to indicate bias; EcoChem has chosen "H" = high bias indicated; "L" = low bias indicated.



APPENDIX B

QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
8801 E Marginal Way

SAMPLE ID	LAB ID	METHOD	ANALYTE	RESULT	UNITS	LAB QUAL	DV QUAL	DV CODE
A4-1:8	13613-001-SA	E1613A	Total HxCDF	28.5	pg/g	D,M	J	25
A4-1:8	13613-001-SA	E1613A	Total PeCDF	24.5	pg/g	D,M	J	25
A4-1:8	13613-001-SA	E1613A	Total TCDD	7.41	pg/g	M	J	25
A4-1:8	13613-001-SA	E1613A	Total TCDF	25.6	pg/g	D,M	J	25
A4-3:8	13613-002-SA	E1613A	1,2,3,4,6,7,8-HpCDD	5430	pg/g	*	J	9
A4-3:8	13613-002-SA	E1613A	1,2,3,4,6,7,8-HpCDF	1050	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	1,2,3,4,7,8,9-HpCDF	62.4	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	1,2,3,4,7,8-HxCDF	14.1	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	1,2,3,6,7,8-HxCDD	113	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	1,2,3,7,8,9-HxCDD	37.8	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	2,3,4,6,7,8-HxCDF	12.5	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	OCDD	89300	pg/g	*	J	9
A4-3:8	13613-002-SA	E1613A	OCDF	5260	pg/g	*	J	9
A4-3:8	13613-002-SA	E1613A	Total HpCDD	11200	pg/g	*	J	9
A4-3:8	13613-002-SA	E1613A	Total HpCDF	4860	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	Total HxCDD	881	pg/g		J	9
A4-3:8	13613-002-SA	E1613A	Total HxCDF	460	pg/g	D,M	J	9,25
A4-3:8	13613-002-SA	E1613A	Total PeCDF	31.8	pg/g	D,M	J	9,25
A4-3:8	13613-002-SA	E1613A	Total TCDF	32.2	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,4,6,7,8-HpCDD	1440	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,4,6,7,8-HpCDF	230	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,4,7,8,9-HpCDF	14.4	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,4,7,8-HxCDF	7.68	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,6,7,8-HxCDD	40.8	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	1,2,3,7,8,9-HxCDD	22.3	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	2,3,4,6,7,8-HxCDF	6.93	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	OCDD	19800	pg/g	*	J	9
A4-103:8	13613-003-SA	E1613A	OCDF	1130	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	Total HpCDD	3000	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	Total HpCDF	888	pg/g		J	9

Qualified Data Summary Table
8801 E Marginal Way

SAMPLE ID	LAB ID	METHOD	ANALYTE	RESULT	UNITS	LAB QUAL	DV QUAL	DV CODE
A4-103:8	13613-003-SA	E1613A	Total HxCDD	497	pg/g		J	9
A4-103:8	13613-003-SA	E1613A	Total HxCDF	194	pg/g	D,M	J	9,25
A4-103:8	13613-003-SA	E1613A	Total PeCDF	66.2	pg/g	D,M	J	9,25
A4-103:8	13613-003-SA	E1613A	Total TCDF	73.1	pg/g	D,M	J	9,25

Laboratory Data Review Checklist

Completed By:

Reviewed and Validated by Michael Jaramillo

Title:

Senior Chemist

Date:

December 14, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

Note:

The data validation for Dioxins/Furan analysis by EPA Method 1613 was conducted by EcoChem, Inc. and summarized in their Data Validation Report dated March 22, 2021. Refer to the EcoChem, Inc. report for assessment of data quality and usability for Dioxins/Furan analysis.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples for the analysis of Dioxins/Furans by EPA Method 1613 were transferred to the subcontract laboratory Frontier Analytical, Inc., a WA State Department of Ecology approved laboratory for the requested analysis (ID C844-22a).

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Dioxins/Furans analysis were subcontracted to Frontier Analytical Laboratory.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

The laboratory report was revised March 17, 2021 to include additional analyses requested by Shannon & Wilson. The laboratory report was revised a second time on March 18, 2021 to correct reporting limits for PCB analysis.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

However, the method blank associated preparation batch 31537 had a detection for arsenic at an estimated concentration below the RL.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

The samples *A5-6:8* and *A5-9:12* requested arsenic analysis and are associated with the preparation batch 31537. Samples are considered affected if the analyte is detected at a concentration less than ten times the method blank detection.

- Sample *A5-6:8* had a detection for arsenic at a concentration greater than ten times the method blank detection. The sample result is not affected by the method blank detection.
- Sample *A5-9:12* had a detection for arsenic at a concentration greater than five times but less than ten times the method blank detection. The sample result is considered estimated, biased high, and flagged 'JH' to denote the possible laboratory cross-contamination.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

v. Data quality or usability affected?

Comments:

The data quality/usability are affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS and laboratory duplicate were reported for gasoline analysis.

An LCS was reported for PCB analysis. Refer to Section 6.c for assessment of laboratory precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for metal analyses. Refer to Section 6.c for assessment of laboratory precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

MS samples were reported for gasoline analysis. Refer to Section 6.b for assessment of laboratory precision.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for metal analyses.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The gasoline MS associated with preparation batch 31625 had a high recovery failure for gasoline. the parent sample A8-1:9 had an initial concentration greater than the spiking concentration. This may introduce large uncertainty in the recovery calculation and the recovery failure may not be representative of laboratory performance. Data quality and usability are not affected.

The metals MS associated with preparation batch 31629 had a low recovery failure for lead. The parent sample is not associated with the project sample set. Data quality and usability are not affected.

The metals MS and MSD associated with preparation batch 31537 had low recovery failures for arsenic, copper, and lead. The parent sample is not associated with the project sample set. Data quality and usability are not affected.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; project samples are not affected. See above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

We cannot confirm that the trip blank was kept with the VOA samples. However, target analytes were not detected in the trip blank sample and project samples are not affected by this omission.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

Sample A4-103:8 is a field duplicate for sample A4-3:8.
Sample A8-101:10 is a field duplicate for sample A8-1:10.

ii. Submitted blind to lab?

Yes No N/A Comments:

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

Field duplicate RPDs were within the project-specific DQO of 50% for soils, where calculable.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2102417

Laboratory Report Date:

March 21, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Reviewed and Validated by Michael Jaramillo

Title:

Senior Chemist

Date:

December 28, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Analysis were performed by Fremont Analytical.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The laboratory report was revised March 17, 2021 to include additional analyses requested by Shannon & Wilson. The laboratory report was revised a second time to correct the PCB reporting limits.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

6. QC Samples

a. Method Blank

- i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

- ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

However, the method blank associated preparation batch 31537 had a detection for arsenic at an estimated concentration below the RL.

- iii. If above RL or project specified objectives, what samples are affected?

Comments:

The samples *A5-2:9*, *A5-4:8*, and *A5-5:12* are associated with the preparation batch 31537. Samples are considered affected if the analyte is detected at a concentration less than ten times the method blank detection.

- Samples *A5-2:9*, *A5-4:8*, and *A5-5:12* had detections for arsenic at concentrations greater than five times but less than ten times the method blank detection. The sample results are considered estimated, biased high, and flagged 'JH' to denote the possible laboratory cross-contamination. However, due to conflicting bias due to a low MS recovery failure, the arsenic result for *A5-5:12* are considered estimated, no direction of bias and is flagged 'J'.

- iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- v. Data quality or usability affected?

Comments:

The data quality/usability are affected.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis. Refer to Section 6.c for assessment of laboratory precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for metal analyses. Refer to Section 6.c for assessment of laboratory precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSD nor laboratory duplicate samples were reported for the requested analyses. Refer to Section 6.c for assessment of laboratory precision.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for metal analyses.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The metals MS and MSD associated with preparation batch 31537 had low recovery failures for arsenic and lead. The parent sample is not associated with the project sample set. Data quality and usability are not affected.

The metals MS associated with preparation batch 31552 had low recovery failures for arsenic and lead. The parent sample *A5-105:12* and field-duplicate pair *A5-5:12* are considered affected.

The metals MS associated with preparation batch 31629 had a low recovery failure for lead. The parent sample is not associated with the project sample set. Data quality and usability are not affected.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The metals MS/MSD associated with preparation batch 31552 had RPD failures for arsenic and lead. The parent sample *A5-105:12* and field-duplicate pair *A5-5:12* are considered affected.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The arsenic and lead results for sample *A5-105:12* and field-duplicate pair *A5-5:12* are considered affected by the low MS recovery and MS/MSD RPD failures. The sample results are considered estimated, biased low, and are flagged 'JL' to identify the possible matrix interference. However, due to conflicting bias for a method blank detection, the arsenic result for sample *A5-5:12* is considered estimated, no direction of bias, and is flagged 'J' to identify the QC failures.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

The PCB surrogate tetrachloro-m-xylene had a gross low recovery failure in project sample *A5-3:10*.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The associated analytes Aroclor-1254, Aroclor-1260, Aroclor-1262, and Aroclor-1268 are considered affected. However, due to the gross low surrogate recovery failure, the non-detect results are considered unusable and are flagged 'R' to identify the gross QC failure. The Aroclor-1254 result is considered estimated, biased low, and is flagged 'JL'.

iv. Data quality or usability affected?

Comments:

The data quality/usability is affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

However, the trip blank sample and associated VOA samples were not analyzed in association with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A

Comments:

Sample A5-105:12 is a field duplicate for sample A5-5:12.

ii. Submitted blind to lab?

Yes No N/A

Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No N/A

Comments:

Field duplicate RPDs were within the project-specific DQO of 50% for soils, where calculable, with the exception of lead. However, the lead results were previously qualified due to MS/MSD recovery and RPD failures. Further qualification is not required.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is affected.

2103028

Laboratory Report Date:

March 17, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

The lead result for sample *A5-3:10* was flagged 'E' by the laboratory to identify that the result exceeded the instrument calibration range. The result is considered estimated and is flagged 'J' to identify the uncertainty in the concentration.

Laboratory Data Review Checklist

Completed By:

Reviewed/Validated by Michael Jaramillo

Title:

Senior Chemist

Date:

November 1, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

However, samples were collected within one hour of sample delivery. Samples did not have sufficient time to cool prior to delivery to the laboratory but were properly preserved by the laboratory upon receipt. Sample results are not affected by the sample receipt temperature.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were not discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The matrix spike (MS) and matrix spike 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.

Sample 2109200-001A (*Gravel Borrow – WA Rock*) required acid and florisol cleanup prior to sample analysis. Sample results are not affected.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not documented.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability were not affected; see above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability are not affected; see above.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

However, copper and heavy oils (RRO) were detected at estimated concentrations below the RL.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Sample *Gravel Borrow – WA Rock* had a detection for copper greater than ten times the method blank detection. Sample results are not affected by the method blank detection for this analyte.

Sample *Gravel Borrow – WA Rock* did not have a detection for RRO. The sample result is not affected by the potential high bias to the analytical data.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCS/LCSDs were reported for PAH and PCB analyses.

An LCS and laboratory duplicate were reported for GRO, DRO, and RRO analyses.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS sample was reported for metals analysis. Refer to Section 6.c for assessment of laboratory precision.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

LCS/LCSD and laboratory duplicate samples had accuracy and precision within laboratory acceptance criteria.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for DRO and RRO analyses.

An MS was reported for GRO analysis. Refer to Section 6.b for assessment of laboratory precision.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for isotopic metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

MS/MSD samples had accuracy and precision within laboratory acceptance criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

- iv. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

- e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

v. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability were not affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

2109200

Laboratory Report Date:

September 17, 2021

Report Name:

8801 - Excavations

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 25, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample receipt form indicates that the samples arrived within the required temperature range. However, a note is included that states sample 1 was measured at 22.9 degrees Celsius.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Sample preservation is not required for metals or PCB analyses.

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

We do not consider the data quality to be impacted by the temperature exceedance. The samples were collected within a few hours of delivery to the laboratory and did not have sufficient time to cool. The laboratory chilled the samples upon receipt. We also note that both metals and PCBs are highly stable within the soil matrix and are unlikely to be adversely affected by temperature.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The laboratory noted that the following samples required the Acid and Florisil Cleanup Procedures via methods 3665A and 3620C prior to running the PCB analyses: *A4-SIDE4:2, A4-SIDE4:6, A4-SIDE3:2, A4-SIDE3:6, A4-SIDE2:2, A4-SIDE2:6, A4-SIDE5:2, A4-SIDE5:6, A4-SIDE6:2, A4-SIDE6:6, and A4-SIDE1:6.*

c. Were all corrective actions documented?

Yes No N/A Comments:

No corrective actions were documented in the case narrative besides the implementation of the Acid and Florisil Cleanup Methods.

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability were not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Copper was detected at estimated concentrations in the method blank samples associated with preparation batches 69965 and 70005.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

None; all field samples contained copper concentrations more than ten times that of the concentrations detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability are not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for metals analysis in each preparation batch. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; see above.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The samples are not affected by method recovery failures.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability are not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for total metals analysis.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The MS and MSD sample reported with preparation batch 70005 exhibited a recovery failure for copper.

The MSD sample reported with preparation batch 69971 exhibited elevated recovery for the PCB Aroclor 1016.

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS and MSD samples reported for preparation batch 70005 were spiked from the field sample *A4-SIDE1:2*. However, the copper spiking concentration added to the matrix was low relative to the native concentration in the parent sample. The resulting uncertainty may render the MS/MSD recoveries unrepresentative of actual method performance. Additionally, the LCS recovery for copper was within control limits.

The MSD sample reported for preparation batch 69971 was spiked from the field sample *A4-SIDE100:2*. However, the parent sample did not contain a detectable concentration of the PCB Aroclor 1016. The non-detect result is therefore unaffected by the possible matrix effects causing elevated method recovery.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The results do not require qualification; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

All surrogate recoveries are within laboratory control limits.

- iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested on this work order. A trip blank was not required.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

v. Data quality or usability affected?

Comments:

The data quality/usability are not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A

Comments:

ii. Submitted blind to lab?

Yes No N/A

Comments:

The field duplicate samples *A4-SIDE5:2* and *A4-SIDE100:2* were submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No N/A

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A

Comments:

The samples were not collected with reusable equipment. An equipment blank was not required.

2109220

Laboratory Report Date:

September 20, 2021

Report Name:

8801 - Excavations

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 8, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

The COC was revised in a correspondence with the project manager dated 9/17/2021. Both the original and corrected COCs are appended.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Sample preservation is not required for metals analyses.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability are not affected.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability are not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

None; target analytes were not detected in the method blank sample.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability are not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Organic analyses were not requested for this work order.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS sample was reported for metals analysis. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

A LCSD was not reported for this work order. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The samples were not affected by method recovery failures.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability are not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Organic analyses were not requested for this work order.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for total metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The percent recovery of lead in the MS sample was below the laboratory's lower control limit.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS sample was spiked from the field sample *A5-SIDE3:2*. However, the lead spiking concentration added to the matrix was low relative to the native concentration in the parent sample. The resulting uncertainty may render the MS recovery unrepresentative of actual method performance. Additionally, the LCS recovery for lead was within control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The results do not require qualification; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

Surrogates or IDA are not used for total metals analysis.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

Surrogates are not reported for inorganic analyses.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogates are not reported for inorganic analyses.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested on this work order. A trip blank was not required.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability are not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

The samples were not collected with reusable equipment. A equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109234

Laboratory Report Date:

September 22, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green

Title:

Environmental Scientist

Date:

November 25, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability are not affected.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability are not affected; see above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

None; target analytes were not detected in the method blank sample.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metal/inorganic analysis was not requested on this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

An LCSD was not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The samples were not affected by method recovery failures.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metal/inorganic analyses were not requested on this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The results do not require qualification; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries were within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested on this work order. A trip blank was not required.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

v. Data quality or usability affected?

Comments:

The data quality/usability are not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate samples *A2-BOT4:2.5* and *A2-BOT100:2.5* were submitted with this work order.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

Target analytes were not detected in the duplicate samples. An RPD cannot be calculated.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

The samples were not collected with reusable equipment. An equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109317

Laboratory Report Date:

September 23, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 26, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were not discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not documented.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability is not affected.

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability are not affected; see above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the method blanks.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/inorganic analyses were not requested on this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

An LCSD was not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD and laboratory duplicate samples.

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected; see above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS samples were reported for this work order as well as laboratory duplicate samples for assessment of laboratory accuracy and precision.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/inorganic analyses were not requested on this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

MS and laboratory duplicate samples demonstrated method accuracy and precision to be within laboratory acceptance criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

All surrogate recoveries are within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

None; target analytes were not detected in the trip blank sample submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

- ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pairs *A1-BOT15:4 / A1-BOT100:4* and *A1-SIDE2:3 / A1-SIDE100:3* were submitted with this work order.

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The relative precision demonstrated between the detected analytes in both field duplicate pairs was within the recommended DQO of 50%.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2109340

Laboratory Report Date:

September 29, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed/Validated by Michael Jaramillo

Title:

Senior Chemist

Date:

December 1, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

The COC was revised after the initial submittal to add benzene, toluene, ethylbenzene, and xylenes (BTEX) analytes to the SW8260D – volatile organic compound (VOC) analysis for the water samples 8801-Batch 1, 8801-Batch 2, and 8801-Batch 3. Samples were analyzed for the correct analytes and within method recognized hold time for the requested analysis. Sample results are not considered affected.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples were received in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were not discrepancies documented by the laboratory.

- e. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The matrix spike (MS) and matrix spike 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.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Samples A5-SIDE1:7, A5-SIDE2:7, A5-SIDE3:6, A5-SIDE4:6, A5-SIDE10:8, A5-SIDE11:7, A5-SIDE12:7, A5-SIDE13:7, A5-SIDE14:7, A5-SIDE15:6, A5-SIDE16:6, 8801-Batch 1, 8801-Batch 2, and 8801-Batch 3 required Florisil and acid cleanup procedures prior to polychlorinated biphenyl (PCB) analysis.

c. Were all corrective actions documented?

Yes No N/A Comments:

Samples noted above required cleanup procedures prior to PCB analysis.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability were not affected; see above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability are not affected; see above.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Lead was detected at a concentration greater than the laboratory RL in the method blank associated with preparation batch 33817. In addition, cadmium was detected at an estimated concentration (less than the RL but greater than the MDL) in the method blank associated with preparation batch 33817.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Sample *A5-SIDE12:3* had a detection less than ten times the method blank detection for cadmium. The sample result is considered estimated and flagged "JH" in the analytical database.

Sample *A5-SIDE13:7* had a detection less than ten times the method blank detection for lead. The sample result is considered estimated and flagged "JH" in the analytical database.

Remaining samples had detections greater than ten times the method blank detection for cadmium and lead. These sample results are not considered affected.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability was affected; see above.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCS and LCSD samples were reported for PCB analysis for water matrices.

LCS samples were reported for Oil & Grease analysis for water matrices and PCB analysis for soil matrices. We have no measure of laboratory precision for Oil & Grease analysis.

An LCS and laboratory duplicate were reported for VOC analysis for water matrices.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS sample was reported for metals analysis. Refer to Section 6.c for assessment of laboratory precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

One of the laboratory duplicate samples associated with the VOC preparation batch 33808 had an RPD failure for acetone. However, the parent sample is not associated with the project sample set. Sample results are not considered affected by the laboratory duplicate RPD failure.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Project samples are not considered affected; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS samples were reported for Oil & Grease, PCB, and VOC analyses for water matrices. We have no measure of laboratory precision for Oil & Grease analysis.

MS and MSD samples were reported for PCB analysis for soil matrices.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The metals MS and MSD associated with preparation batch 33817 had cadmium and/or lead recovery failures. Parent sample *A5-SIDE1:7* is associated with the project sample set. However, the native concentrations were greater than the spiking concentrations, leading to uncertainty in the recovery calculations. The MS and MSD recovery failures are not considered to be representative of method performance. Samples results are not affected.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The metals MS and MSD associated with preparation batch 33817 had an RPD failure for lead. Parent sample *A5-SIDE1:7* is associated with the project sample set. However, the native concentrations were greater than the spiking concentrations, leading to uncertainty in the recovery calculations. The MS/MSD RPD failure is not considered to be representative of method performance. Samples results are not affected.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Project samples are not considered affected; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

- ii. Submitted blind to lab?

Yes No N/A Comments:

Sample *A5-SIDE100:7* is a field duplicate of sample *A5-SIDE-14:7*.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

Field duplicate RPDs are within the recommended DQO of 50%, where calculable, except for lead. The lead results are considered estimated, no direction of bias, and are flagged “J” in the analytical tables.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability were affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2109371

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley / Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior Environmental Engineer

Date:

December 14, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability were not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

All field samples reported in this work order required the Acid and Florisil Cleanup Procedures prior to extraction for polychlorinated biphenyl (PCB) analysis.

c. Were all corrective actions documented?

Yes No N/A Comments:

No corrective actions were documented in the case narrative other than the cleanup procedures detailed above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not imply that the data are affected. See section 6 for further assessment.

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

PCBs were not detected in several field samples and reported at a limit of detection (LOD) for total PCBs which is greater than the associated regulatory limit.

e. Data quality or usability affected?

We cannot assess if the analytes listed in section 5.d are present in the samples at concentrations less than the RL but greater than the regulatory limits.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability were not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for PCB analysis. Refer to Section 6.c for assessment of laboratory precision.

A LCS and laboratory duplicate samples were reported for gasoline analysis. Refer to Section 6.c for assessment of laboratory precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCSs were reported for copper analysis in conjunction with preparation batches 33833, 33834, and 33874. Refer to Section 6.c for assessment of laboratory precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

The Method NWTPH-Gx laboratory duplicate sample reported with preparation batch 33832 exhibited a precision failure for gasoline range organics (GRO).

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The field sample results are not affected. GRO is not a target analyte for this project. The RPD for gasoline was within acceptance criteria.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected.

- c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis

A MS sample was reported for gasoline analysis. Refer to Section 6.b for assessment of laboratory precision.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for copper analysis.

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The percent recovery for gasoline was below the lower control limit in the MS extracted from parent sample *A3-SIDE1:5*. However, the gasoline spike added to the matrix was grossly low relative to the native concentration in the parent sample. This discrepancy may introduce significant uncertainty to the recovery calculations. The recovery may not be representative of actual method performance. No qualification is required.

The percent recovery for copper was above the upper control limit in the MSD extracted from the parent sample *A3-SIDE12:2:5*. However, the copper spike added to the matrix was low relative to the native concentration in the parent sample. This discrepancy may introduce significant uncertainty to the recovery calculations. The recovery may not be representative of actual method performance. No qualification is required.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Unless otherwise noted, MS/MSD samples had accuracy and precision within laboratory acceptance criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification is not required. The MS and MSD samples exhibiting recovery failures were spiked with concentrations of target analytes that were insufficient to quantify against the background concentrations. The recovery calculations may not be representative of actual method performance.

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

The PCB surrogate recoveries were above laboratory control limits in project samples *A3-SIDE12:5*, *A3-BOT13:6*, *A3-BOT14:6*, and *A3-BOT15:6*. However, no PCB Aroclors were detected in these samples. The non-detect results are not affected by the potentially elevated method recovery.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Data qualification was not required; see above.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

v. Data quality or usability affected?

Comments:

We cannot assess whether sample cross-contamination or ambient conditions contributed analytes to the gasoline results of the field samples.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Samples for this project were not collected with reusable equipment. An equipment blank is not required because there is no practical potential for cross-contamination to occur.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109394

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 8, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample temperature was recorded at 15.6° C. However, the samples were collected within one hour of delivery. The sample did not have sufficient time to cool prior to delivery but was properly preserved by the laboratory upon receipt.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the sample arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The sample being submitted to the laboratory at ambient temperature will not affect data quality due to the quick delivery time. Additionally, copper is typically stable within the matrix and unlikely to be affected by temperature.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The data quality/usability is not affected.

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

Soil samples are not submitted with this work order.

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

None; copper was not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Organic analyses were not requested on this work order.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

However, there was a laboratory duplicate RPD failure. The laboratory duplicate sample was not a project sample. Furthermore, the parent sample result reported above the detection limit and below the LOQ (laboratory applied J-flag) and the duplicate sample result was not detected therefore an RPD could not be calculated. Refer to Section 6.c for assessment of laboratory precision.

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The laboratory duplicate sample was not a project sample; therefore, data quality/usability were not affected; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Organic analyses were not requested on this work order.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

Surrogates or IDA are not used for metals analysis.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

Surrogates are not reported for inorganic analyses.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogates are not reported for inorganic analyses.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested on this work order.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate sample was not submitted with this work order.

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2109439

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 8, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory report was revised to include the level 2b data.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability were not affected; see above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

None; target analytes were not detected in the method blank sample.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for this sample batch. See 5.c for MS/MSD results.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/inorganic analyses were not requested for this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

An LCSD was not reported for this work order. See section 5.c.iv for assessment of method precision.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/inorganic analyses were not requested for this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenzo(a,h)anthracene exhibited low recoveries in the Method 8270-SIM MS and/or MSD samples reported with batch 33857.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The relative precision demonstrated between the Method 8270-SIM MS and MSD recoveries for the analytes benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene did not meet acceptance criteria.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The Method 8270-SIM MS and MSD samples reported in batch 33857 were spiked from the field sample *A2-SIDE11:2*. However, the analyte spiking concentrations added to the matrix were grossly low compared to the native concentrations in the parent sample. The resulting uncertainty may render the recovery calculations unrepresentative of actual method performance.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required. The MS/MSD spikes were insufficient to be properly quantified.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested for these samples. A trip blank was not required.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Reusable equipment was not utilized during sample collection. An equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2109457

Laboratory Report Date:

September 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Tiffany Green/ Validated by Adam Wyborny

Title:

Environmental Scientist

Date:

November 8, 2021

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were not discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Sample *A3-SIDE17:2* required acid cleanup procedure via Method No. 3665A prior to extraction and analysis for polychlorinated biphenyls (PCBs).

Sample *A3-SIDE17:2* required florisil cleanup procedure via Method No. 3620C prior to extraction and analysis for PCBs.

The laboratory report was revised to include sample ID corrections requested by the client.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions documented in the case narrative involve running cleanup methods on sample *A3-SIDE17:2* prior to extraction; see above.

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

Data quality and usability were not affected; see above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

However, copper was detected at an estimated concentration below the RL.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

All project samples reported in this work order contained concentrations of copper greater than ten times that of the method blank detection. The sample results are therefore not meaningfully affected by laboratory contamination.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB and gasoline analyses.

A laboratory duplicate samples were reported for gasoline analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS sample was reported for copper analysis. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

A LCSD was not reported for this work order. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The data quality/usability were not affected; see above.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD sample was reported for PCB analysis.

An MS sample was reported for gasoline analysis. Refer to Section 6.b for assessment of laboratory precision.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for copper analysis.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

MS/MSD samples had accuracy and precision within laboratory acceptance criteria.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the trip blank.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pair *A3-SIDE18:2 / A3-SIDE100:2* was submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

Field duplicate RPD is within acceptable limits.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2109493

Laboratory Report Date:

October 4, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 3, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

Project Number

103485-008

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The temperature of the sample cooler was measured at 2.1° C upon receipt at the laboratory.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates that the samples arrived in good condition and properly preserved.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The samples *A5-SIDE5:6*, *A5-SIDE6:6*, *A5-SIDE7:6*, *A5-SIDE8:6*, *A5-SIDE9:7*, and *A3-BOT27:6* required the acid and florisol cleanup procedures prior to polychlorinated biphenyls (PCB) analysis by method SW8082.

c. Were all corrective actions documented?

Yes No N/A Comments:

The report was revised to include the level 2B data validation package was well as corrected qualifiers for arsenic data on samples *A5-SIDE6:2*, *A5-SIDE101:2*, and *A5-SIDE6:6*.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality.

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

When no Aroclors were detected, total PCBs were reported at RLs which were greater than the associated PCUL. However, this sensitivity failure was noted in the sampling and analysis plan.

e. Data quality or usability affected?

We cannot assess whether PCBs are present in the non-detect samples at concentrations greater than the PCUL but below the laboratory's RL.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Arsenic and cadmium were detected at estimated concentrations in the SW6020B method blank sample reported with batch 33895.

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

All samples with reported arsenic and/or cadmium results contained these metals at concentrations greater than 10X those of the concentrations detected in the method blank. The sample results are not meaningfully affected.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis by method SW8082 in conjunction with batch 33899. See MS/MSD discussion for assessment of method precision.

A LCS and LCSD were reported for PCB analysis by method SW8082 in conjunction with batch 33916.

An LCS and laboratory duplicate samples were reported for gasoline by method NWTPH-Gx.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for metals analysis by method SW6020B. See MS/MSD discussion for assessment of method precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

LCS/LCSD and laboratory duplicate samples demonstrated method accuracy and precision within laboratory acceptance criteria.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for PCB analysis by method SW8082.

An MS was reported for gasoline analysis by NWTPH-Gx.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for total metals analysis by method SW6020B.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Percent recovery for gasoline in the method NWTPH-Gx MS sample extracted from parent sample *A3-SIDE7:5* was above the upper control limit.

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The parent sample *A3-SIDE7:5* from which the MS was spiked did not contain a detectable concentration of gasoline. The non-detect result is therefore unaffected by the elevated recovery.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Data qualification was not required; see above.

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

Trip blank was analyzed for gasoline by NWT PH-Gx.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; gasoline was not detected in the trip blank.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pairs *A3-SIDE4:5* / *A3-SIDE101:5* and *A5-SIDE6:2* / *A5-SIDE101:2* were submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The field duplicate samples *A3-SIDE4:5* and *A3-SIDE101:5* exhibited precision failures for gasoline and copper. These results are considered estimated in the field duplicate samples and flagged J* to identify the imprecision.

The relative precision demonstrated between the detected results of field duplicate samples *A5-SIDE6:2* and *A5-SIDE101:2* was within the DQO of 50% for all analytes.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality is affected; see above for applied qualifiers.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

2109508

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

The laboratory assigned the Q-flag to the arsenic results associated with the continuing calibration verification (CCV) samples reported in batch 33895. Arsenic exhibited elevated recovery in this CCV so the laboratory notes that the associated results may have a high analytical bias. Affected samples include *A5-SIDE5:6*, *A5-SIDE6:2*, *A5-SIDE101:2*, and *A5-SIDE6:6*.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 3, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

Project Number

103485-008

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample was at 18.5°C upon delivery to the laboratory. The sample receipt form notes that no attempt was made to chill the samples. This was because the samples were delivered to the laboratory within an hour of collection.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The laboratory sample receipt form states that samples were properly preserved.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The samples arrived in good condition and unbroken.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected. The temperature exceedance does not affect the data quality because the samples were delivered to the laboratory at ambient temperature within an hour of collection.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies, errors, or QC failures listed in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not needed.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not note an effect on data quality/usability.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target volatile organic compounds (VOCs) were not detected in the method blank sample.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested for this sample.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A MS sample was reported for VOC analysis by method 8260D. Refer to section 6.b.iv for assessment of method precision.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested for this sample.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

A MSD sample was not reported for this batch. Refer to section 6.b.iv for assessment of method precision.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability were not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

There are no surrogate recovery failures associated with the reported samples.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

The trip blank sample *TRIP-20211001* was submitted with this work order.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

No samples are affected. Target VOCs were not detected in the trip blank sample.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate sample was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate sample was not submitted with this work order.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate sample was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Only one sample was submitted with this work order. Therefore, cross-contamination via sampling equipment is not applicable.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank sample was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110033

Laboratory Report Date:

October 05, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 4, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

Project Number

103485-008

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Sample/cooler temperature was at 3.9°C upon receipt at the laboratory.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates that the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No discrepancies noted in the sample receipt documentation.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The polychlorinated biphenyl (PCB) analyses of all the included field samples required the Acid Cleanup Procedure using Method 3665A and the Florisil Cleanup Procedure using Method 3620C.

c. Were all corrective actions documented?

Yes No N/A Comments:

The field samples were processed via the Acid and Florisil Cleanup Procedures prior to PCB analysis by EPA Method 8082.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not imply an effect on the data quality.

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis via method 8082. See MS/MSD discussion for assessment of method precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis via method 6020B. See MS/MSD discussion for assessment of method precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for the requested methods. See section 6.c.iv for assessment of method precision.

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis via method 8082.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for copper analysis via method 6020B.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recovery of copper was below the lower control limit in the MS and MSD samples reported with batch 33962.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS and MSD samples reported with batch 33962 were spiked from the field sample *A4-SIDE13:2*. However, the copper spike added to the matrix was low relative to the native concentration in the parent sample. The resulting uncertainty may render the recovery unrepresentative of actual method performance. The matrix effect on method recovery is therefore unquantifiable.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The sample results are considered unaffected; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

There were no surrogate recovery failures associated with the reported samples.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

PCBs and copper are not volatile compounds. Therefore, a trip blank was not required.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not required for these samples.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110054

Laboratory Report Date:

October 11, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 5, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

The sample dates were omitted from page 5 of the CoC. However, all samples were collected and submitted on 10/5/2021.

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Sample/cooler temperature was measured at 4.7°C upon receipt at the laboratory.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates that the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No discrepancies were noted by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies, errors, or QC failures were documented in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Arsenic was detected at an estimated concentration of 0.0518J mg/kg in the SW6020B method blank sample reported for batch 33963.

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

All samples with reported arsenic results contained arsenic concentrations greater than 10X that of the concentration detected in the method blank.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The sample results were not meaningfully affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for polynuclear aromatic hydrocarbons (PAH) analysis by method SW8270-SIM, polychlorinated biphenyls (PCB) analysis by method SW8082, and gasoline analysis by method NWTPH-Gx.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for copper analysis by method 6020B in conjunction with batch 33962.

A LCS was reported for copper and arsenic analyses by method 6020B in conjunction with batch 33963.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for the requested methods. See MS/MSD discussion for assessment of method precision.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A; method accuracy was demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A MS sample was reported for PAH analysis by method SW8270-SIM. No measure of method precision was provided.

MS and MSD samples were reported for PCB analysis by method SW8082.

A MS sample and laboratory duplicate samples were reported for gasoline analysis by method NWTPH-Gx.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for copper analysis by method 6020B in conjunction with batch 33962.

MS and MSD samples were reported for copper and arsenic analyses by method 6020B in conjunction with batch 33963.

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recovery of copper was below the lower control limit in the MS and MSD samples reported with batch 33962.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The NWTPH-Gx laboratory duplicate sample reported for batch 33960 exhibited a precision failure for gasoline.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS and MSD samples reported with batch 33962 were spiked from the field sample *A4-SIDE13:2*, which is not included in this work order. However, the copper spike added to the matrix was low relative to the native concentration in the parent sample. The resulting uncertainty may render the recovery unrepresentative of actual method performance. The matrix effect on method recovery is therefore unquantifiable.

The NWTPH-Gx laboratory duplicate sample reported for batch 33960 was analyzed from the field sample *A7-SIDE1:7*. The gasoline result of this sample may lack precision.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The gasoline result of sample *A7-SIDE1:7* may be affected by poor method precision. This result is considered estimated and flagged J* for reporting purposes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality is affected; see above for applied qualifiers.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

The PCB surrogate tetrachloro-m-xylene exhibited elevated recovery for the project sample *A4-SIDE17:6*.

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Sample *A4-SIDE17:6* did not contain detectable concentrations of the target PCB Aroclors. The non-detect results are therefore unaffected by the potential for elevated method recovery.

- iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The trip blank sample *TRIP-10052021* was submitted with this work order.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

No samples are affected; gasoline was not detected in the trip blank.

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A

Comments:

ii. Submitted blind to lab?

Yes No N/A

Comments:

The field duplicate pairs *A4-SIDE17:2 / A4-SIDE101:2*, *A6-SIDE3:5 / A6-SIDE100:5*, *A7-SIDE2:7 / A7-SIDE100:7*, and *A8-SIDE3:3 / A8-SIDE100:3* were submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No N/A

Comments:

The relative precision demonstrated between the detected results of the field duplicate samples was within the recommended DQO of 50% for all analytes, where calculable. We note that gasoline range organics (GRO) were reported for sample *A8-SIDE3:3* but not its field duplicate *A8-SIDE100:3*.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A

Comments:

Equipment blank samples were not submitted with this work order.

2110067

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 6, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

Project Number

103485-008

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Sample/cooler temperature was at 7.9°C upon receipt at the laboratory. However, the sample was delivered to the laboratory within two hours of collection.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

Samples were in good condition and were unbroken.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the sample receipt documentation.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected by the minor temperature exceedance because the sample was delivered to the laboratory within two hours of collection.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The polychlorinated biphenyls (PCB) analysis of the field sample *MONTHLY-20211008* required the Acid Cleanup Procedure using Method 3665A and the Florisil Cleanup Procedure using Method 3620C.

c. Were all corrective actions documented?

Yes No N/A Comments:

The field sample *MONTHLY-20211008* was processed via the Acid and Florisil Cleanup Procedures prior to PCB analysis by EPA Method 8082.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

Only water samples were submitted with this work order.

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

One or more volatile organic compounds (VOCs) were not detected and reported at detection limits which were greater than their associated project action limits. However, these compounds were identified in the approved sampling and analysis plan.

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

No samples are affected; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for Hexane Extractable Materials (HEM) by method 1664A, low level PCB analysis by method SW8082, and VOC analysis by method SW8260D.

A LCS and LCSD were reported for PCB analysis by method SW8082.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested for this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Dichlorodifluoromethane (CFC-12) was recovered below the lower limit in the LCS reported for batch 33992.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

No measure of method precision was provided by the laboratory for HEM, low level PCBs, or VOCs.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The dichlorodifluoromethane result of sample *MONTHLY-20211008* may be affected by low method recovery as identified in the associated LCS.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The non-detect dichlorodifluoromethane result of sample *MONTHLY-20211008* is considered estimated and flagged J* for reporting purposes.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality is affected; see above for applied qualifiers.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A MS sample was reported for Hexane Extractable Materials (HEM) by method 1664A, and PCB analysis by method SW8082. No measure of method precision was provided.

A MS sample and laboratory duplicate sample were reported for VOC analysis by method SW8260D.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested for this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The SW8260D laboratory duplicate sample reported for batch 33992 exhibited a method precision failure for vinyl chloride.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The SW8260D laboratory duplicate sample reported for batch 33992 was analyzed from a field sample that is not included with this work order. Potential matrix effects on method precision are not applicable to the reported samples.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

There are no surrogate recovery failures for the reported samples.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was listed on the CoC but not reported by the laboratory.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

The trip blank results were not provided by the laboratory.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

- v. Data quality or usability affected?

Comments:

We cannot assess whether there were external analyte contributions to the sample results from the ambient sampling conditions or during transportation.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

- ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Only one sample was submitted with this work order. Therefore, cross-contamination via sampling equipment is not applicable.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank sample was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110139

Laboratory Report Date:

October 12, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Mason Craker / Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 10, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

Project Number

103485-008

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample/cooler temperature was measured at 3.9°C upon receipt at the laboratory.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The samples arrived in good condition and were unbroken.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the sample receipt documentation.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There are no discrepancies, errors, or QC failures noted in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

The report was revised to include a correction to the sample ID of *A6-SIDE5:2*.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not imply that data quality/usability is affected.

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Polychlorinated biphenyls (PCBs), Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were not detected and reported at detection limits which were greater than their associated project action limits. However, these compounds were identified in the approved sampling and analysis plan.

e. Data quality or usability affected?

The data quality/usability is not affected. Non-detect results lacking sufficient analytical sensitivity are identified in the summary tables.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

No samples are affected; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for polyaromatic hydrocarbons (PAH) analysis by EPA Method 8270-SIM.

LCSs were reported for PCB analysis by method SW8082.

A LCS and laboratory duplicate samples were reported for gasoline analysis by NWTPH-Gx.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for total metals analysis by EPA Method 6020B.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

No LCSD's were provided. See section 6.c.iv for assessment of method precision.

A NWTPH-Gx duplicate sample was provided for gasoline analysis. The relative precision demonstrated for gasoline did not meet acceptance criteria.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The duplicate sample was analyzed from the field sample *A3-SIDE28:3*. Gasoline was not detected in the field sample. The non-detect result may lack precision.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The non-detect gasoline result of sample *A3-SIDE28:3* is considered estimated and flagged 'UJ' for reporting purposes.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality is affected; see above for applied qualifiers.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PAH analysis by EPA method 8270-SIM and PCB analysis by method EPA 8082.

A MS sample was reported for gasoline analysis by method NWTPH-Gx.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for total metals analysis by EPA Method 6020B.

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recoveries of all reported PAH analytes were outside of laboratory control limits in the SW8270-SIM MS and MSD samples reported with batch 34065.

The NWTPH-Gx MS sample reported with batch 34069 exhibited low recovery for gasoline.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The relative precision demonstrated between the PAH recoveries of the MS and MSD samples reported with batch 34065 did not meet acceptance criteria.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS and MSD samples reported with batch 34065 were spiked from the field sample *A2-SIDE9:3*. With the exception of dibenzo(a,h)anthracene, the PAH spiking concentrations were grossly low compared to the native analyte concentrations in the parent sample. The resulting uncertainty may render the MS/MSD results unrepresentative of actual method performance. However, the dibenzo(a,h)anthracene result of the parent sample may be affected by elevated method recovery.

The NWTPH-Gx MS sample reported with batch 34069 was spiked from a field sample that is not included with this work order. Potential matrix impacts on method performance are not applicable to the samples in this batch.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The dibenzo(a,h)anthracene result of sample *A2-SIDE9:3* is considered estimated with a high analytical bias and is flagged 'JH' for reporting purposes.

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Data quality is affected, see above for applied qualifiers.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

There were no surrogate recovery failures for the reported samples.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; gasoline was not detected in the trip blank sample.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pairs *A3-SIDE28:3 / A3-SIDE101:3* and *A2-SIDE9:3 / A2-SIDE101:3* were submitted with this work order.

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The relative precision demonstrated between the detected results of the field duplicate samples *A3-SIDE28:3* and *A3-SIDE101:3* was within the DQO of 50% for all analytes except copper. The copper results of these field duplicate samples are considered estimated and flagged J to identify the imprecision.

The relative precision demonstrated between the detected results of the field duplicate samples *A2-SIDE9:3* and *A2-SIDE101:3* failed to meet acceptance criteria for all detected PAH analytes. The PAH results of these field duplicate samples are considered estimated and flagged J to identify the imprecision.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality is affected; see above for applied qualifiers.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Sampling was done with one time use equipment.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank sample was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

2110219

Laboratory Report Date:

October 19, 2021

Report Name:

8801 - Excavations

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley/ Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior Environmental Engineer

Date:

January 10, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Sample *A3-BOT36:4* required the acid cleanup procedure via Method No. 3665A prior to extraction and analysis for polychlorinated biphenyls (PCBs).

Sample *A3-BOT36:4* required the florisil cleanup procedure via Method No. 3620C prior to extraction and analysis for PCBs.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions documented in the case narrative involve running cleanup methods on sample *A3-BOT36:4* prior to extraction; see above.

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Total PCBs were not detected in several samples and reported at RLs which were greater than the associated regulatory limit. However, this analyte was identified in the sampling and analysis plan.

e. Data quality or usability affected?

We cannot assess whether PCBs are present at concentrations below the laboratory's RL but greater than the associated regulatory limit.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB and gasoline analyses. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

A laboratory duplicate sample was reported for gasoline analysis. Refer to Section 6.c for assessment of method accuracy using the MS samples.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

A LCSD was not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The data quality/usability were not affected; see above.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD sample was reported for PCB analysis.

An MS sample was reported for gasoline analysis. Refer to Section 6.b for assessment of method precision.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for copper analysis.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS/MSD samples demonstrated accuracy and precision within laboratory acceptance criteria.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the trip blank.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not required for this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110251

Laboratory Report Date:

October 21, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley / Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior environmental Engineer

Date:

January 10, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

Project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Samples *A4-SIDE25:2, A4-SIDE25:6, A4-SIDE26:2, A4-SIDE26:6, A4-SIDE27:2, A4-SIDE27:6, A4-SIDE28:2, A4-SIDE28:6, A4-SIDE102:6, and A3-SIDE38:2.5* required the acid cleanup procedure via Method No. 3665A prior to extraction and analysis for polychlorinated biphenyls (PCBs).

Samples *A4-SIDE25:2, A4-SIDE25:6, A4-SIDE26:2, A4-SIDE26:6, A4-SIDE27:2, A4-SIDE27:6, A4-SIDE28:2, A4-SIDE28:6, A4-SIDE102:6, and A3-SIDE38:2.5* required the florasil cleanup procedure via Method No. 3620C prior to extraction and analysis for PCBs.

The laboratory report was revised to include sample ID corrections requested by the client.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions documented in the case narrative involve running cleanup methods on samples *A4-SIDE25:2*, *A4-SIDE25:6*, *A4-SIDE26:2*, *A4-SIDE26:6*, *A4-SIDE27:2*, *A4-SIDE27:6*, *A4-SIDE28:2*, *A4-SIDE28:6*, *A4-SIDE102:6*, and *A3-SIDE38:2.5* prior to extraction; see above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for PAH, PCB, and gasoline analyses. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

A laboratory duplicate sample was reported for gasoline analysis.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for this work order. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The data quality/usability is not affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD sample was reported for PAH and PCB analysis.

An MS sample and duplicate were reported for gasoline analysis. Refer to Section 6.b for assessment of laboratory precision.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for copper analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The MS and MSD recovery for copper was outside of laboratory limits; however, a post digestion spike sample was performed in response.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The RPD for benzo(k)fluoranthene was above laboratory limits in the MS/MSD samples reported with batch 34123.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The copper MS/MSD samples were spiked from the field sample *A4-SIDE25:6*. However, the copper spiking concentration was grossly low compared to the native concentration in the parent sample. For this reason, the spike was not quantifiable and a post-digestion spike was analyzed in response. The post-digestion spike demonstrated slightly low recovery.

The PAH MS/MSD samples were performed on the field sample *A2-SIDE16:2*. The high RPD for benzo(k)fluoranthene is reportedly due to matrix interference. The parent sample result may also lack precision.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The copper result of sample *A4-SIDE25:6* may be affected by low method recovery as identified in the post-digestion spike sample. This result is flagged 'JL' for reporting purposes.

The benzo(k)fluoranthene result in the parent sample, project sample *A2-SIDE16:2*, is considered estimated and has been flagged 'J' in the analytical table.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality is affected; see above for applied qualifiers.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the trip blank.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

- ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pair *A4-SIDE28:6 / A4-SIDE102:6* was submitted with this work order.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

2110287

Laboratory Report Date:

October 25, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley / Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior Environmental Engineer

Date:

January 11, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Project sample *A3-BOT39:5.5* was above the required temperature range at 9.9°C, however the sample was delivered to the laboratory within two hours of collection. There was insufficient time to chill the sample before delivery. The laboratory chilled the sample upon receipt. The results are considered unaffected.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

Sample temperature was outside of requirements; however, results were unaffected. See section 3.a for details.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Samples *A3-BOT39: 5.5* and *A3-BOT40: 5* required the acid cleanup procedure via Method No. 3665A prior to extraction and analysis for polychlorinated biphenyls (PCBs).

Samples *A3-BOT39: 5.5* and *A3-BOT40: 5* required the florisol cleanup procedure via Method No. 3620C prior to extraction and analysis for PCBs.

The laboratory report was revised to include sample ID corrections requested by the client.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions documented in the case narrative involve running cleanup methods on samples A3-BOT39: 5.5 and A3-BOT40: 5 prior to extraction; see above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for PAH and gasoline analyses. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

An LCS/LCSD was reported for PCB analyses,

Laboratory duplicate samples were reported for gasoline analysis.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for copper analysis. Refer to Section 6.c for assessment of laboratory precision using MS/MSD samples.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and, where applicable, precision were demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD sample was reported for PAH and PCB analysis.

An MS sample and two laboratory duplicates were reported for gasoline analysis. Refer to Section 6.b for assessment of laboratory precision.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for copper analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and, where applicable, precision were demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the trip blank.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

2110360

Laboratory Report Date:

October 27, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability were not affected; see above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley / Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior Environmental Engineer

Date:

January 11, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

Changes in turn-around-times for various samples were requested and noted on the COCs.

- b. Correct analyses requested?

Yes No N/A Comments:

Many samples were marked for on-hold copper analysis. The COC was amended following correspondence with the project manager and several copper analyses were authorized.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Chemical preservation is not required for metals or polychlorinated biphenyls (PCB) analyses.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

Data quality or usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The laboratory noted that the following samples required the Acid and Florisil Cleanup Procedures via methods 3665A and 3620C prior to running the PCB analyses: A4-SIDE30:6, A4-SIDE32:8, A4-SIDE36:2, 37:8, A4-SIDE39:2, A4-SIDE39:6, A4-SIDE41:2, A4-SIDE42:2, A4-SIDE44:1, and A4-SIDE47:2.

Revisions 1 through 3 include authorization of the copper analyses requested with varying turn-around-times. A 4th revision was produced to include the missing level 2B batch QC results.

c. Were all corrective actions documented?

Yes No N/A Comments:

No corrective actions were documented in the case narrative besides the implementation of the Acid and Florisil Cleanup Methods.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

One or more samples did not contain detectable concentrations of PCB Aroclors. Total PCBs were reported at limits which were greater than the associated project action level. However, PCBs were identified in the sampling and analysis plan (SAP) as lacking sufficient analytical sensitivity.

e. Data quality or usability affected?

We cannot assess whether PCBs are present at concentrations below the RLs but greater than the associated project action limits. Non-detect result lacking sufficient sensitivity are bolded in the summary tables.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

No samples are affected; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis in each preparation batch. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis in each preparation batch. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The samples are not affected by method recovery failures.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for copper analysis.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Copper recoveries in the MS/MSD samples associated with preparation batches 34240, 34528, and 34561 were outside of QC limits. This is due to excessively high native concentrations of copper in the parent samples in relation to the spikes added. The data is not considered affected, and qualification is not required.

The PCB Aroclor 1016 exhibited elevated recovery in the MS/MSD samples associated with preparation batch 34298. However, the parent sample for this MS was not part of the project set; therefore, potential matrix effects on method recovery are not applicable to the reported samples.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The RPDs for copper were outside of QC limits for the MS/MSD samples reported with preparation batches 34528 and 34561. However, the copper spike recoveries were not quantifiable due to the high native concentrations of copper in the parent samples.

The RPD for the PCB Aroclor 1260 was outside QC limits for preparation batch 34298. However, the parent sample for this MS was not part of the project set; therefore, potential matrix effects on method precision are not applicable to the reported samples.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Project samples remain unaffected; see above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The results do not require qualification; see above.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

All surrogate recoveries are within laboratory control limits.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

Volatile analyses were not requested for this work order. A trip blank was not required.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

A trip blank sample was not submitted with this work order.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

A trip blank sample was not submitted with this work order.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

The field duplicate pairs *A4-SIDE34:2 / A4-SIDE103:2* and *A4-SIDE46:2 / A4-SIDE104:2* were submitted with this work order.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

- iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The RPD for copper in field duplicate pair *A4-SIDE34:2 / A4-SIDE103:2* was outside QC limits. The copper results of these samples are considered and have been flagged 'J' in the analytical tables to denote the uncertainty.

The RPD for the PCB Aroclor 1254 in field duplicate pair *A4-SIDE46:2 / A4-SIDE104:2* was outside QC limits. The Aroclor 1254 and total PCBs results of these samples are considered estimated and have been flagged 'J' in the analytical tables to denote the uncertainty.

- iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality is affected; see above for applied qualifiers.

- g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

The samples were not collected with reusable equipment. An equipment blank was not required.

- i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

- ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

- iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2110520

Laboratory Report Date:

December 23, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

The laboratory assigned the E-flag to copper results that exceeded the instrument's calibration range.

The continuing calibration verification (CCV) reported for batches 34223 and 34561 exhibited elevated recovery for copper. The associated LCSs demonstrated passing recovery.

The CCV reported for batch 34298 exhibited elevated recovery for the PCB Aroclor 1260. The associated LCSs exhibited passing recovery.

Laboratory Data Review Checklist

Completed By:

Reviewed by Justin Risley/ Validated by Adam Wyborny, PE

Title:

Engineering Staff / Senior Environmental Engineer

Date:

January 11, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies documented by the laboratory.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Samples *A5-SIDE18:7* (Lab ID 2111114-002), *A3:BOT40:6.5*, and *A5-SIDE19:6* required the acid cleanup procedure via Method No. 3665A prior to extraction and analysis for polychlorinated biphenyls (PCBs).

Sample *A5-SIDE18:7* (Lab ID 2111114-002), *A3:BOT40:6.5*, and *A5-SIDE19:6* required the florisil cleanup procedure via Method No. 3620C prior to extraction and analysis for PCBs.

c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions documented in the case narrative involve running cleanup methods on sample *A5-SIDE18:7* (Lab ID 2111114-002), *A3:BOT40:6.5*, and *A5-SIDE19:6* prior to extraction; see above.

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

One or more samples did not contain detectable concentrations of PCBs. The total PCB concentrations for non-detect results were reported at RLs which were greater than the associated regulatory limit. However, these analytes were identified in the sampling and analysis plan.

e. Data quality or usability affected?

We cannot assess whether the samples lacking detectable concentrations of PCBs contained these compounds at concentrations below the RL but above the regulatory limit.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB and gasoline analyses. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

Laboratory duplicate samples were reported for gasoline analysis. Refer to Section 6.c for assessment of method accuracy using the MS samples.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for metal analyses. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

LCSDs were not reported for this work order. Refer to Section 6.c for assessment of method precision using the MS/MSD samples.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The data quality/usability were not affected; see above.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD sample was reported for PCB analysis.

An MS sample was reported for gasoline analysis. Refer to Section 6.b for assessment of method precision.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD samples were reported for metal analyses.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Percent recovery in the MS for Chromium was above laboratory limits. The parent sample was not a part of the project set; therefore, no qualification is required.

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The MS/MSD samples demonstrated precision within laboratory acceptance criteria. The recovery failure for chromium is not applicable to the samples reported in this work order.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory acceptance criteria.

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

iv. If above RL or project specified objectives, what samples are affected?

Comments:

Target analytes were not detected in the trip blank.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank samples were not required for this work order.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

Equipment blank samples were not submitted with this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; an equipment blank was not submitted for this work order.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2111114

Laboratory Report Date:

November 12, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags and qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Veselina Yakimova / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 18, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The project sample *UST-Contents* was recorded above the required temperature range at 12.3°C; however, the sample was delivered to the laboratory within two hours of collection. There was insufficient time to chill the sample before delivery. The laboratory chilled the sample upon receipt. The results are considered unaffected.

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

Sample temperature was outside of requirements; however, results were unaffected. See section 3.a for details.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies noted by the laboratory in the case narrative.

- c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

Soil samples were not submitted with this work order.

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS and laboratory duplicate samples were reported for BTEX and gasoline analyses.

An LCS/LCSD was reported for total petroleum hydrocarbons (TPH) and diesel fuel analyses.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and laboratory duplicate samples were reported for BTEX and gasoline analyses. Refer to Section 6.b for assessment of laboratory precision.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals/Inorganics analyses were not requested with this work order.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

MSD samples were not reported for this batch. Refer to Section 6.b for assessment of method precision.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

All surrogate recoveries are within laboratory acceptance criteria.

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A

Comments:

A trip blank sample was not included with this work order. Only one sample was submitted so sample cross-contamination is not applicable. However, we cannot assess if there were external analyte contributions during transportation.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A

Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A

Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

No trip blank sample was submitted.

v. Data quality or usability affected?

Comments:

We cannot assess the effect on the data quality/usability. However, given the small turnaround time between collection of the sample and delivery to the laboratory, we believe it is unlikely that the sample was exposed to significant external contamination sources.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A

Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2111458

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags/qualifiers are not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Veselina Yakimova / Validated by Adam Wyborny, PE

Title:

Geology Staff / Senior Environmental Engineer

Date:

January 18, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

Project Number

103485-009

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

Copper and nickel were added to the list of metals requested after delivery to the laboratory.

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Project sample *UST_Contents_2* was recorded above the required temperature range at 12.3°C; however, the sample was delivered to the laboratory on the same day as collection. Additionally, only metals analyses were requested. Metals are stable within the matrix and are unlikely to be affected by ambient temperature. The results are considered unaffected.

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The sample temperature was outside of the required range; however, results were unaffected. See section 3.a for details.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the case narrative.

- c. Were all corrective actions documented?

Yes No N/A Comments:

Corrective actions were not required.

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

Soil samples were not submitted with this work order.

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target metals were not detected in the method blank sample.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

No organics analyses were requested with this work order.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS and a laboratory duplicate sample were reported for total metals and mercury analyses.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision were demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

No organics analyses were requested with this work order.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for mercury analysis.

An MS sample and one laboratory duplicate were reported for total metals analysis. Refer to Section 6.b for assessment of laboratory precision.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and, where applicable, precision were demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

- i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

No organics analysis was requested with this work order.

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See above.

- iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See above.

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order. However, field duplicates were submitted at the required frequency of the overall project.

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

ii. Submitted blind to lab?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2111483

Laboratory Report Date:

November 30, 2021

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

The result for barium of sample *UST_Contents_2* was flagged by the laboratory due to the continuing calibration verification (CCV) exhibiting elevated recovery. However, there were no discrepancies in the QC samples associated with this CCV and we do not consider the result affected.

Laboratory Data Review Checklist

Completed By:

Reviewed by Dana Fjare / Validated by Adam Wyborny, P.E.

Title:

Environmental Scientist / Senior Environmental Engineer

Date:

March 17, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

Project Number

103485-009

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

Page 3 of the CoC was scanned in the wrong orientation and the right and left edges of the page have been cut off. The sample names in particular are illegible.

- b. Correct analyses requested?

Yes No N/A Comments:

Many samples were marked as on-hold for certain analyses. The CoC was later annotated with the final determinations for which analyses to run and on what turnaround times.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples did not require chemical preservation.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory did not document any sample handling discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The Acid Cleanup and Fluorosil Cleanup Procedures were required prior to running the polychlorinated biphenyls (PCB) analyses for project samples *A4-SIDE48:4.5, A4-SIDE49:4.5, A4-SIDE50:2, A4-SIDE200:2, A4-SIDE50:5, A4-SIDE51:2, A4-SIDE52:2, A4-SIDE52:5, A4-SIDE52:8, A4-SIDE52:9, A4-SIDE52:10, A4-SIDE55:2, A4-SIDE55:6.5, A4-SIDE56:2, A4-SIDE56:5, A4-SIDE57:9, A4-SIDE57:10, A4-SIDE57:11, A4-SIDE57:12, A4-SIDE58:2, A4-SIDE201:2, A4-SIDE58:6, A4-SIDE59:2, A4-SIDE59:6, A4-SIDE59:8, A4-SIDE59:9, A4-SIDE59:10, A4-SIDE59:11, A4-SIDE59:12, A4-SIDE59:13, A4-SIDE59:14, A4-SIDE59:15, A4-SIDE60:10, A4-SIDE60:11, A4-SIDE60:11.5, A4-SIDE60:13, A4-SIDE60:14, A4-SIDE60:15, 14-SIDE61:2, A4-SIDE61:5.5, A4-SIDE61:8, A4-SIDE61:10, A4-SIDE61:11, A4-SIDE61:12, A4-SIDE61:13, A4-SIDE61:14, A4-SIDE61:15, A4-SIDE62:2, A4-SIDE62:5, A4-SIDE62:6, A4-SIDE62:8, A4-SIDE62:9, A4-SIDE62:10, A4-SIDE62:11, A4-SIDE63:2, A4-SIDE63:5, and A4-SIDE63:6.*

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory did not specify any corrective actions other than the Acid and Fluorosil cleanup procedures.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Copper was detected above the RL in the method blank associated with batch 35028.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Samples *A4-SIDE59:14* and *A4-SIDE61:15* are associated with batch 35028.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The method blank detection for copper is two times greater than the method reporting limit. As a result, the associated project samples may have a high analytical bias. However, the detected copper concentrations in the above listed samples are two orders of magnitude greater than the concentration detected in the blank. Any copper contribution from contaminated laboratory equipment is unlikely to have meaningfully impacted the results.

v. Data quality or usability affected?

Comments:

The data quality/usability is potentially affected; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCS and LCSDs were reported for PCB analysis in conjunction with batches 34766 and 35055.

An LCS was reported for PCB analysis in conjunction with batches 34765, 34814, 34832, 34857, 34883, 34918, 34947, 34986, and 35016. Refer to the MS/MSD discussion for assessment of method precision.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis. Refer to the MS/MSD discussion for assessment of method precision.

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision (where applicable) were demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis in conjunction with batches 34765, 34814, 34832, 34857, 34883, 34918, 34947, 34986, and 35016.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD and post-digestion spike (PDS) samples were reported for copper analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recovery of the copper spike was outside of laboratory control limits in the MS/MSD and/or PDS samples reported with preparation batches 34767, 34811, 34854, 34875, 34921, and 34949.

The recovery of the copper spike was below the laboratory's lower control limit in the MS/MSD samples reported with preparation batch 34838.

The recovery of the Aroclor 1016 spike was above the laboratory's upper control limit in the MS sample reported with preparation batches 34947.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The relative precision demonstrated between the copper spike recoveries of the MS and MSD samples reported with preparation batches 34767, 34854, and 34949 did not meet acceptance criteria.

The relative precision demonstrated between the Aroclors 1016 and 1260 spike recoveries of the MS and MSD samples reported with preparation batch 34832 did not meet acceptance criteria.

The relative precision demonstrated between the Aroclor 1260 spike recoveries of the MS and MSD samples reported with preparation batch 35016 did not meet acceptance criteria.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The copper spikes added to the matrix for the MS/MSD analyses performed with batches 34767, 34811, 34854, 34875, 34921, and 34949 were grossly low compared to the native concentrations in the parent samples. These discrepancies can render the spike concentrations unquantifiable against the background copper concentrations. The resulting uncertainty renders the recovery calculations unrepresentative of actual method performance. The copper results of the parent samples *A4-SIDE62:5*, *A4-SIDE57:11*, and *A4-SIDE60:15* may lack precision.

The parent sample for the MS and MSD samples reported with batch 34838 is project sample *A4-SIDE64:5*. The laboratory analyzed a PDS sample in response to the MS/MSD recovery failures and demonstrated passing recovery.

The parent sample for the MS and MSD samples reported with batch 34832 is project sample *A4-SIDE64:2*. The Aroclor 1016 and 1260 results of the parent sample may lack precision.

The parent sample for the MS sample reported with batch 34947 is project sample *A4-SIDE59:12*. However, the Aroclor 1016 spiking concentration was within 2X that of the native concentration in the parent sample. The resulting uncertainty may render the recovery calculations unrepresentative of actual method performance.

The parent sample for the MS and MSD samples reported with batch 35016 is project sample *A4-SIDE61:15*. The Aroclor 1260 result of the parent sample may lack precision.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The copper results of samples *A4-SIDE62:5*, *A4-SIDE57:11*, and *A4-SIDE60:15* are considered estimated and flagged J* to identify the imprecision.

The Aroclor 1016 and 1260 results of sample *A4-SIDE64:2* are considered estimated and flagged J* to identify the imprecision.

The Aroclor 1260 result of sample *A4-SIDE61:15* is considered estimated and flagged J* to identify the imprecision.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

Sample A4-SIDE50:2 is a field duplicate for sample A4-SIDE200:2.
Sample A4-SIDE58:2 is a field duplicate for sample A4-SIDE201:2.
Sample A4-SIDE62:10 is a field duplicate for sample A4-SIDE202:10

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The RPD for copper exceeded the DQO of 50-percent for soil in duplicate pair *A4-SIDE58:2* and *A4-SIDE201:2*. The copper results for both samples are considered estimated and are flagged J* in the analytical data tables to qualify the imprecision.

The relative precision demonstrated between the detected results of the field duplicate samples *A4-SIDE50:2* and *A4-SIDE200:2* were within the DQO of 50-percent (where calculable) for all analytes.

Analysis was not requested for the field duplicate sample *A4-SIDE202:10*; an RPD could not be calculated.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is affected; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

2112242

Laboratory Report Date:

January 20, 2022

Report Name:

8801 - Remediation

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Other data flags and qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Dana Fjare / Validated by Adam Wyborny, P.E.

Title:

Environmental Scientist / Senior Environmental Engineer

Date:

March 18, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

Project Number

103485-009

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

Many samples had analyses marked as on-hold. The CoC was later annotated with the final analyses and turnaround times.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples did not require chemical preservation.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory did not document any sample handling discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The Acid Cleanup and Fluorosil Cleanup Procedures were required prior to the polychlorinated biphenyls (PCBs) analyses for project samples *A4-SIDE65:2, A4-SIDE65:5, A4-SIDE66:5, A4-SIDE67:3, A4-SIDE67:6, A4-SIDE68:2, A4-SIDE68:7, A4-SIDE69:1.5, A4-SIDE203:1.5, A4-SIDE69:6.5, A4-SIDE70:2, A4-SIDE70:7, A4-SIDE71:2.5, A4-SIDE71:7, A4-SIDE71:8, A4-SIDE72:2, A4-SIDE72:6.5, A4-SIDE73:2.5, A4-SIDE73:7, A4-SIDE204:2.5, A4-SIDE74:2.5, A4-SIDE74:7, A4-SIDE77:2, A4-SIDE77:6.5, A4-SIDE78:1.5, A4-SIDE206:1.5, A4-SIDE78:7, A4-SIDE78:8, A4-SIDE78:9, A4-SIDE76:8, A4-SIDE76:9, A4-SIDE76:10, A4-SIDE76:11, A4-SIDE76:12, A4-SIDE76:13, A4-SIDE76:14, A4-SIDE75:2, A4-SIDE75:8, A4-SIDE75:9, and A4-SIDE75:10.*

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory did not specify any corrective actions.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Copper was detected above the RL in the method blank associated with batch 35028.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Samples *A4-SIDE76:7*, *A4-SIDE76.1.5*, and *A4-SIDE205:1.5* are associated with batch 35028.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The method blank detection for copper is two times greater than the method reporting limit. As a result, the associated project samples may have a high analytical bias. However, the detected copper concentrations in these samples are two orders of magnitude greater than the concentration detected in the blank. Any copper contribution from contaminated laboratory equipment is unlikely to have meaningfully impacted the results.

v. Data quality or usability affected?

Comments:

The data quality/usability is potentially affected; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCS and LCSDs were reported for PCB analysis in conjunction with batch 35055.

An LCS was reported for PCB analysis in conjunction with batches 34788, 34814, 34832, 34857, 34883, 34910, 34931, 34958, 34986, 35039, and 35102. Refer to the MS/MSD discussion for assessment of method precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis. Refer to the MS/MSD discussion for assessment of method precision.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision (where applicable) were demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis in conjunction with batches 34788, 34814, 34832, 34857, 34883, 34910, 34931, 34958, 34986, 35039, and 35102.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD and post-digestion spike (PDS) samples were reported for copper analysis.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recovery of the copper spike was outside of laboratory control limits in the MS/MSD and/or PDS samples reported with preparation batches 34811, 34854, 34875, and 34921.

The recovery of the copper spike was below the laboratory's lower control limit in the MS/MSD samples reported with preparation batch 34838.

The recovery of the copper spike was above the laboratory's upper control limit in the MSD sample reported with preparation batch 34899.

The recovery of the Aroclor 1260 spike was above the laboratory's upper control limit in the MS and MSD samples reported with preparation batch 34931.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The relative precision demonstrated between the copper spike recoveries of the MS and MSD samples reported with preparation batches 34854, 34899, and 34966 did not meet acceptance criteria.

The relative precision demonstrated between the Aroclors 1016 and 1260 spike recoveries of the MS and MSD samples reported with preparation batches 34788 and 34832 did not meet acceptance criteria.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The parent samples for the MS/MSD samples with recovery and precision failures were not samples from this work order, except for batch 34788, for which the parent sample is project sample *A4-SIDE65:2*.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The Aroclor 1016 and 1260 results of sample *A4-SIDE65:2* may lack precision as demonstrated by the amount of agreement between the MS/MSD recoveries. These results are considered estimated and flagged J* in the summary table.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality is affected; see above for applied qualifiers.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

Sample A4-SIDE69:1.5 is a field duplicate for sample A4-SIDE203:1.5.
Sample A4-SIDE73:2.5 is a field duplicate for sample A4-SIDE204:2.5.
Sample A4-SIDE76:1.5 is a field duplicate for sample A4-SIDE205:1.5
Sample A4-SIDE78:1.5 is a field duplicate for sample A4-SIDE206:1.5

ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

The RPDs were less than the project objective of 50-percent for soil except for Aroclor 1254 in the field duplicate pair A4-SIDE76:1.5 and A4-SIDE205:1.5.

2112277

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The Aroclor 1254 results of project samples *A4-SIDE76:1.5* and *A4-SIDE205:1.5* are considered estimated and is flagged J* to qualify the imprecision.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Other data flags and qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Dana Fjare / Validated by Adam Wyborny, P.E.

Title:

Environmental Scientist / Senior Environmental Engineer

Date:

March 18, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

Project Number

103485-009

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

The requested analyses were not marked on the CoC. The CoC was later annotated with the final analyses and turnaround times.

- b. Correct analyses requested?

Yes No N/A Comments:

The CoC did not specify which samples should be held for which analyses and did not specify the turnaround time for analysis. We presume that the annotations made to the CoC were done in consultation with the project manager.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples did not require chemical preservation.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

Notes on the CoC indicate that the laboratory did not receive sample *A4-SIDE85:1.5* and sample *A4-SIDE86:15* was mislabeled *A4-SIDE86:14*.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected by the discrepancies. CoC and sample ID irregularities were resolved by the project manager.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The Acid Cleanup and Fluorosil Cleanup Procedures were required prior to the polychlorinated biphenyls (PCBs) analyses for project samples *A4-SIDE79:2*, *A4-SIDE79:5*, *A4-SIDE79:6*, *A4-SIDE79:7*, *A4-SIDE79:8*, *A4-SIDE80:1.5*, *A4-SIDE80:5*, *A4-SIDE81:22*, *A4-SIDE81:6*, *A4-SIDE82:1.5*, *A4-SIDE82:7*, *A4-SIDE82:8*, *A4-SIDE83:3*, *A4-SIDE83:6*, *A4-SIDE84:3*, *A4-SIDE86:1.5*, *A4-SIDE86:7*, *A4-SIDE210:1.5*, *A4-SIDE87:2*, and *A4-SIDE87:6.5*.

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory did not specify any corrective actions other than the Acid and Fluorosil Cleanup procedures.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target analytes were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Target analytes were not detected in the method blanks.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCSs were reported for PCB analysis in each preparation batch. Refer to the MS/MSD discussion for assessment of method precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis in each preparation batch. Refer to the MS/MSD discussion for assessment of method precision.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Precision could not be evaluated.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

- c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

- ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS/MSD and post-digestion spike (PDS) samples were reported for copper analysis.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

The recovery of the copper spike was above the laboratory's upper control limit in the MSD sample reported with preparation batch 34899.

The recovery of the copper spike was outside of laboratory control limits in the MS/MSD and/or PDS samples reported with preparation batches 34921 and 34949.

The recovery of the Aroclor 1260 spike was above the laboratory's upper control limit in the MS and MSD samples reported with preparation batch 34931.

The recovery of the Aroclor 1016 spike was above the laboratory's upper control limit in the MS sample reported with preparation batch 34947.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

The relative precision demonstrated between the copper spike recoveries of the MS and MSD samples reported with preparation batches 34899, 34949, and 34966 did not meet acceptance criteria.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The parent samples for the MS/MSD samples with recovery and precision failures were not samples from this work order, except for batch 34931, for which the parent sample is project sample *A4-SIDE79:6*.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Aroclor 1260 was not detected in sample *A4-SIDE79:6*. The non-detect result is therefore unaffected by matrix effects resulting in potentially elevated method recovery.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected; see above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

Sample *A4-SIDE79:2* is a field duplicate for sample *A4-SIDE206:2*.
Sample *A4-SIDE80:1.5* is a field duplicate for sample *A4-SIDE207:1.5*.
Sample *A4-SIDE82:1.5* is a field duplicate for sample *A4-SIDE208:1.5*.
Sample *A4-SIDE83:3* is a field duplicate for sample *A4-SIDE209:3*.
Sample *A4-SIDE86:1.5* is a field duplicate for sample *A4-SIDE210:1.5*.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The field duplicate samples *A4-SIDE206:2*, *A4-SIDE207:1.5*, *A4-SIDE208:1.5*, and *A4-SIDE209:3* were not analyzed, so an RPD could not be calculated.

The RPDs were less than the project objective of 50-percent for soil except for copper in the field duplicate pair *A4-SIDE86:1.5* and *A4-SIDE210:1.5*.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The copper results of the field duplicate samples *A4-SIDE86:1.5* and *A4-SIDE210:1.5* are considered estimated and are flagged J* identify the imprecision.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2112301

Laboratory Report Date:

February 4, 2022

Report Name:

8801 - Remediation

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Other data flags and qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Rachel Willis / Michael Jaramillo

Title:

Environmental Scientist/ Senior Chemist

Date:

February 11, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory documents that laboratory samples *A4-SIDE88:1.5*, *A4-SIDE88:7*, and *A4-SIDE211:1.5* required acid and florasil cleanup during preparatory procedures.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs and metals were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analyses.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for copper analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

%R was within project limits with the exceptions noted below.

- low %R for copper in samples 2112242-085AMS / 2112242-085AMSD in batch 34838; and
- high %R for copper in samples 2112242-060AMS / 2112242-060AMSD in batch 34921.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

Aroclor 1016 and Aroclor 1260 had RPD greater than the laboratory limit in sample batch 34832 sample 2112242-084AMSD.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; the project samples with the MS/MSD %R and RPD failures are not included in this work order. Project samples are not affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

e. Trip Blanks

- i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

- ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

- iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

- iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

- v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

Sample *A4-SIDE88:1.5* is a field duplicate for sample *A4-SIDE211:1.5*.

- ii. Submitted blind to lab?

Yes No N/A Comments:

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2112321

Laboratory Report Date:

January 4, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Reviewed by Dana Fjare / Validated by Adam Wyborny, P.E.

Title:

Environmental Scientist / Senior Environmental Engineer

Date:

March 18, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

Project Number

103485-009

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

Most of the samples were marked as on-hold on the CoC. The CoC was later annotated with the final analyses and turnaround times. We presume that the annotations made to the CoC were done in consultation with the project manager.

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

Sample *A4-SIDE98:2* was received at 8.7 degrees Fahrenheit. Samples were received by the laboratory on the same day that they were collected and a reasonable attempt was made to chill them; no qualification is required for the temperature exceedance.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples did not require chemical preservation.

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory did not document any sample handling discrepancies.

- e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

- a. Present and understandable?

Yes No N/A Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The Acid Cleanup and Fluorosil Cleanup Procedures were required prior to the polychlorinated biphenyls (PCB) analyses for project samples *A4-SIDE125:2, A4-SIDE125:6, A4-SIDE125:8, A4-SIDE128:1, A4-SIDE128:6, A4-SIDE129:1, A4-SIDE129:6.2, A4-SIDE130:2, A4-SIDE130:6, A4-SIDE133:2, A4-SIDE133:5.5, A4-SIDE134:2, A4-SIDE134:6,I and A4-SIDE217:2.*

- c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory did not specify any corrective actions other than the Acid and Fluorosil Cleanup Procedures.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

Project analytes were not detected in the method blanks above the RL; however, copper was detected at an estimated concentration below the RL in the method blank associated with preparatory batch 35135.

iii. If above RL or project specified objectives, what samples are affected?

Comments:

Project samples *A4-SIDE126:2*, *A4-SIDE126:6*, *A4-SIDE127:2*, *A4-SIDE127:6*, and *A4-SIDE127:8* are associated with batch 35135.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Copper was detected in the associated project samples at concentrations greater than ten times the concentration detected in the method blank. The results are therefore not meaningfully affected.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected; see above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

LCSs were reported for PCB analysis in all preparation batches. Refer to the MS/MSD discussion for assessment of method precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for copper analysis in conjunction with batches 35113 and 35135. Refer to the MS/MSD discussion for assessment of method precision.

An LCS and laboratory duplicate sample were reported for copper analysis in conjunction with batch 35192.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy and precision (where applicable) were demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis in all preparation batches.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for copper analysis in conjunction with batches 35113 and 35135.

An MS sample was reported for copper analysis in conjunction with batch 35192. Refer to the laboratory duplicate sample for assessment of method precision.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A; method accuracy and precision were not adversely affected by the sample matrix.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

MS/MSD accuracy and precision were within laboratory control limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

f. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

- ii. Submitted blind to lab?

Yes No N/A Comments:

Sample *A4-SIDE134:2* is a field duplicate for sample *A4-SIDE217:2*.
Sample *A4-SIDE124:1* is a field duplicate for sample *A4-SIDE216:1*.
Sample *A4-SIDE121:2* is a field duplicate for sample *A4-SIDE215:2*.

- iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The RPD for copper exceeded the recommended project objective of 50-percent in duplicate pair *A4-SIDE134:2* and *A4-SIDE217:2*. The RPD was acceptable for the remaining analytes, where calculable.

The field duplicate samples *A4-SIDE124:1*, *A4-SIDE216:1*, *A4-SIDE121:2*, and *A4-SIDE215:2* were not analyzed so an RPD could not be calculated.

- iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The copper and Aroclor 1254 results of the field duplicate samples *A4-SIDE134:2* and *A4-SIDE217:2* are considered estimated and are flagged J* to identify the imprecision.

- g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

2201334

Laboratory Report Date:

February 1, 2022

Report Name:

8801 - Remediation

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Other data flags and qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

September 13, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory sample -014 was incorrectly labeled on the COC. The sample name was updated to *A4-BOT143:8* per the Shannon & Wilson project manager.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures identified by the laboratory.

c. Were all corrective actions documented?

Yes No N/A Comments:

See above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See above.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

ii. Submitted blind to lab?

Yes No N/A Comments:

See above.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

See above.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208229

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

September 13, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures identified by the laboratory.

c. Were all corrective actions documented?

Yes No N/A Comments:

See above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data were not affected; see above.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

ii. Submitted blind to lab?

Yes No N/A Comments:

See above.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

See above.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208249

Laboratory Report Date:

August 18, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

September 13, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory documents that the five samples submitted with this work order required acid and florisol cleanup during preparatory procedures.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

ii. Submitted blind to lab?

Yes No N/A Comments:

See above.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

See above.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208276

Laboratory Report Date:

August 19, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

September 13, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

c. Were all corrective actions documented?

Yes No N/A Comments:

See above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See above.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

Field duplicate samples were submitted *A4-SIDE150:2 / A4-SIDE218:2*.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The RPD for the field duplicate pair was above the recommended DQO for Aroclor-1245 and Total PCBs. Sample results are considered estimated and flagged 'J' to identify the imprecision.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Yes; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208314

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

September 13, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

c. Were all corrective actions documented?

Yes No N/A Comments:

See above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

ii. Submitted blind to lab?

Yes No N/A Comments:

See above.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

See above.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208325

Laboratory Report Date:

August 24, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

October 14, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

No discrepancies were noted by the laboratory in the case narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

The laboratory documents that the five samples submitted with this work order required acid and florisol cleanup during preparatory procedures.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

The case narrative does not specify an effect on data quality/usability.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

A LCS was reported for metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for metals analysis.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

Field duplicate samples were submitted *A4-SIDE171:2 / A4-SIDE219:2* and *A4-SIDE176:2 / A4-SIDE-220:2*.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The RPD for the field duplicate pair *A4-SIDE171:2 / A4-SIDE219:2* was above the recommended DQO for Aroclor-1245 and Total PCBs. Sample results are considered estimated and flagged 'J' to identify the imprecision.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Yes; see above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208415

Laboratory Report Date:

August 30, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Laboratory Data Review Checklist

Completed By:

Mason Craker

Title:

Geologist

Date:

October 14, 2022

Consultant Firm:

Shannon & Wilson, Inc.

Laboratory Name:

Fremont Analytical

Laboratory Report Number:

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

Project Number

103485-009

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

- a. Did a WA State Ecology approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

The project samples were submitted to Fremont Analytical of Seattle, Washington, a WA State Department of Ecology approved laboratory for the requested analyses (ID C910).

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses WA State Ecology approved?

Yes No N/A Comments:

The project samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

- b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

Samples did not require preservation.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

The sample receipt form indicates the samples arrived in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

The laboratory does not document any discrepancies.

e. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

There were no discrepancies, errors, or QC failures identified by the laboratory.

c. Were all corrective actions documented?

Yes No N/A Comments:

See above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data were not affected; see above.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the RLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

e. Data quality or usability affected?

The data quality/usability is not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than RL or project specified objectives?

Yes No N/A Comments:

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

iii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; target PCBs were not detected in the method blank samples.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

An LCS was reported for PCB analysis.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate.

Yes No N/A Comments:

Refer to Section 6.c for assessment of laboratory precision.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None; method accuracy was demonstrated to be within acceptable limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

MS and MSD samples were reported for PCB analysis.

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

Metals were not submitted with this work order.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A, see above.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Qualification was not required; see above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

The data quality/usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Surrogate recoveries are within laboratory limits. No flags are required.

iv. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank was not required as no volatiles analyses were requested with this work order.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?

Yes No N/A Comments:

See above.

iii. All results less than RL and project specified objectives?

Yes No N/A Comments:

See above.

iv. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

v. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples or required frequency for the project?

Yes No N/A Comments:

A field duplicate was not submitted with this work order.

ii. Submitted blind to lab?

Yes No N/A Comments:

See above.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

See above.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The data quality/usability is not affected.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

This sample was not collected with reusable equipment. Therefore, an equipment blank was not required.

i. All results less than RLs and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for this work order.

ii. If above RL or project specified objectives, what samples are affected?

Comments:

N/A; see above.

iii. Data quality or usability affected?

Comments:

The data quality/usability is not affected.

2208478

Laboratory Report Date:

September 1, 2022

Report Name:

8801 - Excavations

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Additional data flags or qualifiers were not required.

Appendix H

Upper Confidence Level Calculation

CONTENTS

H.1 INTRODUCTION H-1

H.2 UPPER CONFIDENCE LEVEL CALCULATIONS..... H-3

H.3 REFERENCES..... H-3

Exhibits

Exhibit H-1: H Value Curves..... H-2

Attachment

Attachment H-1: Python® Code for Area 3 Gasoline Distribution Tests and Lands Upper Confidence Level

APPENDIX H: UPPER CONFIDENCE LEVEL CALCULATION

H.1 INTRODUCTION

During the remedial action, there was one instance of a soil confirmation sample that exceeded the project-specific cleanup levels (CULs). One confirmation sample (A3-SIDE6:2.5) from Area 3 contained gasoline-range petroleum hydrocarbon (gasoline) concentrations of 370 milligrams per kilogram (mg/kg) that exceeded the applicable CUL of 250 mg/kg.

The Washington Administrative Code (WAC) 173-340-740(7) outlines a statistical evaluation to demonstrate soil compliance in situations where residual soil contamination was left in-place following remedial activities (i.e., gasoline in Area 3). As outlined in WAC 173-340-740(7)(d)(i)(A) and (B), a confidence interval evaluation of the confirmation sample data can be utilized to demonstrate compliance.

As part of the statistical evaluation, either a lognormal or normal data distribution must be assumed. The gasoline confirmation sample data set were tested for suitability of either lognormal or normal distribution assumptions using D'Agostino's test (D'Agostino, 1971, and D'Agostino and Pearson, 1973) and the lognormal distribution assumption for the data set (i.e., the null hypotheses) was accepted; concluding a lognormal distribution assumption is suitable.

As outlined in WAC 173-340-740(7)(d)(i)(A), for lognormally distributed data sets, soil compliance is achieved if the upper one-sided 95% confidence limit (UCL) on the true mean soil concentration is less than the soil CUL. To calculate the UCL, 173-340-740(7)(d)(i)(A) recommends using Land's method (Land, 1971 and 1975) which defines the UCL as:

$$UCL = e^{\left(y + 0.5s_y^2 + \frac{s_y H_{1-\alpha}}{\sqrt{n-1}}\right)}$$

Where:

e = Euler's Number = 2.718281828

y = mean of the \log_e -transformed data

s_y = standard deviation of the \log_e -transformed data

n = number of confirmation samples

α = significance level (0.05 for 95%)

H = tabled H value from Exhibit H-1

APPENDIX H: UPPER CONFIDENCE LEVEL CALCULATION

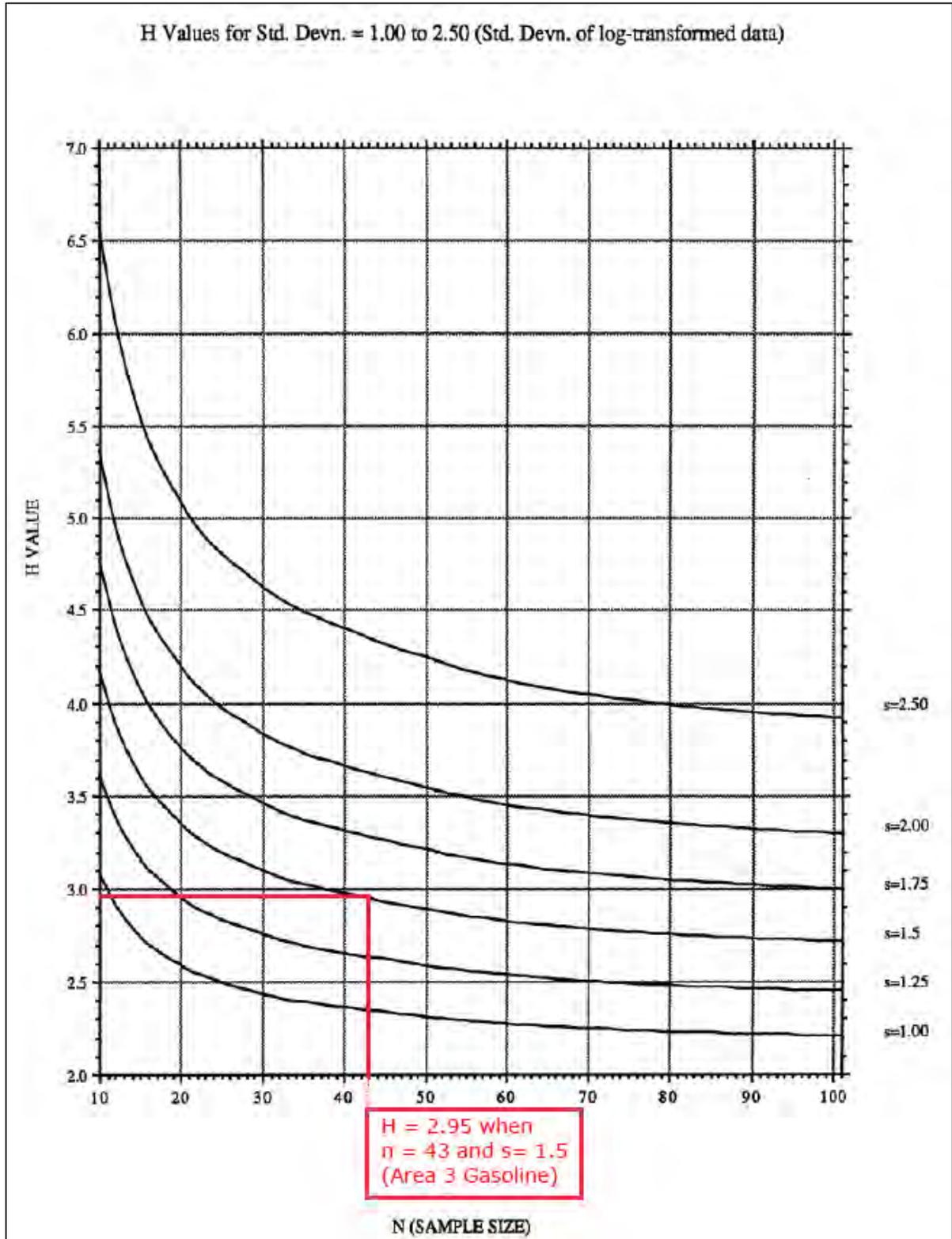


Exhibit H-1: H Value Curves

H.2 UPPER CONFIDENCE LEVEL CALCULATIONS

To calculate the UCL for the lognormally distributed gasoline confirmation sample set, the following values were used:

- Mean of \log_e -transformed data = 2.43243
- Standard deviation of \log_e -transformed data = 1.359
- Number of confirmation samples = 43
- Significance level = 95%
- $H = 2.95$ (See Exhibit H-1. Note, to be conservative, the standard deviation value was rounded-up from 1.359 to 1.50; the nearest plotted standard deviation line.)

The UCL for the gasoline confirmation sample set from Area 3 is 53.22 mg/kg, which is less than the CUL of 250 mg/kg. Therefore, by WAC 173-340-740(7)(d)(i)(A) gasoline in soil in Area 3 is in compliance with the CUL.

The Python® code developed to perform the distribution tests and calculate the UCL utilizing Land's Method for the gasoline in Area 3 is provided as Attachment M-1. The Python code was run using Python version 3.6.7.

H.3 REFERENCES

- D'Agostino, R.B., 1971, An omnibus test of normality for moderate and large size samples: *Biometrika*, v. 58, no. 2, p. 341-348.
- D'Agostino, R. and Pearson, E.S., 1973, Tests for departure from normality. Empirical results for the distributions of b_2 and $\sqrt{b_1}$: *Biometrika*, v. 60, no. 3, p. 613-622.
- Land, C.E., 1971, Confidence intervals for linear functions of the normal mean and variance: *The Annals of Mathematical Statistics*, v. 42, no. 4, p. 1187-1205.
- Land, C.E., 1975, Tables of confidence limits for linear functions of the normal mean and variance, *in* American Mathematical Society, *Selected tables in mathematical statistics*, Volume III: Providence, Rhode Is., pp. 385-419.

Attachment H-1

Python® Code for Area 3 Gasoline Distribution Tests and Lands Upper Confidence Level

APPENDIX H: UPPER CONFIDENCE LEVEL CALCULATION

```
from pylab import *
from numpy import *
import scipy.stats.mstats as mSTAT
import scipy.stats as STAT
from scipy.integrate import quad
import dateutil as date

filename = open('gasoline.csv','r')

gasoline = []

for l in filename:
    d = l.split(',')
    gasoline.append(float(d[0]))

znorm,pvalnorm = STAT.normaltest(gasoline)

### Assign a 95% confidence/significance limit for normality test
if(pvalnorm<0.05):
    print("Sample Set is Not Normally Distributed (D'Agostino and Pearson,
1973)\nConfidence Limit =", (1-pvalnorm)*100, "%")
if(pvalnorm>0.05):
    print("Sample Set is Normally Distributed (D'Agostino and Pearson, 1973)\nConfidence
Limit =", (1-pvalnorm)*100, "%")

lognormal_gasoline = log(array(gasoline))

zlognorm,pvallognorm = STAT.normaltest(lognormal_gasoline)
### Assign a 95% confidence / significance limit for lognormal test
if (pvallognorm<0.05):
```

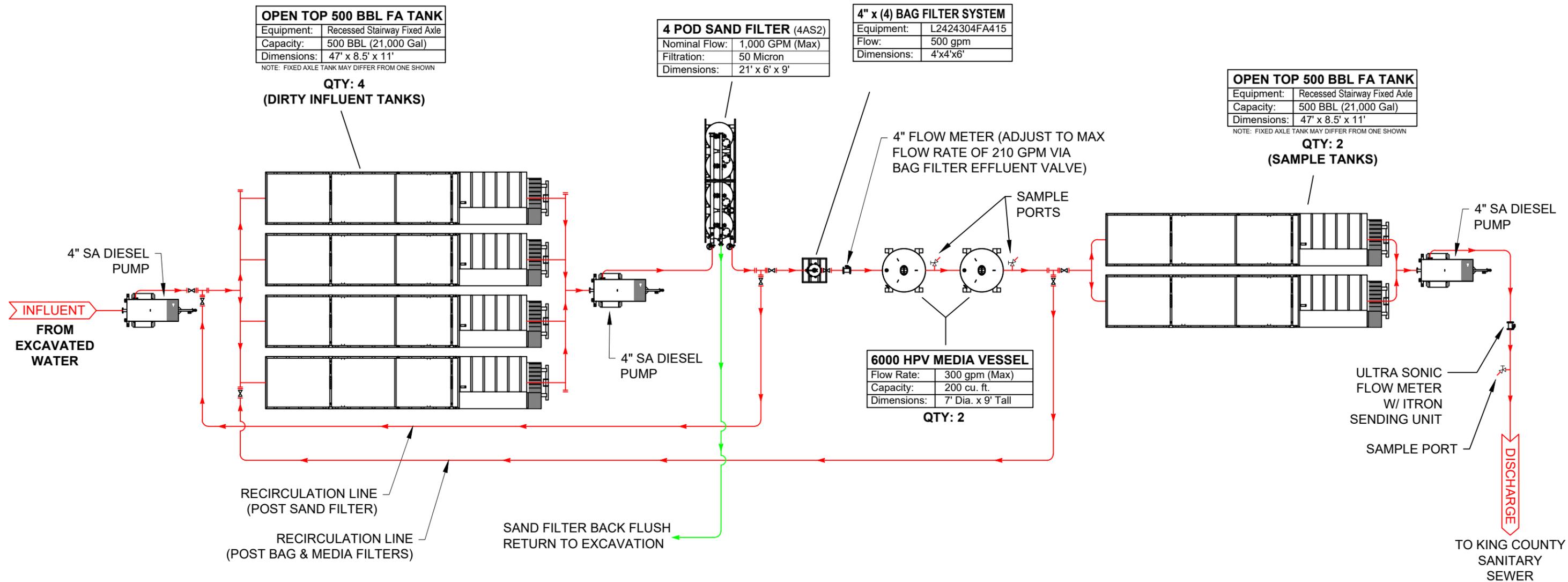
```
print("Sample Set is Not Lognormally Distributed (D'Agostino and Pearson,  
1973)\nConfidence Limit =", (1-pvallognorm)*100, "%")  
if (pvallognorm>0.05):  
    print("Sample Set is Lognormally Distributed (D'Agostino and Pearson,  
1973)\nConfidence Limit =", (1-pvallognorm)*100, "%")  
  
sigma = std(lognormal_gasoline)  
print("Standard Deviation =", sigma)  
mew = mean(lognormal_gasoline)  
print("Mean =", mew)  
n = len(lognormal_gasoline)  
print("n =", n)  
H = 2.95  
fractal = (sigma*H)/(sqrt(n-1))  
  
### Compute UCL using Land's Method  
  
LAN = mew + (0.5*sigma**2) + fractal  
LAN = e**LAN  
  
print("The upper one sided ninety-five percent confidence limit on the true mean is", LAN)
```

Appendix I

Water Treatment and Discharge Documents

CONTENTS

- Treatment System Process Flow Diagram
- King County Discharge Authorization No. 4573-01
- King County Discharge Authorization No. 4594-01
- City of Tukwila Public Works Construction Permit PW21-0100
- City of Tukwila Public Works Construction Permit PW21-0100 Extension Letter
- September 2021 Self-Monitoring Report
- October 2021 Self-Monitoring Report
- August 2022 Self-Monitoring Report
- September 2022 Self-Monitoring Report
- October 2022 Self-Monitoring Report
- December 2022 Self-Monitoring Report
- January 2023 Self-Monitoring Report



OPEN TOP 500 BBL FA TANK	
Equipment:	Recessed Stairway Fixed Axle
Capacity:	500 BBL (21,000 Gal)
Dimensions:	47' x 8.5' x 11'

NOTE: FIXED AXLE TANK MAY DIFFER FROM ONE SHOWN

4 POD SAND FILTER (4AS2)	
Nominal Flow:	1,000 GPM (Max)
Filtration:	50 Micron
Dimensions:	21' x 6' x 9'

4" x (4) BAG FILTER SYSTEM	
Equipment:	L2424304FA415
Flow:	500 gpm
Dimensions:	4'x4'x6'

OPEN TOP 500 BBL FA TANK	
Equipment:	Recessed Stairway Fixed Axle
Capacity:	500 BBL (21,000 Gal)
Dimensions:	47' x 8.5' x 11'

NOTE: FIXED AXLE TANK MAY DIFFER FROM ONE SHOWN

6000 HPV MEDIA VESSEL	
Flow Rate:	300 gpm (Max)
Capacity:	200 cu. ft.
Dimensions:	7' Dia. x 9' Tall

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ADD SAMPLE PORT, RELOCATE 2ND RECIRCULATION LINE	08-24-21	B. GROVER
B	ADD FLOW METER, PUMP & RECIRCULATION LINE	08-23-21	B. GROVER
A	ADD 4 POD SAND FILTER, RECIRC LINE & VESSEL SAMPLE PORTS	08-19-21	B. GROVER

The information presented on this drawing is for informational purposes only. Use of this drawing is not a replacement for a professional engineering evaluation of the application. This drawing is intended to show preliminary equipment requirements and arrangement and is in no way a replacement for a thorough engineering review of the application at hand. A representative of the customer or end user should always conduct the final evaluation of the application. That representative, and not United Rentals, or its employees and representatives, is responsible for the final engineering design and performance of the application.

No warranty is provided or implied, including any warranty of fitness for a particular purpose. As such, the customer agrees that by using the suggestions shown on this drawing, you assume the risk of all loss or injury resulting from any information found within. In no event shall United Rentals, or any representative or agent thereof, be liable under any theory based in contract, negligence or strict liability or any other legal or equitable theory to any party for amounts including, without limitation, lost revenues, lost profits, lost business or indirect, consequential, incidental, special or punitive damages. This disclaimer shall survive any and all notices advising of the possibility that any user may suffer harm from any inaccuracies contained herein.

The designs, information and data contained herein is proprietary and is submitted in confidence and shall not be disclosed, used or duplicated in whole or in part for any purposes whatsoever without prior written permission from United Rentals. This document shall be returned to United Rentals on its demand. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.

United Rentals
Fluid Solutions

7B OAK BRANCH DRIVE
GREENSBORO, NC 27404

TITLE: **ANDERSON ENVIRONMENTAL - PACCAR, SEATTLE
PROCESS FLOW DIAGRAM**

SHEET SIZE: B 11" x 17"	MATERIAL:	CUSTOMER: _	BRANCH: SET
FINISH:	DWG BY: M. BROOKS	DATE: 08-10-21	SCALE: _
	CKD BY: B. GROVER	DATE: 08-10-21	DWG No: SKF6864
			SHEET: 1 OF: 1
			REV: C



King County

Wastewater Treatment Division

Industrial Waste Program

Department of Natural Resources and Parks

201 South Jackson Street, Suite 5513

Seattle, WA 98104-3855

206-477-5300 Fax 206-263-3001

TTY Relay: 711

August 24, 2021

SENT VIA EMAIL ONLY
ELECTRONIC READ RECEIPT REQUESTED

Brian Haderlie
PACCAR Inc
777 106th Avenue NE
Bellevue, WA 98004
Brian.Haderlie@PACCAR.com

Issuance of new Wastewater Discharge Authorization No. 4573-01 to PACCAR Inc. - 8801
Construction Project

Dear Mr. Haderlie:

The King County Industrial Waste Program (KCIW) has reviewed your application to discharge construction wastewater to the sanitary sewer system from the PACCAR Inc. - 8801 Construction Project located at 8801 East Marginal Way S, Tukwila, Washington, and has issued the enclosed Major Discharge Authorization. The enclosed Discharge Authorization No. 4573-01 is effective August 26, 2021.

This discharge authorization permits your sites to discharge limited amounts of construction wastewater into King County's sanitary sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements, oversight, and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making these changes.

King County Code 28.84 authorizes a fee for each Major Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a new Major Discharge Authorization is \$3000. King County will send you an invoice for this amount.

Brian Haderlie
August 24, 2021
Page 2

If you have any questions about this discharge authorization or your wastewater discharge, please call me at 206-477-5457 or email me at dana.heinz@kingcounty.gov. To learn more about King County's industrial wastewater regulations, visit our program's website at: www.kingcounty.gov/industrialwaste

Thanks in advance for supporting our mission to protect workers, the local and regional sanitary sewer system, our treatment plant infrastructure, and the environment.

Sincerely,

DocuSigned by:

E4F7C314AE1E48D...

Dana Heinz
Compliance Investigator

Enclosures

e-cc: Adib Altallal, City of Tukwila, adib.altallal@tukwilawa.gov
Meg Strong, Shannon & Wilson, mjs@shanwil.com
Joseph Sawdey, Shannon & Wilson, jxs@shanwil.com
Cherie Du, City of Tukwila, cherie.du@tukwilawa.gov



King County

MAJOR DISCHARGE AUTHORIZATION

King County Industrial Waste Program

201 S. Jackson Street, Suite 5513

Seattle, WA 98104-3855

NUMBER 4573-01

for

PACCAR Inc. - 8801 Construction Project

Site address: 8801 East Marginal Way S.
Tukwila, Washington

Mailing address: 777 106th Avenue NE
Bellevue, WA 98004

Phone: (425) 468-7055

Emergency (24-hour) phone: (425) 864-2096

Industry type: Construction Dewatering Project

Discharge to: South Treatment Plant

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater generated by construction dewatering operation

Pretreatment process: Gravity Setting, Carbon Activated Carbon (GAC)

Maximum discharge volume: 40,000 gallons per day

Maximum discharge rate: 100 gallons per minute

Effective date: August 26, 2021

Expiration date: August 25, 2023

DESCRIPTION OF SAMPLE SITES AND DISCHARGE VOLUMES

Sample Site No.	Description	Maximum Daily Discharge Volume (gpd)	Maximum Discharge Rate (gpm)
IW1534A	Sample tap after treatment system	40,000	100

Permission is hereby granted to discharge industrial wastewater from the above-identified site into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization, please call Industrial Waste Compliance Investigator Dana Heinz at 206-477-5457.

24-HOUR EMERGENCY NOTIFICATION

South Treatment Plant: 206-263-1760

Washington State Department of Ecology: 425-649-7000

I. SPECIAL CONDITIONS

- A. In accordance with City of Tukwila requirements, the discharge point shall be the existing side sewer SSMH-E or as otherwise directed by City of Tukwila representatives
- B. For batch sedimentation discharges a minimum 60-minute quiescent settling time must be maintained prior to any discharges. During this settling time, no discharges to or from the sedimentation tank can occur.
- C. Discharge to the sanitary sewer **shall not begin** until KCIW has conducted a preoperative inspection of the pretreatment facilities and has sent written notification to the permittee that discharges may begin.
- D. All persons responsible for monitoring the discharge to the sanitary sewer shall review a copy of this authorization.
- E. A copy of this authorization shall be on site at all times for review and reference.
- F. This authorization grants the discharge of limited amounts of wastewater from the following waste streams:
1. Contaminated stormwater runoff
 2. Excavation dewatering
 3. Well(s) dewatering
 4. Concrete wastewater
- Wastes or contaminants from sources other than permitted herein shall not be discharged to the sanitary sewer without prior approval from KCIW.
- G. The discharge shall not cause hydraulic overloading conditions of the sewerage conveyance system. During periods of peak hydraulic loading KCIW and City of Tukwila representatives reserve the authority to request that discharge to the sewer be stopped.
- H. All wastewater shall be collected and treated in accordance with treatment methods approved by KCIW. Wastewater shall not bypass treatment systems. Modifications to wastewater treatment systems shall not occur without prior approval from KCIW.
- I. Totalizing and non-resettable flow meters must be installed on all permitted discharge pipes to the sewer.
- J. An accessible sampling spigot must be installed on the discharge pipe from the last treatment unit of the wastewater treatment system. The sample site shall be representative of all industrial waste streams discharged to the sewer from this site. Each sample site shall be accessible to KCIW representatives when discharge to the sewer is occurring.
- K. The contractor shall implement erosion control best management practices to minimize the amount of solids discharged to the sanitary sewer system. As a minimum precaution, the wastewater must be pumped to an appropriately sized settling tank(s) prior to entering the sewer system.

- L. The permittee shall properly operate and maintain all wastewater treatment units to ensure compliance with established discharge limits. Solids accumulation in tanks used for solids settling shall not exceed 25% of the tank's working hydraulic capacity. Each tank's working hydraulic capacity is based on the water column height as measured from the bottom of the tank to either the invert elevation of the tank's outlet pipe (gravity discharges) or discharge pump intake (pumped discharges).
- M. Results of all required self-monitoring sampling must be recorded daily. Recorded information for each discharge site must include:
1. Sample date
 2. Sample time
 3. Sample results
 4. Operator name
 5. Comments (if applicable)

These records shall be maintained on site and shall be available for review by KCIW personnel during normal business hours.

- N. The permittee must establish a sewer account with City Of Tukwila and provide necessary reports to ensure accurate assessment of sewer charges for all construction dewatering discharge sites associated with this project.
- O. **Screening Levels for Selected Organic Compounds**
Discharges that exceed the following screening levels have the potential to cause health hazards in the sewage collection system or indicate that treatment has not been sufficient to remove hazardous waste characteristics.

Organic Compound	CAS-RN	mg/L	µg/L
Trichloroethylene (TCE)	127-18-4	0.5	500
Tetrachloroethylene (PCE)	79-01-6	0.24	240
Vinyl chloride	75-01-4	0.012	12
Aroclor 1016	12674-11-2	0.0001	0.1
Aroclor 1221	1104-28-2	0.0001	0.1
Aroclor 1232	11141-16-5	0.0001	0.1
Aroclor 1242	53469-21-9	0.0001	0.1
Aroclor 1248	12672-29-6	0.0001	0.1
Aroclor 1254	11097-69-1	0.0001	0.1
Aroclor 1260	11096-82-5	0.0001	0.1

II. SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1534A	pH	Grab	Daily
	Settleable solids	Grab ^C (by Imhoff cone)	Daily
	Daily Discharge Volume	In-line meter	Daily
	Daily Maximum Flow Rate	In-line meter	Daily
	Maximum Daily Discharge Volume	In-line meter	Monthly
	Total Monthly Flow	In-line meter	monthly
	Hem (oil, total)	3 Grabs ^{B,D}	monthly
	Benzene	Grab ^B	monthly
	Toluene	Grab ^B	monthly
	Ethylbenzene	Grab ^B	monthly
	Total Xylenes	Grab ^B	monthly
	Tetrachloroethylene (PCE)	Grab ^B	monthly
	Trichloroethylene (TCE)	Grab ^B	monthly
	Vinyl Chloride	Grab ^B	monthly
	Aroclor 1016	Grab ^B	monthly
	Aroclor 1221	Grab ^B	monthly
	Aroclor 1232	Grab ^B	monthly
	Aroclor 1242	Grab ^B	monthly
	Aroclor 1248	Grab ^B	monthly
	Aroclor 1254	Grab ^B	monthly
	Aroclor 1260	Grab ^B	monthly
Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded	
Explosivity	Meter reading	Only if operating criteria are exceeded	

B. **Sampling frequency for wastewater characterization is as follows:**

1. Prior to **first three batch** discharges, sample for these parameters and hold batch until you obtain results.
 - a. If any of these parameters exceed the discharge limit or screening level, submit sample results to King County, via e-mail, within one week of your receipt of data. King County will review to evaluate whether any changes in requirements to sample, treat or discharge, need to be made to your permit.
2. Thereafter sampling for these parameters shall be once each month for the remainder of the dewatering project.

- C. The settleable solids field test by Imhoff cone must be performed as follows:
1. Fill Imhoff cone to one-liter mark with well-mixed sample
 2. Allow 45 minutes to settle
 3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
 4. Record volume of settleable matter in the cone as mL/L
- D. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.
- E. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.
- F. A self-monitoring report shall be filed with KCIW no later than the 15th day of the time following the sample collection (e.g., the 15th day of the following month for monthly samples). If no discharge takes place during any monitoring period, it shall be noted on the report.
- G. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.
- H. All sampling data collected by the permittee, at the point of compliance, and analyzed using procedures approved by 40 CFR 136, or approved alternatives, shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.
- I. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:
1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation
 2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:
 - a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations

- b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
 - c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures
3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively
4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency
5. The individuals described in one through four above may designate an authorized representative if:
 - a. The authorization is submitted to King County in writing.
 - b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

III. GENERAL DISCHARGE LIMITATIONS

A. Operating Criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, or unusual color. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

B. Corrosive Substances

Limits

Instantaneous minimum: pH 5.0 (s.u.)

Daily minimum: pH 5.5 (s.u.)

Maximum: pH 12.0 (s.u.)

s.u. = standard units

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0.

The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of caustic solutions greater than pH 12.0 are prohibited unless King County provides prior written authorization. For these situations, the authorized caustic solution discharges above pH 12.0 must be less than pH 12.5 and must not contain an equivalent weight of sodium hydroxide (NaOH) that exceeds a daily loading rate of 21 pounds/day. The authorized discharge of caustic solutions greater than pH 12.0 shall be subject to special conditions to protect worker safety and the POTW.

C. Fats, Oils, and Grease

FOG Accumulations and Obstructions

Discharges of FOG shall not result in significant accumulations which, either alone or in combination with other wastes, are capable of obstructing flow or interfering with the operations or performance of the POTW.

Nonpolar FOG (mineral/petroleum origin)

Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when either:

- the arithmetic mean of the concentration from the individual analyses of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation, or
- the concentration of a single composite sample of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation.

Industrial users that violate the nonpolar FOG limit may be required to complete, for King County review and approval, a FOG control plan.

Polar FOG (Animal and Vegetable Origin)

Industrial users that have the potential to discharge polar FOG shall minimize free-floating polar FOG. Industrial users must minimize the use of emulsifying agents, such as cleaners or detergents, to only the quantity needed to maintain industrial activities at their facility and to not impact the POTW.

Industrial users may not add emulsifying agents prior to or within FOG-removal devices, exclusively for the purposes of emulsifying free-floating FOG.

Industrial users that discharge free-floating polar FOG will be required to complete, for King County review and approval, a FOG control plan.

King County has the authority to include aqueous concentration-based discharge limits for polar FOG or total FOG (i.e., the sum of polar and nonpolar FOG) in permits and discharge authorizations issued to industrial users that primarily discharge FOG of animal or vegetable origin. The concentration-based limits shall be based on what can be achieved through implementation of a treatment technology that the Wastewater Treatment Division Director determines represents all known, available, and reasonable methods of prevention, control, and treatment.

D. Flammable or Explosive Materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5% nor any single reading be more than 10% of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Petroleum Compounds	Maximum Concentration ppm (mg/L)
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2

Heavy Metals/Cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Instantaneous Maximum ppm (mg/L)¹	Daily Average ppm (mg/L)²
Arsenic	4.0	1.0
Cadmium	0.6	0.5
Chromium	5.0	2.75
Copper	8.0	3.0
Lead	4.0	2.0
Mercury	0.2	0.1
Nickel	5.0	2.5
Silver	3.0	1.0
Zinc	10.0	5.0
Cyanide	3.0	2.0

¹The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

²The daily average limit is violated: a) for a continuous flow system when a composite sample consisting of four or more consecutive samples collected during a 24-hour period over intervals of 15 minutes or greater exceeds the limitation, or b) for a batch system when any sample exceeds the limitation. A composite sample is defined as at least four grab samples of equal volume taken throughout the processing day from a well-mixed final effluent chamber, and analyzed as a single sample.

E. High Temperature

The industrial user shall not discharge material with a temperature in excess of 65° C or 150° F.

F. Hydrogen Sulfide

The following are atmospheric hydrogen sulfide limits as measured at a monitoring location designated by King County:

- Short-Term Limit: 15.0 parts per million volume (ppmv) as a 15-minute average
- 8-Hour Limit: 10.0 ppmv as an 8-hour average
- Weekly Limit: 3.0 ppmv as a 7-day average

More stringent weekly atmospheric hydrogen sulfide limits may be developed and imposed on a case-by-case basis depending on nuisance conditions or risks to workers and sewer infrastructure.

Aqueous soluble sulfide limits may be established on a case-by-case basis depending on the volume of discharge and conditions in the receiving sewer, including oxygen content, pH, and existing sulfide concentrations.

G. Organic Compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause acute worker health and safety problems. Organic pollutants subject to this restriction include, but are not limited to, the following:

- Any organic compound listed in the “Total Toxic Organics (TTO)” definition provided in 40 CFR Section 433.11(e) and 40 CFR Section 413.02(i)
- Acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), xylenes

Industrial users are required to implement source control strategies and best management practices to minimize the concentration of any of the aforementioned organic pollutants.

H. Settleable Solids

Settleable solids concentrations: 7.0 mL/L

IV. GENERAL CONDITIONS

- A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.
- B. All pretreatment systems used to bring the permittee's discharge into compliance with King County's discharge limitations and all compliance monitoring equipment shall be maintained continuously in satisfactory and effective operations by the permittee at the permittee's expense, and shall be subject to periodic inspections by authorized KCIW personnel. These systems shall be attended at all times during discharge to the King County sewerage system. In the event that such equipment fails, the permittee must notify KCIW immediately and take spill prevention precautions.
- C. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.
- D. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any changes that will cause the violation of the effluent limitations specified herein will not be allowed.
- E. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
 - 1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
 - 2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
 - 3. For discharge violations, collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.
 - 4. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.
- F. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of the discharge authorization or the resulting liability for failure to comply.
- G. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.
- H. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.
- I. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration

King County Major Discharge Authorization Number 4573-01

Effective Date: August 26, 2021

Expiration Date: August 25, 2023

Page: 12

date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the time period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator:  Date: 8/24/2021
E4F7C314AE1E48D...
Dana Heinz



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 1 of 2

Send to: King County Industrial Waste Program
 201 S. Jackson Street, Suite 513
 Seattle, WA 98104-3855
 Phone 206-477-5300
 Email: info.KCIW@kingcounty.gov

Company Name: PACCAR Inc. - 8801 Construction Project

Sample Site No. IW1534A

Permit/DA No.: 4573-01

Please Specify Month & Year: Month: 20

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1														
2														
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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____ Date _____

Monthly Min pH & Date
 Monthly Max pH & Date

Total Monthly Flow (gallons)
 Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Wastewater Treatment Division

Industrial Waste Program

Department of Natural Resources and Parks

201 South Jackson Street, Suite 5513

Seattle, WA 98104-3855

206-477-5300 Fax 206-263-3001

TTY Relay: 711

June 7, 2022

SENT VIA EMAIL ONLY
ELECTRONIC READ RECEIPT REQUESTED

Brian Haderlie
Paccar Inc.
777 106th Avenue NE
Bellevue, WA 98004
brian.haderlie@paccar.com

Issuance of New Wastewater Discharge Authorization No. 4594-01 to Paccar Inc. - 8801 Site
Remediation Project

Dear Mr. Haderlie:

The King County Industrial Waste Program (KCIW) has reviewed your application to discharge construction wastewater to the sanitary sewer system from the Paccar Inc. - 8801 Site Remediation Project located at 8801 East Marginal Way South, Tukwila, Washington, and has issued the enclosed Major Discharge Authorization. The enclosed Discharge Authorization No. 4594-01 is effective June 8, 2022.

This discharge authorization permits your sites to discharge limited amounts of construction wastewater into King County's sanitary sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements, oversight, and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making these changes.

King County Code 28.84 authorizes a fee for each Major Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a new Major Discharge Authorization is \$3,000. King County will send you an invoice for this amount.

Brian Haderlie

June 7, 2022

Page 2

If you have any questions about this discharge authorization or your wastewater discharge, please call me at 206-477-5462 or email me at peggy.rice@kingcounty.gov. To learn more about King County's industrial wastewater regulations, visit our program's website at: www.kingcounty.gov/industrialwaste

Thanks in advance for supporting our mission to protect workers, the local and regional sanitary sewer system, our treatment plant infrastructure, and the environment.

Sincerely,

DocuSigned by:

9B8687F355F541C...

Peggy Rice
Compliance Investigator

Enclosures

e-cc: Adib Altallal, City of Tukwila, adib.altallal@tukwilawa.gov
Meg Strong, Shannon & Wilson, mjs@shanwil.com
Joseph Sawdey, Shannon & Wilson, jxs@shanwil.com
Cherie Du, City of Tukwila, cherie.du@tukwilawa.gov



King County

MAJOR DISCHARGE AUTHORIZATION

King County Industrial Waste Program
201 S. Jackson Street, Suite 5513
Seattle, WA 98104-3855

NUMBER 4594-01

for

Paccar Inc. - 8801 Site Remediation Project

Site address: 8801 East Marginal Way S.
Tukwila, Washington

Mailing address: 777 106th Avenue NE
Bellevue, WA 98004

Phone: 425-468-7055

Emergency (24-hour) phone: 425-864-2096

Industry type: Construction Dewatering Project/Contaminated Groundwater
Discharge to: South Treatment Plant

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater generated by construction dewatering operation
Pretreatment process: Gravity Settling, Carbon Activated Carbon (GAC)

Maximum discharge volume: 40,000 gallons per day
Maximum discharge rate: 100 gallons per minute

Effective date: June 8, 2022
Expiration date: June 8, 2023

DESCRIPTION OF SAMPLE SITE AND DISCHARGE VOLUMES

Sample Site No.	Description	Maximum Daily Discharge Volume (gpd)	Maximum Discharge Rate (gpm)
IW1565A	Sample tap after treatment system	40,000	100

Permission is hereby granted to discharge industrial wastewater from the above-identified site into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization, please call Industrial Waste Compliance Investigator Peggy Rice at 206-477-5457.

24-HOUR EMERGENCY NOTIFICATION

South Treatment Plant: 206-263-1760
Washington State Department of Ecology: 206-594-0000

I. SPECIAL CONDITIONS

- A. In accordance with City of Tukwila requirements, the discharge point shall be the existing side sewer SSMH-E or as otherwise directed by City of Tukwila representatives.
- B. For batch sedimentation discharges a minimum 60-minute quiescent settling time must be maintained prior to any discharges. During this settling time, no discharges to or from the sedimentation tank can occur.
- C. Discharge to the sanitary sewer **shall not begin** until KCIW has conducted a preoperative inspection of the pretreatment facilities and has sent written notification to the permittee that discharges may begin.
- D. All persons responsible for monitoring the discharge to the sanitary sewer shall review a copy of this authorization.
- E. A copy of this authorization shall be on site at all times for review and reference.
- F. This authorization grants the discharge of limited amounts of wastewater from the following waste streams:
 - 1. Contaminated stormwater runoff
 - 2. Excavation dewatering
 - 3. Well(s) dewatering
 - 4. Concrete wastewater

Wastes or contaminants from sources other than permitted herein shall not be discharged to the sanitary sewer without prior approval from KCIW.

- G. The discharge shall not cause hydraulic overloading conditions of the sewerage conveyance system. During periods of peak hydraulic loading KCIW and City of Tukwila representatives reserve the authority to request that discharge to the sewer be stopped.
- H. All wastewater shall be collected and treated in accordance with treatment methods approved by KCIW. Wastewater shall not bypass treatment systems. Modifications to wastewater treatment systems shall not occur without prior approval from KCIW.
- I. Totalizing and non-resettable flow meters must be installed on all permitted discharge pipes to the sewer.
- J. An accessible sampling spigot must be installed on the discharge pipe from the last treatment unit of the wastewater treatment system. The sample site shall be representative of all industrial waste streams discharged to the sewer from this site. Each sample site shall be accessible to KCIW representatives when discharge to the sewer is occurring.

- K. The contractor shall implement erosion control best management practices to minimize the amount of solids discharged to the sanitary sewer system. As a minimum precaution, the wastewater must be pumped to an appropriately sized settling tank(s) prior to entering the sewer system.
- L. The permittee shall properly operate and maintain all wastewater treatment units to ensure compliance with established discharge limits. Solids accumulation in tanks used for solids settling shall not exceed 25 percent of the tank's working hydraulic capacity. Each tank's working hydraulic capacity is based on the water column height as measured from the bottom of the tank to either the invert elevation of the tank's outlet pipe (gravity discharges) or discharge pump intake (pumped discharges).
- M. Results of all required self-monitoring sampling must be recorded daily. Recorded information for each discharge site must include:
1. Sample date
 2. Sample time
 3. Sample results
 4. Operator name
 5. Comments (if applicable)

These records shall be maintained on site and shall be available for review by KCIW personnel during normal business hours.

- N. The permittee must establish a sewer account with City of Tukwila and provide necessary reports to ensure accurate assessment of sewer charges for all construction dewatering discharge sites associated with this project.
- O. Screening Levels for Selected Organic Compounds**

Discharges that exceed the following screening levels have the potential to cause health hazards in the sewage collection system or indicate that treatment has not been sufficient to remove hazardous waste characteristics.

Organic Compound	CAS-RN	mg/L	µg/L
Trichloroethylene (TCE)	127-18-4	0.5	500
Tetrachloroethylene (PCE)	79-01-6	0.24	240
Vinyl chloride	75-01-4	0.012	12
Aroclor 1016	12674-11-2	0.0001	0.1
Aroclor 1221	1104-28-2	0.0001	0.1
Aroclor 1232	11141-16-5	0.0001	0.1
Aroclor 1242	53469-21-9	0.0001	0.1
Aroclor 1248	12672-29-6	0.0001	0.1
Aroclor 1254	11097-69-1	0.0001	0.1
Aroclor 1260	11096-82-5	0.0001	0.1

II. SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1534A	pH	Grab	Daily
	Settleable solids	Grab ^C (by Imhoff cone)	Daily
	Daily Discharge Volume	In-line meter	Daily
	Daily Maximum Flow Rate	In-line meter	Daily
	Maximum Daily Discharge Volume	In-line meter	Monthly
	Total Monthly Flow	In-line meter	monthly
	Hem (oil, total)	3 Grabs ^{B,D}	monthly
	Benzene	Grab ^B	monthly
	Toluene	Grab ^B	monthly
	Ethylbenzene	Grab ^B	monthly
	Total Xylenes	Grab ^B	monthly
	Tetrachloroethylene (PCE)	Grab ^B	monthly
	Trichloroethylene (TCE)	Grab ^B	monthly
	Vinyl Chloride	Grab ^B	monthly
	Aroclor 1016	Grab ^B	monthly
	Aroclor 1221	Grab ^B	monthly
	Aroclor 1232	Grab ^B	monthly
	Aroclor 1242	Grab ^B	monthly
	Aroclor 1248	Grab ^B	monthly
	Aroclor 1254	Grab ^B	monthly
	Aroclor 1260	Grab ^B	monthly
Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded	
Explosivity	Meter reading	Only if operating criteria are exceeded	

B. **Sampling frequency for wastewater characterization is as follows:**

1. Prior to **first three batch** discharges, sample for these parameters and hold batch until you obtain results.
 - a. If any of these parameters exceed the discharge limit or screening level, submit sample results to King County, via email, within one week of your receipt of data. King County will review to evaluate whether any changes in requirements to sample, treat or discharge, need to be made to your permit.

2. Thereafter sampling for these parameters shall be once each month for the remainder of the dewatering project.
- C. The settleable solids field test by Imhoff cone must be performed as follows:
1. Fill Imhoff cone to one-liter mark with well-mixed sample
 2. Allow 45 minutes to settle
 3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
 4. Record volume of settleable matter in the cone as ml/L
- D. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.
- E. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.
- F. A self-monitoring report shall be filed with KCIW no later than the 15th day of the time following the sample collection (e.g., the 15th day of the following month for monthly samples). If no discharge takes place during any monitoring period, it shall be noted on the report.
- G. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.
- H. All sampling data collected by the permittee, at the point of compliance, and analyzed using procedures approved by 40 CFR 136, or approved alternatives, shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.
- I. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:
1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation

2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:
 - a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations
 - b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
 - c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures
3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively
4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency
5. The individuals described in one through four above may designate an authorized representative if:
 - a. The authorization is submitted to King County in writing.
 - b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

III. GENERAL DISCHARGE LIMITATIONS

A. Operating Criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, or unusual color. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

B. Corrosive Substances

Limits

Instantaneous minimum: pH 5.0 (standard units)

Daily minimum: pH 5.5 (standard units)

Maximum: pH 12.0 (standard units)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0.

The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of caustic solutions greater than pH 12.0 are prohibited unless King County provides prior written authorization. For these situations, the authorized caustic solution discharges above pH 12.0 must be less than pH 12.5 and must not contain an equivalent weight of sodium hydroxide (NaOH) that exceeds a daily loading rate of 21 pounds/day. The authorized discharge of caustic solutions greater than pH 12.0 shall be subject to special conditions to protect worker safety and the POTW.

C. Fats, Oils, and Grease

FOG Accumulations and Obstructions

Discharges of FOG shall not result in significant accumulations which, either alone or in combination with other wastes, are capable of obstructing flow or interfering with the operations or performance of the POTW.

Nonpolar FOG (mineral/petroleum origin)

Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when either:

- The arithmetic mean of the concentration from the individual analyses of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation, or
- The concentration of a single composite sample of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation.

Industrial users that violate the nonpolar FOG limit may be required to complete, for King County review and approval, a FOG control plan.

Polar FOG (Animal and Vegetable Origin)

Industrial users that have the potential to discharge polar FOG shall minimize free-floating polar FOG. Industrial users must minimize the use of emulsifying agents, such as cleaners or detergents, to only the quantity needed to maintain industrial activities at their facility and to not impact the POTW.

Industrial users may not add emulsifying agents prior to or within FOG-removal devices, exclusively for the purposes of emulsifying free-floating FOG.

Industrial users that discharge free-floating polar FOG will be required to complete, for King County review and approval, a FOG control plan.

King County has the authority to include aqueous concentration-based discharge limits for polar FOG or total FOG (i.e., the sum of polar and nonpolar FOG) in permits and discharge authorizations issued to industrial users that primarily discharge FOG of animal or vegetable origin. The concentration-based limits shall be based on what can be achieved through implementation of a treatment technology that the Wastewater Treatment Division Director determines represents all known, available, and reasonable methods of prevention, control, and treatment.

D. Flammable or Explosive Materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Petroleum Compounds	Maximum Concentration ppm (mg/L)
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2

E. Heavy Metals/Cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Instantaneous Maximum ppm (mg/L)¹	Daily Average ppm (mg/L)²
Arsenic	4.0	1.0
Cadmium	0.6	0.5
Chromium	5.0	2.75
Copper	8.0	3.0
Lead	4.0	2.0
Mercury	0.2	0.1
Nickel	5.0	2.5
Silver	3.0	1.0
Zinc	10.0	5.0
Cyanide	3.0	2.0

¹The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

²The daily average limit is violated: a) for a continuous flow system when a composite sample consisting of four or more consecutive samples collected during a 24-hour period over intervals of 15 minutes or greater exceeds the limitation, or b) for a batch system when any sample exceeds the limitation. A composite sample is defined as at least four grab samples of equal volume taken throughout the processing day from a well-mixed final effluent chamber, and analyzed as a single sample.

F. High Temperature

The industrial user shall not discharge material with a temperature in excess of 65° C or 150° F.

G. Hydrogen Sulfide

The following are atmospheric hydrogen sulfide limits as measured at a monitoring location designated by King County:

- Short-Term Limit: 15.0 parts per million volume (ppmv) as a 15-minute average
- 8-Hour Limit: 10.0 ppmv as an 8-hour average
- Weekly Limit: 3.0 ppmv as a 7-day average

More stringent weekly atmospheric hydrogen sulfide limits may be developed and imposed on a case-by-case basis depending on nuisance conditions or risks to workers and sewer infrastructure.

Aqueous soluble sulfide limits may be established on a case-by-case basis depending on the volume of discharge and conditions in the receiving sewer, including oxygen content, pH, and existing sulfide concentrations.

H. Organic Compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that

may cause acute worker health and safety problems. Organic pollutants subject to this restriction include, but are not limited to, the following:

- Any organic compound listed in the “Total Toxic Organics (TTO)” definition provided in 40 CFR Section 433.11(e) and 40 CFR Section 413.02(i)
- Acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), xylenes

Industrial users are required to implement source control strategies and best management practices to minimize the concentration of any of the aforementioned organic pollutants.

I. Settleable Solids

Settleable solids concentrations: 7.0 mL/L

IV. GENERAL CONDITIONS

- A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.
- B. All pretreatment systems used to bring the permittee's discharge into compliance with King County's discharge limitations and all compliance monitoring equipment shall be maintained continuously in satisfactory and effective operations by the permittee at the permittee's expense, and shall be subject to periodic inspections by authorized KCIW personnel. These systems shall be attended at all times during discharge to the King County sewerage system. In the event that such equipment fails, the permittee must notify KCIW immediately and take spill prevention precautions.
- C. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.
- D. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any changes that will cause the violation of the effluent limitations specified herein will not be allowed.
- E. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
 - 1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
 - 2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
 - 3. For discharge violations, collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.
 - 4. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.
- F. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of the discharge authorization or the resulting liability for failure to comply.

- G. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.
- H. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.
- I. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the time period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator:  Date: June 7, 2022

Peggy Rice



City of Tukwila

Department of Public Works

6300 Southcenter Boulevard, Suite #100

Tukwila, Washington 98188

Phone: 206-433-0179

Inspection Scheduling: <https://tukw-egov.aspgov.com/BP/index.html>

Web site: <http://www.TukwilaWA.gov>

PUBLIC WORKS CONSTRUCTION PERMIT

Parcel No: 5422600060 Permit Number: PW21-0100
Address: 8801 E MARGINAL WAY S COMPLEX Issue Date: 9/9/2021
Permit Expires On: 3/8/2022

Project Name: Centerpoint

Owner:

Name: CENTERPOINT 8801 MARGINAL
Address: 1808 SWIFT DR , OAK BROOK, WA,
60523

Contact Person:

Name: Meg Strong **Phone:** (206) 695-6787
Address: 400 N 34TH ST, Suite 100, Seattle, WA,
98103

Contractor:

Name: ANDERSON ENVIRONMNTL CNTRG LLC **Phone:** (360) 577-9194
Address: 705 COLORADO ST , KELSO, WA, 98626
License No: ANDEREC005PD **Expiration Date:** 3/20/2022

DESCRIPTION OF WORK:

Remedial action. The activities which will generate water for discharge to sanitary sewer are intended to remediate soil and groundwater contamination that has been identified in the subsurface of upland portion of the site. Work is being performed as part of an Agreed Order with the WA State DOE (Ecology) (Agreed Order No. 6069). Erin Hobbs is Ecology Site Manager. Groundwater will be dewatered to allow excavation of previously identified contaminated soil at the site below the water table. Dewatering will be required at Excavation Areas 5, 7, 8 (Exhibit A) as the depth of these excavations are anticipated to extend below the surface of the groundwater table. Groundwater will be extracted from the excavation pits with use of sump pumps. The extracted groundwater from these Excavation Areas will be piped to baker tanks or equivalent equipped with sediment settling components and filtered through granular activated carbon before discharge. The extracted groundwater is assumed to be contaminated, analytical testing will be undertaken in advance of batch discharges to sanitary sewer. Batch discharge will occur if analytical data meets the relevant discharge requirements. Results will be available for review by Ecology, King County, and the City of Tukwila. A schematic of the water treatment system to treat extracted groundwater is included (Exhibit B). Excavated contaminated soil will be direct loaded into dump trucks for off-site disposal. If contaminant soil is required to be stockpiled onsite, the following steps shall be taken: 1) soil will be stockpiled on an impervious surface, 2) covered with polyethylene liner when left overnight or not in use, 3) have a berm constructed around the stockpile to prevent stormwater contact and subsequent runoff and 4) shall not be placed near drains, water courses, or other stormwater features. Excavation pits will be protected to prevent drainage of stormwater into them.

Refer to new King County Wastewater Discharge Authorization No.4573-01 to PACCAR Inc. effective Aug 19,2021-8801 EMWS Construction Project;
all conditions of Discharge Authorization shall be met.

Fees Collected: \$5,723.83

Electrical Service Provided by: Seattle City Light Water District: Tukwila Sewer District: Tukwila

Public Works Activities:

Channelization/Striping:

Curb Cut/Access/Sidewalk:

Fire Loop Hydrant:

Flood Control Zone:

Hauling/Oversize Load:

Land Altering: Volumes: Cut: 6040 Fill: 6040

Landscape Irrigation:

Sanitary Side Sewer: Number: 0

Sewer Main Extension:

Storm Drainage: 1

Street Use:

Water Main Extension:

Water Meter: No

All provisions of law and ordinances governing this work will be complied with, whether specified herein or not. The granting of this permit does not presume to give authority to violate or cancel the provisions of any other state or local laws regulating construction or the performance of work.

This permit shall become null and void if the work is not commenced within 180 days for the date of issuance, or if the work is suspended or abandoned for a period of 180 days from the last inspection.

PERMIT CONDITIONS:

- 1: ***PUBLIC WORKS PERMIT CONDITIONS***
- 2: Schedule mandatory pre-construction meeting with the Public Works Inspector, <https://tukw-egov.aspgov.com/BP/index.html>. Any questions please call 206-431-3670.
- 15: Per KC Discharge Authorization dewatering cannot commence until KC inspection of the pretreatment facilities is performed and KC has sent written notification to the permittee that discharges may begin.
- 3: Schedule and attend a Preconstruction Meeting with the Public Works Department prior to start of work under this permit. To schedule, go to <https://tukw-egov.aspgov.com/BP/index.html>. Any questions please call 206-431-3670.
- 4: The applicant or contractor must notify the Public Works Inspector at <https://tukw-egov.aspgov.com/BP/index.html> upon commencement and completion of work at least 24 hours in advance. All inspection requests for utility work must also be made 24 hours in advance. Any questions please call 206-431-3670.
- 5: Permit is valid between the weekday hours of 7:00 a.m. and 5:00 p.m. only. Coordinate with the Public Works Inspector for any work after 5:00 p.m. and weekends.
- 6: Work affecting traffic flows shall be closely coordinated with the Public Works Inspector. Traffic Control Plans shall be submitted to the Inspector for prior approval.
- 7: Flagging, signing and coning shall be in accordance with MUTCD for Traffic Control. Contractor shall provide certified flagmen for traffic control. Sweep or otherwise clean streets to the satisfaction of Public Works each night around hauling route (No flushing allowed). Notify Public Works Inspector before 12:00 Noon on Friday preceding any weekend work.
- 8: Any material spilled onto any street shall be cleaned up immediately.

- 9: Hauling 6 loaded vehicles per hour/8 hours a day for 2 or more consecutive days or hauling hazardous waste shall require application for a Hauling Permit prior to any associated activity.
- 10: Temporary erosion control measures shall be implemented as the first order of business to prevent sedimentation off-site or into existing drainage facilities.
- 11: The site shall have permanent erosion control measures in place as soon as possible after final grading has been completed and prior to the Final Inspection.
- 12: The Land Altering Permit Fee is based upon an estimated 6040 cubic yards of cut and 6040 cubic yards of fill. If the final quantity exceeds this amount, the developer shall be required to recalculate the final quantity and pay the difference in permit fee prior to the Final Inspection.
- 13: From October 1 through April 30, cover any slopes and stockpiles that are 3H:1V or steeper and have a vertical rise of 10 feet or more and will be unworked for greater than 12 hours. During this time period, cover or mulch other disturbed areas, if they will be unworked more than 2 days. Covered material must be stockpiled on site at the beginning of this period. Inspect and maintain this stabilization weekly and immediately before, during and following storms.
- 14: From May 1 through September 30, inspect and maintain temporary erosion prevention and sediment at least monthly. All disturbed areas of the site shall be permanently stabilized prior to final construction approval.
- 16: All conditions of KC Discharge Authorization 4573-01 shall be met.
- 17: Applicant shall keep records of volume sewer discharge in order for Finance Dept. to calculate the sewer discharge fee.

Prior to final PW sign-off applicant shall pay charges for volume sewer discharge to City Sanitary sewer system and submit payment receipt to Public Works.

PERMIT INSPECTIONS REQUIRED

Permit Inspection Line: (206) 438-9350

5200	EROSION MEASURES
1600	PUBLIC WORKS FINAL
5160	PUBLIC WORKS PRE-CON
5070	SANITARY SIDE SEWER



City of Tukwila
Department of Public Works

Allan Ekberg, Mayor
Hari Ponnekanti, Director

March 28, 2022

Joseph Sawdey
400 N 34TH ST, Suite 100
Seattle, WA 98103

RE: Extension Letter # 1
PUBLIC WORKS Application or Permit Number PW21-0100
Centerpoint - 8801 E MARGINAL WAY S COMPLEX

Dear Joseph,

This letter is in response to your written request for an extension to your Permit PW21-0100. The Department Director or the Building Official has reviewed your letter and considered your request to extend the above referenced permit. It has been determined that the City of Tukwila will be granting an extension to the permit through 11/17/2022.

If you should have any questions, please contact our office at (206) 431-3670.

Sincerely,

Laurie Werle
Permit Technician

File No. PW21-0100



Industrial Waste Program Monthly Self-Monitoring Report

King County

Send to: King County Industrial Waste Program
 201 S. Jackson Street, Suite 513
 Seattle, WA 98104-3855
 Phone 206-477-5300
 Email: info.KCIW@kingcounty.gov

Company Name: PACCAR Inc. - 8801 Construction Project

Sample Site No. IW1534A

Permit/DA No.: 4573-01

Please Specify Month & Year: Month: September 2021

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
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22	Grab	9.3	0.0	<2.19	<0.00018	<0.00035	<0.00015	<0.00015	<0.00016	<0.00022	<0.000024			Highest results of 3 batch samples
23														
24														
25														
26														
27														
28												100	30,680	Discharge batches 1, 2, and 3
29												97	21,570	Discharge batches 1, 2, and 3
30														
31														

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

M. Strong

Signature of Principal Executive or Authorized Agent

10/13/2021

Date

Monthly Min pH 9.12 & Date 9/22/2021
 Monthly Max pH 9.30 & Date 9/22/2021

Total Monthly Flow (gallons) 52,250
 Maximum Daily Flow 30,680 & Date 9/28/2021

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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Company Name: PACCAR Inc. - 8801 Construction Project

Sample Site No. IW1534A

Permit/DA No.: 4573-01

Please Specify Month & Year: Month: September 2021

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260						
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22	Grab	<0.000026	<0.000026	<0.000026	<0.000026	<0.000020	0.0000291	<0.000020						
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M. Strong
 Signature of Principal Executive or Authorized Agent
 10/13/2021
 Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

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Company Name: PACCAR Inc. - 8801 Construction Project

Sample Site No. IW1534A

Permit/DA No.: 4573-01

Please Specify Month & Year: Month: October 20 21

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
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4	Grab	9.00	0.0									85	33,026	
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8	Grab	9.32	0.0	<1.25	<0.00018	0.000606	0.000184	0.001252	<0.00016	<0.000212	<0.000024	64	14,788	Monthly grab sample
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15	Grab	8.49	0.5									98	11,340	
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M. Strong
 Signature of Principal Executive or Authorized Agent
 10/29/2021
 Date

Monthly Min pH: 8.49 & Date: 10/15/2021
 Monthly Max pH: 9.32 & Date: 10/08/2021

Total Monthly Flow (gallons): 59,154
 Maximum Daily Flow: 33,026 & Date: 10/04/2021

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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Company Name: PACCAR Inc. - 8801 Construction Project

Sample Site No. IW1534A

Permit/DA No.: 4573-01

Please Specify Month & Year: Month: October 2021

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260										
1																		
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8	Grab	<0.000026	<0.000026	<0.000026	<0.000026	<0.000020	<0.000020	<0.000020										
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M. Strong
 Signature of Principal Executive or Authorized Agent
 10/29/2021
 Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
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Seattle, WA 98104-3855
Phone 206-477-5300
Email: info.KCIW@kingcounty.gov

Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: August 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
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NO CONSTRUCTION
DEWATERING PERFORMED
DURING AUGUST 2022 - NO
SAMPLING OR SELF
MONITORING DATA TO REPORT

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9/29/2022

Date

Signature of Principal Executive or Authorized Agent

Monthly Min pH & Date

Monthly Max pH & Date

Total Monthly Flow (gallons)

Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: August 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260												
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**NO CONSTRUCTION
DEWATERING PERFORMED
DURING AUGUST 2022 - NO
SAMPLING OR SELF
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Date
9/29/2022
Signature of Principal Executive or Authorized Agent

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

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Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: September 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
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NO CONSTRUCTION
DEWATERING PERFORMED
DURING SEPTEMBER 2022 - NO
SAMPLING OR SELF
MONITORING DATA TO REPORT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

10/19/2022

Date

Monthly Min pH & Date
Monthly Max pH & Date

Total Monthly Flow (gallons)
Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: September 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260												
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**NO CONSTRUCTION
DEWATERING PERFORMED
DURING SEPTEMBER 2022 - NO
SAMPLING OR SELF
MONITORING DATA TO REPORT**

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Signature of Principal Executive or Authorized Agent
Date: 10/19/2022

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

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Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: October 2022

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NO CONSTRUCTION
DEWATERING PERFORMED
DURING OCTOBER 2022 - NO
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Signature of Principal Executive or Authorized Agent

11/3/2022

Date

Monthly Min pH & Date

Monthly Max pH & Date

Total Monthly Flow (gallons)

Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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Permit/DA No.: 4594-01

Please Specify Month & Year: Month: October 2022

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Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260												
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**NO CONSTRUCTION
DEWATERING PERFORMED
DURING OCTOBER 2022 - NO
SAMPLING OR SELF
MONITORING DATA TO REPORT**

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Signature of Principal Executive or Authorized Agent
Date: 11/3/2022

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

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Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: December 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
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NO CONSTRUCTION
DEWATERING PERFORMED
DURING DECEMBER 2022 FOR
ACTIVITIES ASSOCIATED WITH
THIS PERMIT- NO SAMPLING OR
SELF MONITORING DATA TO
REPORT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

1/16/2023

Date

Signature of Principal Executive or Authorized Agent

Monthly Min pH & Date
Monthly Max pH & Date

Total Monthly Flow (gallons)
Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

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201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300
Email: info.KCIW@kingcounty.gov

Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: December 2022

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260												
1																				
2																				
3																				
4																				
5																				
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7																				
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**NO CONSTRUCTION
DEWATERING PERFORMED
DURING DECEMBER 2022 FOR
ACTIVITIES ASSOCIATED WITH
THIS PERMIT- NO SAMPLING OR
SELF MONITORING DATA TO
REPORT**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

1/16/2023
Date
Signature of Principal Executive or Authorized Agent

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300
Email: info.KCIW@kingcounty.gov

Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: January 2023

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	pH	Settleable Solids	Non-Polar FOG	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra- chloroethylene (PCE)	Tri- chloroethylene (TCE)	Vinyl Chloride	Max. Daily Flow rate (gpm)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1														
2														
3														
4														
5														
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7														
8														
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NO CONSTRUCTION
DEWATERING PERFORMED
DURING JANUARY 2023 FOR
ACTIVITIES ASSOCIATED WITH
THIS PERMIT- NO SAMPLING OR
SELF MONITORING DATA TO
REPORT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

[Signature]
Signature of Principal Executive or Authorized Agent

2/2/2023
Date

Monthly Min pH & Date

Monthly Max pH & Date

Total Monthly Flow (gallons)

Maximum Daily Flow & Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS **Due Date:** Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

PAGE 2 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300
Email: info.KCIW@kingcounty.gov

Company Name: PACCAR INC - 8801 Remediation Project

Sample Site No. IW1565A

Permit/DA No.: 4594-01

Please Specify Month & Year: Month: January 2023

This form is available at www.kingcounty.gov/industrialwaste

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (Composite) G (grab)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260												
1																				
2																				
3																				
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**NO CONSTRUCTION
DEWATERING PERFORMED
DURING JANUARY 2023 FOR
ACTIVITIES ASSOCIATED WITH
THIS PERMIT- NO SAMPLING OR
SELF MONITORING DATA TO
REPORT**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

2/2/2023
Date

Signature of Principal Executive or Authorized Agent

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

Appendix J

Waste Profiling Documents

CONTENTS

- Analytical Resources Inc., Work Order 19G0302, July 30, 2019
- Analytical Resources, Inc., Work Order 20B0027, February 17, 2020
- Fremont Analytical, Lab Report, Work Order No. 2103041, March 17, 2021
- Rainier Environmental, Dangerous Waste Characterization, May 24, 2021, Sample ID: A4+A5:C
- Waste Management, Non-Hazardous WAM Approval, Profile No. 135321OR, Expiration Date May 27, 2022
- Waste Management, Non-Hazardous WAM Approval, Profile No. 135321OR, Expiration Date June 8, 2023



30 July 2019

Joseph Sawdey
Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle, WA 98103-8636

RE: 8801 E Marginal Way S

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
19G0302

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com

ARI Assigned Number: 19G0302	Turn-around Requested: Standard	Page: 1 of 1
ARI Client Company: Shannon & Wilson	Phone: (206) 695-6907	Date: 7/23
Client Contact: Joe Sawbery		Ice Present? Yes
Client Project Name: 8801 Remediation		No. of Coolers: 1
Client Project #: 103485	Samplers: Joe Sawbery	Cooler Temps: 4.4°C

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested								Notes/Comments	
					HVOCs by EPA 8260C*	Trihaloethanes	by EPA 8260C							
RGW-01	7/23	0915	Water	3	X									
RGW-02	↓	1015	↓	↓	X									
RGW-03	↓	1120	↓	↓	X									
B-1:4	↓	1215	Soil	↓		X								
B-1:8	↓	12:25	↓	↓		X								
Top Blank														
Comments/Special Instructions *Vinyl chloride by 8260C-SIM	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)										
	Printed Name: Joe Sawbery	Printed Name: Jacob Walter	Printed Name:	Printed Name:										
	Company: Shannon & Wilson	Company: ARI	Company:	Company:										
	Date & Time: 7/23/19 16:25	Date & Time: 07/23/19 1625	Date & Time:	Date & Time:										

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RGW-01	19G0302-01	Water	23-Jul-2019 09:15	23-Jul-2019 16:25
RGW-02	19G0302-02	Water	23-Jul-2019 10:15	23-Jul-2019 16:25
RGW-03	19G0302-03	Water	23-Jul-2019 11:20	23-Jul-2019 16:25
B-1:4	19G0302-04	Solid	23-Jul-2019 12:15	23-Jul-2019 16:25
B-1:8	19G0302-05	Solid	23-Jul-2019 12:25	23-Jul-2019 16:25
Trip Blank	19G0302-06	Water	23-Jul-2019 09:15	23-Jul-2019 16:25



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received July 23, 2019 under ARI work order 19G0302. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Volatiles - EPA Method SW8260C

The samples were analyzed within the recommended holding times.

The total solids percent is based on an assumed 100% solids. This can bias the reporting limits low.

The solid samples were reanalyzed at medium levels due to the Trichloroethene concentrations exceeding the upper calibration range. The initial analyses have been flagged with "E" qualifiers.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits.

The LCS/LCSD percent recoveries and RPD were within control limits.

Volatiles - EPA Method 8260C-SIM (Selected Ion Monitoring)

The samples were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits.

The LCS/LCSD percent recoveries and RPD were within control limits.



WORK ORDER

19G0302

Client: Shannon & Wilson, Inc
Project: 8801 E Marginal Way S

Project Manager: Amanda Volgardsen
Project Number: 103485

Report To:
Shannon & Wilson, Inc
Joseph Sawdey
400 N 34th St., Suite 100
Seattle, WA 98103-8636
Phone: 206-632-8020
Fax: -

Invoice To:
Shannon & Wilson, Inc
Meg Strong
400 N 34th St., Suite 100
Seattle, WA 98103-8636
Phone : (206) 695-6787
Fax: -

Date Due: 07-Aug-2019 18:00 (10 day TAT)

Received By: Jacob Walter

Date Received: 23-Jul-2019 16:25

Logged In By: Erin I. Salle

Date Logged In: 24-Jul-2019 07:19

Samples Received at: 4.4°C

Intact, properly signed and dated custody seals attached to outside of cooler(s).....	No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out (in, signed, analyses requested, etc).....	Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....	Yes	All bottles sealed in individual plastic bags.....	No
All bottles arrived in good condition (unbroken).....	Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....	Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....	Yes	All VOC vials free of air bubbles.....	Yes
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....	No	Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARI.....	No		

Analysis	Due	TAT	Expires	Comments
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WORK ORDER

19G0302

Client: Shannon & Wilson, Inc
Project: 8801 E Marginal Way S

Project Manager: Amanda Volgardsen
Project Number: 103485

Analysis	Due	TAT	Expires	Comments
19G0302-01 RGW-01 [Water] Sampled 23-Jul-2019 09:15 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Amber, 40 mL, HCL B = VOA Vial, Amber, 40 mL, HCL C = VOA Vial, Amber, 40 mL, HCL</i>				
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 09:15	
19G0302-02 RGW-02 [Water] Sampled 23-Jul-2019 10:15 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Amber, 40 mL, HCL B = VOA Vial, Amber, 40 mL, HCL C = VOA Vial, Amber, 40 mL, HCL</i>				
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 10:15	
19G0302-03 RGW-03 [Water] Sampled 23-Jul-2019 11:20 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Amber, 40 mL, HCL B = VOA Vial, Amber, 40 mL, HCL C = VOA Vial, Amber, 40 mL, HCL</i>				
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 11:20	
19G0302-04 B-1:4 [Solid] Sampled 23-Jul-2019 12:15 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Clear, 40 mL, MeOH B = VOA Vial, Clear, 40 mL, NaHSO4 C = VOA Vial, Clear, 40 mL, NaHSO4</i>				
Solids, Total, Dried at 103 -105 °C, Soli	07-Aug-2019 15:00	10	20-Aug-2019 12:15	
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 12:15	
19G0302-05 B-1:8 [Solid] Sampled 23-Jul-2019 12:25 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Clear, 40 mL, MeOH B = VOA Vial, Clear, 40 mL, NaHSO4 C = VOA Vial, Clear, 40 mL, NaHSO4</i>				
Solids, Total, Dried at 103 -105 °C, Soli	07-Aug-2019 15:00	10	20-Aug-2019 12:25	
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 12:25	
19G0302-06 Trip Blank [Water] Sampled 23-Jul-2019 09:15 (GMT-08:00) Pacific Time (US & Canada)				
<i>A = VOA Vial, Amber, 40 mL, HCL B = VOA Vial, Amber, 40 mL, HCL</i>				
8260C VOA	07-Aug-2019 15:00	10	06-Aug-2019 09:15	

Reviewed By _____

Date _____



Cooler Receipt Form

ARI Client: Shannon & Wilson

Project Name: 8801 Remediation

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 19G0302

Tracking No: _____ (NA)

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1625 4.4°C

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO5206

Cooler Accepted by: JAL Date: 07/23/19 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
- Was sufficient ice used (if appropriate)? NA YES NO
- How were bottles sealed in plastic bags? Individually Grouped Not
- Did all bottles arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did the number of containers listed on COC match with the number of containers received? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO
- Date VOC Trip Blank was made at ARI: NA 7/16/19
- Were the sample(s) split by ARI? YES NO Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: L. All Date: 7/24/19 Time: 0719 Labels checked by: WJ

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-01
19G0302-01 (Water)

Volatile Organic Compounds

Method: EPA 8260C

Sampled: 07/23/2019 09:15

Instrument: NT3 Analyst: PKC

Analyzed: 07/24/2019 17:42

Sample Preparation:

Preparation Method: EPA 5030 (Purge and Trap)

Extract ID: 19G0302-01 A

Preparation Batch: BHG0569

Sample Size: 10 mL

Prepared: 24-Jul-2019

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,1-Dichloroethene	75-35-4	1	0.05	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.05	0.20	0.23	ug/L	
cis-1,2-Dichloroethene	156-59-2	1	0.04	0.20	1.36	ug/L	
Trichloroethene	79-01-6	1	0.05	0.20	0.35	ug/L	
Tetrachloroethene	127-18-4	1	0.05	0.20	ND	ug/L	U
<i>Surrogate: Dibromofluoromethane</i>					80-120 %	110	%
<i>Surrogate: 1,2-Dichloroethane-d4</i>					80-129 %	109	%
<i>Surrogate: Toluene-d8</i>					80-120 %	98.4	%
<i>Surrogate: 4-Bromofluorobenzene</i>					80-120 %	89.3	%



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-01
19G0302-01 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260C-SIM Sampled: 07/23/2019 09:15
Instrument: NT7 Analyst: PB Analyzed: 07/29/2019 16:05

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-01 B
Preparation Batch: BHG0680 Sample Size: 10 mL
Prepared: 29-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	5.01	20.0	1520	ng/L	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>80-129 %</i>	<i>117</i>	%	



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-02
19G0302-02 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 07/23/2019 10:15
Instrument: NT3 Analyst: PKC Analyzed: 07/24/2019 18:09

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-02 A
Preparation Batch: BHG0569 Sample Size: 10 mL
Prepared: 24-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,1-Dichloroethene	75-35-4	1	0.05	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.05	0.20	0.15	ug/L	J
cis-1,2-Dichloroethene	156-59-2	1	0.04	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.05	0.20	0.13	ug/L	J
Tetrachloroethene	127-18-4	1	0.05	0.20	ND	ug/L	U
<i>Surrogate: Dibromofluoromethane</i>					80-120 %	112	%
<i>Surrogate: 1,2-Dichloroethane-d4</i>					80-129 %	106	%
<i>Surrogate: Toluene-d8</i>					80-120 %	98.3	%
<i>Surrogate: 4-Bromofluorobenzene</i>					80-120 %	93.5	%



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-02
19G0302-02 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260C-SIM	Sampled: 07/23/2019 10:15
Instrument: NT7 Analyst: PB	Analyzed: 07/29/2019 16:31
Sample Preparation:	Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-02 C
	Preparation Batch: BHG0680 Sample Size: 10 mL
	Prepared: 29-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	5.01	20.0	74.5	ng/L	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				80-129 %	115	%	



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-03
19G0302-03 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 07/23/2019 11:20
Instrument: NT3 Analyst: PKC Analyzed: 07/24/2019 18:35

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-03 A
Preparation Batch: BHG0569 Sample Size: 10 mL
Prepared: 24-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,1-Dichloroethene	75-35-4	1	0.05	0.20	0.43	ug/L	
1,1-Dichloroethane	75-34-3	1	0.05	0.20	0.79	ug/L	
cis-1,2-Dichloroethene	156-59-2	1	0.04	0.20	0.61	ug/L	
Trichloroethene	79-01-6	1	0.05	0.20	0.28	ug/L	
Tetrachloroethene	127-18-4	1	0.05	0.20	ND	ug/L	U
<i>Surrogate: Dibromofluoromethane</i>					80-120 %	110	%
<i>Surrogate: 1,2-Dichloroethane-d4</i>					80-129 %	110	%
<i>Surrogate: Toluene-d8</i>					80-120 %	96.7	%
<i>Surrogate: 4-Bromofluorobenzene</i>					80-120 %	88.2	%



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

RGW-03
19G0302-03 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260C-SIM	Sampled: 07/23/2019 11:20
Instrument: NT7 Analyst: PB	Analyzed: 07/29/2019 16:56
Sample Preparation:	Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-03 B
	Preparation Batch: BHG0680 Sample Size: 10 mL
	Prepared: 29-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	5.01	20.0	235	ng/L	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>80-129 %</i>	<i>118</i>	%	



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Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

B-1:4
19G0302-04 (Solid)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 07/23/2019 12:15
Instrument: NT5 Analyst: PB Analyzed: 07/25/2019 17:14

Sample Preparation: Preparation Method: EPA 5035 (Sodium Bisulfate) Extract ID: 19G0302-04 C
Preparation Batch: BHG0619 Sample Size: 5.08 g (wet)
Prepared: 25-Jul-2019 Final Volume: 5 mL Dry Weight: 5.08 g
% Solids: 100.00

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Trichloroethene	79-01-6	1	0.21	0.98	762	ug/kg	E
<i>Surrogate: Toluene-d8</i>				77-120 %	107	%	

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) Extract ID: 19G0302-04 A
Preparation Batch: BHG0646 Sample Size: 4.836 g (wet)
Prepared: 25-Jul-2019 Final Volume: 5 mL Dry Weight: 4.84 g
% Solids: 100.00

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Trichloroethene	79-01-6	50	9.31	51.7	1150	ug/kg	
<i>Surrogate: Toluene-d8</i>				80-120 %	107	%	



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Reported:
30-Jul-2019 13:50

B-1:8
19G0302-05 (Solid)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 07/23/2019 12:25
Instrument: NT5 Analyst: PB Analyzed: 07/25/2019 17:36

Sample Preparation: Preparation Method: EPA 5035 (Sodium Bisulfate) Extract ID: 19G0302-05 B
Preparation Batch: BHG0619 Sample Size: 5.26 g (wet) Dry Weight: 5.26 g
Prepared: 25-Jul-2019 Final Volume: 5 mL % Solids: 100.00

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Trichloroethene	79-01-6	1	0.20	0.95	1010	ug/kg	E
<i>Surrogate: Toluene-d8</i>				77-120 %	108	%	

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) Extract ID: 19G0302-05 A
Preparation Batch: BHG0646 Sample Size: 5.25 g (wet) Dry Weight: 5.25 g
Prepared: 25-Jul-2019 Final Volume: 5 mL % Solids: 100.00

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Trichloroethene	79-01-6	50	8.57	47.6	4300	ug/kg	
<i>Surrogate: Toluene-d8</i>				80-120 %	108	%	



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Reported:
30-Jul-2019 13:50

Trip Blank
19G0302-06 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 07/23/2019 09:15
Instrument: NT3 Analyst: PKC Analyzed: 07/24/2019 17:15

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-06 A
Preparation Batch: BHG0569 Sample Size: 10 mL
Prepared: 24-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,1-Dichloroethene	75-35-4	1	0.05	0.20	ND	ug/L	U
1,1-Dichloroethane	75-34-3	1	0.05	0.20	ND	ug/L	U
cis-1,2-Dichloroethene	156-59-2	1	0.04	0.20	ND	ug/L	U
Trichloroethene	79-01-6	1	0.05	0.20	ND	ug/L	U
Tetrachloroethene	127-18-4	1	0.05	0.20	ND	ug/L	U
<i>Surrogate: Dibromofluoromethane</i>					80-120 %	107	%
<i>Surrogate: 1,2-Dichloroethane-d4</i>					80-129 %	104	%
<i>Surrogate: Toluene-d8</i>					80-120 %	96.6	%
<i>Surrogate: 4-Bromofluorobenzene</i>					80-120 %	93.2	%



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Reported:
30-Jul-2019 13:50

Trip Blank
19G0302-06 (Water)

Volatile Organic Compounds - SIM

Method: EPA 8260C-SIM	Sampled: 07/23/2019 09:15
Instrument: NT7 Analyst: PB	Analyzed: 07/29/2019 17:22
Sample Preparation:	Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 19G0302-06 B
	Preparation Batch: BHG0680 Sample Size: 10 mL
	Prepared: 29-Jul-2019 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl chloride	75-01-4	1	5.01	20.0	ND	ng/L	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>				80-129 %	117	%	



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Reported:
30-Jul-2019 13:50

Volatile Organic Compounds - Quality Control

Batch BHG0569 - EPA 5030 (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0569-BLK1)											
						Prepared: 24-Jul-2019 Analyzed: 24-Jul-2019 12:34					
1,1-Dichloroethene	ND	0.05	0.20	ug/L							U
1,1-Dichloroethane	ND	0.05	0.20	ug/L							U
cis-1,2-Dichloroethene	ND	0.04	0.20	ug/L							U
Trichloroethene	ND	0.05	0.20	ug/L							U
Tetrachloroethene	ND	0.05	0.20	ug/L							U
Surrogate: Dibromofluoromethane	5.04			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichloroethane-d4	5.11			ug/L	5.00		102	80-129			
Surrogate: Toluene-d8	5.05			ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	4.80			ug/L	5.00		96.1	80-120			
LCS (BHG0569-BS1)											
						Prepared: 24-Jul-2019 Analyzed: 24-Jul-2019 10:21					
1,1-Dichloroethene	10.5	0.05	0.20	ug/L	10.0		105	69-135			
1,1-Dichloroethane	10.6	0.05	0.20	ug/L	10.0		106	76-124			
cis-1,2-Dichloroethene	11.1	0.04	0.20	ug/L	10.0		111	80-121			
Trichloroethene	11.3	0.05	0.20	ug/L	10.0		113	80-120			
Tetrachloroethene	11.5	0.05	0.20	ug/L	10.0		115	80-120			
Surrogate: Dibromofluoromethane	5.04			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichloroethane-d4	4.57			ug/L	5.00		91.4	80-129			
Surrogate: Toluene-d8	5.17			ug/L	5.00		103	80-120			
Surrogate: 4-Bromofluorobenzene	5.07			ug/L	5.00		101	80-120			
LCS Dup (BHG0569-BSD1)											
						Prepared: 24-Jul-2019 Analyzed: 24-Jul-2019 10:48					
1,1-Dichloroethene	9.87	0.05	0.20	ug/L	10.0		98.7	69-135	6.59	30	
1,1-Dichloroethane	10.2	0.05	0.20	ug/L	10.0		102	76-124	3.66	30	
cis-1,2-Dichloroethene	10.2	0.04	0.20	ug/L	10.0		102	80-121	8.48	30	
Trichloroethene	10.9	0.05	0.20	ug/L	10.0		109	80-120	3.70	30	
Tetrachloroethene	10.3	0.05	0.20	ug/L	10.0		103	80-120	11.20	30	
Surrogate: Dibromofluoromethane	4.72			ug/L	5.00		94.5	80-120			
Surrogate: 1,2-Dichloroethane-d4	4.58			ug/L	5.00		91.6	80-129			
Surrogate: Toluene-d8	5.14			ug/L	5.00		103	80-120			
Surrogate: 4-Bromofluorobenzene	5.06			ug/L	5.00		101	80-120			



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Project Number: 103485
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Reported:
30-Jul-2019 13:50

Volatile Organic Compounds - Quality Control

Batch BHG0619 - EPA 5035 (Sodium Bisulfate)

Instrument: NT5 Analyst: PB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0619-BLK1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 11:25						
Trichloroethene	ND	0.21	1.00	ug/kg							U
Surrogate: Toluene-d8	53.1			ug/kg	50.0	106	77-120				
LCS (BHG0619-BS1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 10:24						
Trichloroethene	50.2			ug/kg	50.0	100	80-120				
Surrogate: Toluene-d8	52.8			ug/kg	50.0	106	77-120				
LCS Dup (BHG0619-BSD1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 11:02						
Trichloroethene	50.5			ug/kg	50.0	101	80-120	0.71	30		
Surrogate: Toluene-d8	53.3			ug/kg	50.0	107	77-120				



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Project: 8801 E Marginal Way S
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Reported:
30-Jul-2019 13:50

Volatile Organic Compounds - Quality Control

Batch BHG0646 - EPA 5035 (Methanol Extraction)

Instrument: NT5 Analyst: PB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0646-BLK1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 11:25						
Trichloroethene	ND	9.00	50.0	ug/kg							U
Surrogate: Toluene-d8	53.1			ug/kg	50.0	106		80-120			
LCS (BHG0646-BS1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 10:24						
Trichloroethene	2510			ug/kg	2500	100		77-120			
Surrogate: Toluene-d8	52.8			ug/kg	50.0	106		80-120			
LCS Dup (BHG0646-BSD1)					Prepared: 25-Jul-2019 Analyzed: 25-Jul-2019 11:02						
Trichloroethene	2530			ug/kg	2500	101		77-120	0.71	30	
Surrogate: Toluene-d8	53.3			ug/kg	50.0	107		80-120			



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Reported:
30-Jul-2019 13:50

Volatile Organic Compounds - SIM - Quality Control

Batch BHG0680 - EPA 5030 (Purge and Trap)

Instrument: NT7 Analyst: PB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHG0680-BLK1)					Prepared: 29-Jul-2019 Analyzed: 29-Jul-2019 13:23						
Vinyl chloride	ND	5.01	20.0	ng/L							U
Surrogate: 1,2-Dichloroethane-d4	5800			ng/L	5000	116		80-129			
LCS (BHG0680-BS1)					Prepared: 29-Jul-2019 Analyzed: 29-Jul-2019 12:16						
Vinyl chloride	1910	5.01	20.0	ng/L	2000	95.3		76-120			
Surrogate: 1,2-Dichloroethane-d4	5230			ng/L	5000	105		80-129			
LCS Dup (BHG0680-BSD1)					Prepared: 29-Jul-2019 Analyzed: 29-Jul-2019 12:57						
Vinyl chloride	1840	5.01	20.0	ng/L	2000	92.2		76-120	3.36	30	
Surrogate: 1,2-Dichloroethane-d4	5230			ng/L	5000	105		80-129			



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Reported:
30-Jul-2019 13:50

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260C in Solid	
Chloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Vinyl Chloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Chloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Trichlorofluoromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acrolein	WADOE, DoD-ELAP, NELAP, CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acetone	WADOE, DoD-ELAP, NELAP, CALAP
1,1-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromoethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Iodomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Methylene Chloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acrylonitrile	WADOE, DoD-ELAP, NELAP, CALAP
Carbon Disulfide	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
trans-1,2-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Vinyl Acetate	WADOE, DoD-ELAP, NELAP, CALAP
1,1-Dichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
2-Butanone	WADOE, DoD-ELAP, NELAP, CALAP
2,2-Dichloropropane	WADOE, DoD-ELAP, NELAP, CALAP
cis-1,2-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Chloroform	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromochloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,1,1-Trichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,1-Dichloropropene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Carbon tetrachloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,2-Dichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Benzene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Trichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,2-Dichloropropane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromodichloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Dibromomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
2-Chloroethyl vinyl ether	WADOE, DoD-ELAP, NELAP
4-Methyl-2-Pentanone	WADOE, DoD-ELAP, NELAP, CALAP
cis-1,3-Dichloropropene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Toluene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC



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Project Number: 103485

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Reported:
30-Jul-2019 13:50

trans-1,3-Dichloropropene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Hexanone	WADOE,DoD-ELAP,NELAP,CALAP
1,1,2-Trichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,3-Dichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Tetrachloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dibromochloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2-Dibromoethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Chlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Ethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,1,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
m,p-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
o-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Xylenes, total	WADOE
Styrene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromoform	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,2,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,3-Trichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
trans-1,4-Dichloro 2-Butene	WADOE,DoD-ELAP,NELAP
n-Propylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
Bromobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Isopropyl Benzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
4-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
t-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,3,5-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
s-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	WADOE,DoD-ELAP,NELAP,CALAP
1,3-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,4-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
n-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dibromo-3-chloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,4-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Hexachloro-1,3-Butadiene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Naphthalene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,3-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dichlorodifluoromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Methyl tert-butyl Ether	WADOE,DoD-ELAP,NELAP,CALAP
n-Hexane	WADOE



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Project Number: 103485

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Reported:
30-Jul-2019 13:50

2-Pentanone	WADOE
Dibromofluoromethane	WADOE
4-Bromofluorobenzene	WADOE
Chloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Vinyl Chloride	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromomethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Chloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Trichlorofluoromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Acrolein	WADOE,DoD-ELAP,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Acetone	WADOE,DoD-ELAP,NELAP,CALAP
1,1-Dichloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromoethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Iodomethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Methylene Chloride	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Acrylonitrile	WADOE,DoD-ELAP,NELAP,CALAP
Carbon Disulfide	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
trans-1,2-Dichloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Vinyl Acetate	WADOE,DoD-ELAP,NELAP,CALAP
1,1-Dichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Butanone	WADOE,DoD-ELAP,NELAP,CALAP
2,2-Dichloropropane	WADOE,DoD-ELAP,NELAP,CALAP
cis-1,2-Dichloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Chloroform	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromochloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,1-Trichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1-Dichloropropene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Carbon tetrachloride	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2-Dichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Benzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Trichloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2-Dichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromodichloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dibromomethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Chloroethyl vinyl ether	DoD-ELAP
4-Methyl-2-Pentanone	WADOE,DoD-ELAP,NELAP,CALAP
cis-1,3-Dichloropropene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Toluene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
trans-1,3-Dichloropropene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Hexanone	WADOE,DoD-ELAP,NELAP,CALAP



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Project: 8801 E Marginal Way S

Project Number: 103485

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Reported:

30-Jul-2019 13:50

1,1,2-Trichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,3-Dichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Tetrachloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dibromochloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2-Dibromoethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Chlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Ethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,1,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
m,p-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
o-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Styrene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromoform	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,2,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,3-Trichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
trans-1,4-Dichloro 2-Butene	WADOE,DoD-ELAP
n-Propylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
Bromobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Isopropyl Benzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
4-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
t-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,3,5-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
s-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	WADOE,DoD-ELAP,NELAP,CALAP
1,3-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,4-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
n-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dibromo-3-Chloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,4-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Hexachloro-1,3-Butadiene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Naphthalene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,3-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dichlorodifluoromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Methyl tert-butyl Ether	WADOE,DoD-ELAP,NELAP,CALAP
n-Hexane	WADOE

EPA 8260C in Water

Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
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Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103485
Project Manager: Joseph Sawdey

Reported:
30-Jul-2019 13:50

Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromoethane	DoD-ELAP,NELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE



Shannon & Wilson, Inc
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Project: 8801 E Marginal Way S

Project Number: 103485

Project Manager: Joseph Sawdey

Reported:

30-Jul-2019 13:50

1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP,WADOE
Bromoform	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Hexane	WADOE
2-Pentanone	WADOE

EPA 8260C-SIM in Water

Acrylonitrile	NELAP,CALAP,WADOE
Vinyl chloride	NELAP,CALAP,WADOE
1,1-Dichloroethene	NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	NELAP,CALAP,WADOE



Shannon & Wilson, Inc
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Reported:
30-Jul-2019 13:50

trans-1,2-Dichloroethene	NELAP,CALAP,WADOE
Trichloroethene	NELAP,CALAP,WADOE
Tetrachloroethene	NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	NELAP,CALAP,WADOE
1,2-Dichloroethane	NELAP,CALAP,WADOE
Benzene	NELAP,CALAP,WADOE

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



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30-Jul-2019 13:50

Notes and Definitions

- E The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
- J Estimated concentration value detected below the reporting limit.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



17 February 2020

Joseph Sawdey
Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle, WA 98103-8636

RE: 8801 E Marginal Way S

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)
20B0027

Associated SDG ID(s)
N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com

ARI Assigned Number: 20B0027	Turn-around Requested: Standard	Page: 1 of 1
ARI Client Company: Shannon & Wilson	Phone: (206) 695-6907	Date: 2/4/2020
Client Contact: Joe Sawday	No. of Coolers: 1	Ice Present? Yes
Client Project Name: 8801 Remediation	Cooler Temps: -6.9°C	

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments
					HVOCs by EPA 8260C	TCLP HVOCs	PH				
B-6:6-9	9/2018	—	Soil	1	X	X					
B-6:11-14	↓	↓	↓	↓	X	X					
B-6:20-25.5	↓	↓	↓	↓			X				

Comments/Special Instructions Soil Jars Frozen after sample collection.	Relinquished by: (Signature) [Signature]	Received by: (Signature) [Signature]	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: RYAN PETERSON	Printed Name: Jacob Walter	Printed Name:	Printed Name:
	Company: Shannon & Wilson	Company: ARI	Company:	Company:
	Date & Time: 2/4/2020 1100	Date & Time: 02/04/2020 1100	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-6: 6-9	20B0027-01	Solid	01-Sep-2018 00:00	04-Feb-2020 11:00
B-6: 11-14	20B0027-02	Solid	01-Sep-2018 00:00	04-Feb-2020 11:00



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received February 4, 2020 under ARI work order 20B0027. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Volatiles - EPA Method SW8260C/1311 TCLP

The samples were received outside of the 14 day recommended holding time and have been flagged with "H" qualifiers.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits.

The LCS/LCSD percent recoveries and RPD were within control limits.



Cooler Receipt Form

ARI Client: Shannon & Wilson

Project Name: 8801 Remediation

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20B0027

Tracking No: _____ (NA)

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1100 -6.9°C

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO506

Cooler Accepted by: JR Date: 2/4/2020 Time: 1100

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
- Was sufficient ice used (if appropriate)? NA YES NO
- How were bottles sealed in plastic bags? Individually Grouped Not
- Did all bottles arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did the number of containers listed on COC match with the number of containers received? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO
- Date VOC Trip Blank was made at ARI: _____ NA
- Were the sample(s) split by ARI? YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: G SLL Date: 2/4/2020 Time: 1131 Labels checked by: CS

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
/	B-6: 6-9		
/	B-6: 11-14		
/	B-6: 20-235		

Additional Notes, Discrepancies, & Resolutions:

No labels on containers, some identifiers on lids, + IDs written on bags jars came in, Samples arrived frozen.

By: G SLL Date: 2/4/2020



Shannon & Wilson, Inc
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Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

B-6: 6-9
20B0027-01 (Solid)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 09/01/2018 00:00
Instrument: NT5 Analyst: PB Analyzed: 02/06/2020 19:07

Sample Preparation: Preparation Method: No Prep - Volatiles Extract ID: 20B0027-01 A
Preparation Batch: BIB0124 Dry Weight: 3.50 g
Prepared: 02/06/2020 Final Volume: 5 g % Solids: 68.72

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.34	1.43	ND	ug/kg	H, U
1,1-Dichloroethene	75-35-4	1	0.48	1.43	ND	ug/kg	H, U
trans-1,2-Dichloroethene	156-60-5	1	0.38	1.43	ND	ug/kg	H, U
1,1-Dichloroethane	75-34-3	1	0.29	1.43	ND	ug/kg	H, U
cis-1,2-Dichloroethene	156-59-2	1	0.34	1.43	ND	ug/kg	H, U
Trichloroethene	79-01-6	1	0.30	1.43	ND	ug/kg	H, U
Tetrachloroethene	127-18-4	1	0.37	1.43	ND	ug/kg	H, U
<i>Surrogate: Dibromofluoromethane</i>					80-120 %	110 %	H
<i>Surrogate: 1,2-Dichloroethane-d4</i>					80-149 %	109 %	H
<i>Surrogate: Toluene-d8</i>					77-120 %	98.9 %	H
<i>Surrogate: 4-Bromofluorobenzene</i>					80-120 %	99.5 %	H
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					80-120 %	101 %	H



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Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

B-6: 6-9
20B0027-01 (Solid)

TCLP Volatile Organic Compounds

Method: EPA 8260C Sampled: 09/01/2018 00:00
Instrument: NT2 Analyst: PKC Analyzed: 02/14/2020 11:59

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20B0027-01 A 01
Preparation Batch: BIB0361 Sample Size: 1 mL
Prepared: 02/14/2020 Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	2.00	ND	ug/L	H, U
1,1-Dichloroethene	75-35-4	1	2.00	ND	ug/L	H, U
2-Butanone	78-93-3	1	50.0	ND	ug/L	H, U
Chloroform	67-66-3	1	2.00	ND	ug/L	H, U
Carbon tetrachloride	56-23-5	1	2.00	ND	ug/L	H, U
1,2-Dichloroethane	107-06-2	1	2.00	ND	ug/L	H, U
Benzene	71-43-2	1	2.00	ND	ug/L	H, U
Trichloroethene	79-01-6	1	2.00	ND	ug/L	H, U
Tetrachloroethene	127-18-4	1	2.00	ND	ug/L	H, U
Chlorobenzene	108-90-7	1	2.00	ND	ug/L	H, U
1,4-Dichlorobenzene	106-46-7	1	2.00	ND	ug/L	H, U
<i>Surrogate: 1,2-Dichloroethane-d4</i>			80-129 %	113	%	H
<i>Surrogate: Toluene-d8</i>			80-120 %	99.6	%	H
<i>Surrogate: 4-Bromofluorobenzene</i>			80-120 %	89.4	%	H
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			80-120 %	100	%	H



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Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

B-6: 11-14
20B0027-02 (Solid)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 09/01/2018 00:00
Instrument: NT5 Analyst: PB Analyzed: 02/06/2020 19:29
Sample Preparation: Preparation Method: No Prep - Volatiles Extract ID: 20B0027-02 A
Preparation Batch: BIB0124 Dry Weight: 4.29 g
Prepared: 02/06/2020 Final Volume: 5 g % Solids: 82.26

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	0.27	1.16	ND	ug/kg	H, U
1,1-Dichloroethene	75-35-4	1	0.39	1.16	ND	ug/kg	H, U
trans-1,2-Dichloroethene	156-60-5	1	0.31	1.16	ND	ug/kg	H, U
1,1-Dichloroethane	75-34-3	1	0.24	1.16	ND	ug/kg	H, U
cis-1,2-Dichloroethene	156-59-2	1	0.28	1.16	ND	ug/kg	H, U
Trichloroethene	79-01-6	1	0.25	1.16	ND	ug/kg	H, U
Tetrachloroethene	127-18-4	1	0.30	1.16	ND	ug/kg	H, U
<i>Surrogate: Dibromofluoromethane</i>				<i>80-120 %</i>	<i>108</i>	<i>%</i>	<i>H</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>80-149 %</i>	<i>110</i>	<i>%</i>	<i>H</i>
<i>Surrogate: Toluene-d8</i>				<i>77-120 %</i>	<i>98.7</i>	<i>%</i>	<i>H</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>80-120 %</i>	<i>99.4</i>	<i>%</i>	<i>H</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>80-120 %</i>	<i>102</i>	<i>%</i>	<i>H</i>



Shannon & Wilson, Inc
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Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

B-6: 11-14
20B0027-02 (Solid)

TCLP Volatile Organic Compounds

Method: EPA 8260C

Sampled: 09/01/2018 00:00

Instrument: NT2 Analyst: PKC

Analyzed: 02/14/2020 12:22

Sample Preparation:

Preparation Method: EPA 5030 (Purge and Trap)

Extract ID: 20B0027-02 A 01

Preparation Batch: BIB0361

Sample Size: 1 mL

Prepared: 02/14/2020

Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Vinyl Chloride	75-01-4	1	2.00	ND	ug/L	H, U
1,1-Dichloroethene	75-35-4	1	2.00	ND	ug/L	H, U
2-Butanone	78-93-3	1	50.0	ND	ug/L	H, U
Chloroform	67-66-3	1	2.00	ND	ug/L	H, U
Carbon tetrachloride	56-23-5	1	2.00	ND	ug/L	H, U
1,2-Dichloroethane	107-06-2	1	2.00	ND	ug/L	H, U
Benzene	71-43-2	1	2.00	ND	ug/L	H, U
Trichloroethene	79-01-6	1	2.00	ND	ug/L	H, U
Tetrachloroethene	127-18-4	1	2.00	ND	ug/L	H, U
Chlorobenzene	108-90-7	1	2.00	ND	ug/L	H, U
1,4-Dichlorobenzene	106-46-7	1	2.00	ND	ug/L	H, U
<i>Surrogate: 1,2-Dichloroethane-d4</i>			80-129 %	114	%	H
<i>Surrogate: Toluene-d8</i>			80-120 %	97.6	%	H
<i>Surrogate: 4-Bromofluorobenzene</i>			80-120 %	93.1	%	H
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>			80-120 %	99.2	%	H



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

Volatile Organic Compounds - Quality Control

Batch BIB0124 - No Prep - Volatiles

Instrument: NT5 Analyst: PB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIB0124-BLK1)											
						Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 13:09					
Vinyl Chloride	ND	0.24	1.00	ug/kg							U
1,1-Dichloroethene	ND	0.34	1.00	ug/kg							U
trans-1,2-Dichloroethene	ND	0.27	1.00	ug/kg							U
1,1-Dichloroethane	ND	0.20	1.00	ug/kg							U
cis-1,2-Dichloroethene	ND	0.24	1.00	ug/kg							U
Trichloroethene	ND	0.21	1.00	ug/kg							U
Tetrachloroethene	ND	0.26	1.00	ug/kg							U
<i>Surrogate: Dibromofluoromethane</i>	50.4			ug/kg	50.0	101		80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.5			ug/kg	50.0	94.9		80-149			
<i>Surrogate: Toluene-d8</i>	48.0			ug/kg	50.0	96.0		77-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.2			ug/kg	50.0	98.3		80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	50.7			ug/kg	50.0	101		80-120			
LCS (BIB0124-BS1)											
						Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 12:08					
Vinyl Chloride	53.0			ug/kg	50.0	106		74-135			
1,1-Dichloroethene	49.7			ug/kg	50.0	99.5		77-134			
trans-1,2-Dichloroethene	50.5			ug/kg	50.0	101		79-130			
1,1-Dichloroethane	51.8			ug/kg	50.0	104		80-126			
cis-1,2-Dichloroethene	51.5			ug/kg	50.0	103		80-125			
Trichloroethene	50.8			ug/kg	50.0	102		80-120			
Tetrachloroethene	50.4			ug/kg	50.0	101		74-124			
<i>Surrogate: Dibromofluoromethane</i>	51.0			ug/kg	50.0	102		80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.5			ug/kg	50.0	99.1		80-149			
<i>Surrogate: Toluene-d8</i>	49.0			ug/kg	50.0	97.9		77-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3			ug/kg	50.0	98.6		80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	50.8			ug/kg	50.0	102		80-120			
LCS Dup (BIB0124-BSD1)											
						Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 12:48					
Vinyl Chloride	53.8			ug/kg	50.0	108		74-135	1.44	30	
1,1-Dichloroethene	51.6			ug/kg	50.0	103		77-134	3.60	30	
trans-1,2-Dichloroethene	51.1			ug/kg	50.0	102		79-130	1.20	30	
1,1-Dichloroethane	50.1			ug/kg	50.0	100		80-126	3.37	30	
cis-1,2-Dichloroethene	50.2			ug/kg	50.0	100		80-125	2.55	30	
Trichloroethene	51.5			ug/kg	50.0	103		80-120	1.48	30	
Tetrachloroethene	53.6			ug/kg	50.0	107		74-124	6.07	30	



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Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

Volatile Organic Compounds - Quality Control

Batch BIB0124 - No Prep - Volatiles

Instrument: NT5 Analyst: PB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BIB0124-BSD1)					Prepared: 06-Feb-2020 Analyzed: 06-Feb-2020 12:48						
Surrogate: Dibromofluoromethane	49.8			ug/kg	50.0	99.5		80-120			
Surrogate: 1,2-Dichloroethane-d4	48.1			ug/kg	50.0	96.2		80-149			
Surrogate: Toluene-d8	48.8			ug/kg	50.0	97.7		77-120			
Surrogate: 4-Bromofluorobenzene	48.7			ug/kg	50.0	97.4		80-120			
Surrogate: 1,2-Dichlorobenzene-d4	50.5			ug/kg	50.0	101		80-120			



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Reported:
17-Feb-2020 11:35

TCLP Volatile Organic Compounds - Quality Control

Batch BIB0361 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIB0361-BLK1)										
					Prepared: 14-Feb-2020 Analyzed: 14-Feb-2020 11:36					
Vinyl Chloride	ND	0.200	ug/L							U
1,1-Dichloroethene	ND	0.200	ug/L							U
2-Butanone	ND	5.00	ug/L							U
Chloroform	ND	0.200	ug/L							U
Carbon tetrachloride	ND	0.200	ug/L							U
1,2-Dichloroethane	ND	0.200	ug/L							U
Benzene	ND	0.200	ug/L							U
Trichloroethene	ND	0.200	ug/L							U
Tetrachloroethene	ND	0.200	ug/L							U
Chlorobenzene	ND	0.200	ug/L							U
1,4-Dichlorobenzene	ND	0.200	ug/L							U
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.59		ug/L	5.00		112	80-129			
<i>Surrogate: Toluene-d8</i>	4.94		ug/L	5.00		98.8	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.51		ug/L	5.00		90.2	80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	5.01		ug/L	5.00		100	80-120			
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LCS (BIB0361-BS1)										
					Prepared: 14-Feb-2020 Analyzed: 14-Feb-2020 10:35					
Vinyl Chloride	10.8	0.200	ug/L	10.0		108	70-130			
1,1-Dichloroethene	11.3	0.200	ug/L	10.0		113	76-123			
2-Butanone	52.7	5.00	ug/L	50.0		105	67-134			
Chloroform	10.5	0.200	ug/L	10.0		105	77-123			
Carbon tetrachloride	9.41	0.200	ug/L	10.0		94.1	69-139			
1,2-Dichloroethane	10.6	0.200	ug/L	10.0		106	71-125			
Benzene	10.1	0.200	ug/L	10.0		101	80-120			
Trichloroethene	10.0	0.200	ug/L	10.0		100	80-120			
Tetrachloroethene	10.2	0.200	ug/L	10.0		102	80-120			
Chlorobenzene	10.4	0.200	ug/L	10.0		104	80-120			
1,4-Dichlorobenzene	10.4	0.200	ug/L	10.0		104	77-120			
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.45		ug/L	5.00		109	80-129			
<i>Surrogate: Toluene-d8</i>	5.00		ug/L	5.00		100	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.81		ug/L	5.00		96.2	80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	5.02		ug/L	5.00		100	80-120			
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LCS Dup (BIB0361-BSD1)										
					Prepared: 14-Feb-2020 Analyzed: 14-Feb-2020 10:55					
Vinyl Chloride	10.5	0.200	ug/L	10.0		105	70-130	2.60	30	



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TCLP Volatile Organic Compounds - Quality Control

Batch BIB0361 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BIB0361-BSD1)										
					Prepared: 14-Feb-2020 Analyzed: 14-Feb-2020 10:55					
1,1-Dichloroethene	11.1	0.200	ug/L	10.0		111	76-123	1.67	30	
2-Butanone	52.8	5.00	ug/L	50.0		106	67-134	0.16	30	
Chloroform	10.4	0.200	ug/L	10.0		104	77-123	0.38	30	
Carbon tetrachloride	9.67	0.200	ug/L	10.0		96.7	69-139	2.64	30	
1,2-Dichloroethane	10.6	0.200	ug/L	10.0		106	71-125	0.01	30	
Benzene	10.0	0.200	ug/L	10.0		100	80-120	0.67	30	
Trichloroethene	9.99	0.200	ug/L	10.0		99.9	80-120	0.04	30	
Tetrachloroethene	9.73	0.200	ug/L	10.0		97.3	80-120	5.13	30	
Chlorobenzene	10.1	0.200	ug/L	10.0		101	80-120	3.25	30	
1,4-Dichlorobenzene	9.63	0.200	ug/L	10.0		96.3	77-120	7.48	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.47		ug/L	5.00		109	80-129			
<i>Surrogate: Toluene-d8</i>	5.03		ug/L	5.00		101	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.73		ug/L	5.00		94.5	80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	4.94		ug/L	5.00		98.7	80-120			

Matrix Spike (BIB0361-MS1)										
			Source: 20B0027-01		Prepared: 14-Feb-2020 Analyzed: 14-Feb-2020 18:48					
Vinyl Chloride	96.3	2.00	ug/L	100	ND	96.3	70-130			
1,1-Dichloroethene	99.2	2.00	ug/L	100	ND	99.2	76-123			
2-Butanone	449	50.0	ug/L	500	ND	89.7	67-134			
Chloroform	92.6	2.00	ug/L	100	ND	92.6	77-123			
Carbon tetrachloride	81.8	2.00	ug/L	100	ND	81.8	69-129			
1,2-Dichloroethane	92.3	2.00	ug/L	100	ND	92.3	71-125			
Benzene	88.1	2.00	ug/L	100	ND	88.1	80-120			
Trichloroethene	88.5	2.00	ug/L	100	ND	88.5	80-120			
Tetrachloroethene	88.6	2.00	ug/L	100	ND	88.6	80-120			
Chlorobenzene	90.5	2.00	ug/L	100	ND	90.5	80-120			
1,4-Dichlorobenzene	93.1	2.00	ug/L	100	ND	93.1	77-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.63		ug/L	5.00	5.63	113	80-129			
<i>Surrogate: Toluene-d8</i>	4.95		ug/L	5.00	4.98	99.0	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.72		ug/L	5.00	4.47	94.4	80-120			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	5.05		ug/L	5.00	5.01	101	80-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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Certified Analyses included in this Report

Analyte	Certifications
EPA 8260C in Solid	
Chloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Vinyl Chloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Chloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Trichlorofluoromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acrolein	WADOE, DoD-ELAP, NELAP, CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acetone	WADOE, DoD-ELAP, NELAP, CALAP
1,1-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromoethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Iodomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Methylene Chloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Acrylonitrile	WADOE, DoD-ELAP, NELAP, CALAP
Carbon Disulfide	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
trans-1,2-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Vinyl Acetate	WADOE, DoD-ELAP, NELAP, CALAP
1,1-Dichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
2-Butanone	WADOE, DoD-ELAP, NELAP, CALAP
2,2-Dichloropropane	WADOE, DoD-ELAP, NELAP, CALAP
cis-1,2-Dichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Chloroform	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromochloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,1,1-Trichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,1-Dichloropropene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Carbon tetrachloride	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,2-Dichloroethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Benzene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Trichloroethene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
1,2-Dichloropropane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Bromodichloromethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Dibromomethane	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
2-Chloroethyl vinyl ether	WADOE, DoD-ELAP, NELAP
4-Methyl-2-Pentanone	WADOE, DoD-ELAP, NELAP, CALAP
cis-1,3-Dichloropropene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC
Toluene	WADOE, DoD-ELAP, NELAP, CALAP, ADEC



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17-Feb-2020 11:35

trans-1,3-Dichloropropene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Hexanone	WADOE,DoD-ELAP,NELAP,CALAP
1,1,2-Trichloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,3-Dichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Tetrachloroethene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dibromochloromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2-Dibromoethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Chlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Ethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,1,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
m,p-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
o-Xylene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Xylenes, total	WADOE
Styrene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Bromoform	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,1,2,2-Tetrachloroethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,3-Trichloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
trans-1,4-Dichloro 2-Butene	WADOE,DoD-ELAP,NELAP
n-Propylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
Bromobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Isopropyl Benzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
2-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
4-Chlorotoluene	WADOE,DoD-ELAP,NELAP,CALAP
t-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,3,5-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
s-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	WADOE,DoD-ELAP,NELAP,CALAP
1,3-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,4-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
n-Butylbenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP
1,2-Dibromo-3-chloropropane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
1,2,4-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Hexachloro-1,3-Butadiene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Naphthalene	WADOE,DoD-ELAP,NELAP,CALAP
1,2,3-Trichlorobenzene	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Dichlorodifluoromethane	WADOE,DoD-ELAP,NELAP,CALAP,ADEC
Methyl tert-butyl Ether	WADOE,DoD-ELAP,NELAP,CALAP
n-Hexane	WADOE



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2-Pentanone	WADOE
Dibromofluoromethane	WADOE
4-Bromofluorobenzene	WADOE

EPA 8260C in Water

Chloromethane	DoD-ELAP,NELAP,CALAP,WADOE
Vinyl Chloride	DoD-ELAP,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,NELAP,CALAP,WADOE
Acetone	DoD-ELAP,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,NELAP,CALAP,WADOE
Bromoethane	DoD-ELAP,NELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,NELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,NELAP,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,NELAP,CALAP,WADOE
Trichloroethene	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,NELAP,CALAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,NELAP,CALAP,WADOE



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17-Feb-2020 11:35

trans-1,3-Dichloropropene	DoD-ELAP,NELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichloropropane	DoD-ELAP,NELAP,CALAP,WADOE
Tetrachloroethene	DoD-ELAP,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP,WADOE
Chlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Ethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,NELAP,CALAP,WADOE
o-Xylene	DoD-ELAP,NELAP,CALAP,WADOE
Xylenes, total	DoD-ELAP,NELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP,WADOE
Bromoform	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,NELAP,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,NELAP,CALAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,NELAP,CALAP,WADOE
Naphthalene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,NELAP,CALAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,NELAP,CALAP,WADOE
n-Hexane	DoD-ELAP,NELAP,CALAP,WADOE



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

2-Pentanone

DoD-ELAP,NELAP,CALAP,WADOE

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019



Shannon & Wilson, Inc
400 N 34th St., Suite 100
Seattle WA, 98103-8636

Project: 8801 E Marginal Way S
Project Number: 103425
Project Manager: Joseph Sawdey

Reported:
17-Feb-2020 11:35

Notes and Definitions

- * Flagged value is not within established control limits.
- E The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
- H Hold time violation - Hold time was exceeded.
- J Estimated concentration value detected below the reporting limit.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



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

Shannon & Wilson

Meg Strong
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: 8801

Work Order Number: 2103041

March 17, 2021

Attention Meg Strong:

Fremont Analytical, Inc. received 3 sample(s) on 3/2/2021 for the analyses presented in the following report.

Mercury by EPA Method 7471
Metals (EPA 200.8) with TCLP Extraction (EPA 1311)
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B
Volatile Organic Compounds by EPA Method 8260D

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,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1



CLIENT: Shannon & Wilson
Project: 8801
Work Order: 2103041

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2103041-001	A7A8-WA	03/02/2021 3:28 PM	03/02/2021 5:14 PM
2103041-002	A4-WA	03/02/2021 3:38 PM	03/02/2021 5:14 PM
2103041-003	A5-WA	03/02/2021 3:48 AM	03/02/2021 5:14 PM

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

CLIENT: Shannon & Wilson

Project: 8801

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.

3/17/21, Revision 1: Includes analysis of TCLP lead requested by the client.

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 Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

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



Analytical Report

Work Order: 2103041
Date Reported: 3/17/2021

Client: Shannon & Wilson

Collection Date: 3/2/2021 3:28:00 PM

Project: 8801

Lab ID: 2103041-001

Matrix: Soil

Client Sample ID: A7A8-WA

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

Batch ID: 31554 Analyst: SB

Aroclor 1016	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1221	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1232	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1242	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1248	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1254	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1260	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1262	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Aroclor 1268	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Total PCBs	ND	0.0100		mg/Kg-dry	1	3/4/2021 10:44:56 PM
Surr: Decachlorobiphenyl	81.0	9.23 - 163		%Rec	1	3/4/2021 10:44:56 PM
Surr: Tetrachloro-m-xylene	86.3	12 - 153		%Rec	1	3/4/2021 10:44:56 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 31566 Analyst: SB

Naphthalene	37.3	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
2-Methylnaphthalene	64.5	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
1-Methylnaphthalene	55.9	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Acenaphthylene	28.9	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Acenaphthene	24.0	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Fluorene	36.6	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Phenanthrene	233	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Anthracene	ND	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Fluoranthene	320	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Pyrene	319	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Benz(a)anthracene	119	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Chrysene	103	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Benzo(b)fluoranthene	84.1	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Benzo(k)fluoranthene	107	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Benzo(a)pyrene	152	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Indeno(1,2,3-cd)pyrene	68.1	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Dibenz(a,h)anthracene	ND	40.4		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Benzo(g,h,i)perylene	71.6	20.2		µg/Kg-dry	1	3/5/2021 8:04:53 PM
Surr: 2-Fluorobiphenyl	69.6	19 - 135		%Rec	1	3/5/2021 8:04:53 PM
Surr: Terphenyl-d14 (surr)	78.2	42.9 - 156		%Rec	1	3/5/2021 8:04:53 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569 Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
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Analytical Report

Work Order: 2103041
Date Reported: 3/17/2021

Client: Shannon & Wilson

Collection Date: 3/2/2021 3:28:00 PM

Project: 8801

Lab ID: 2103041-001

Matrix: Soil

Client Sample ID: A7A8-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Chloromethane	ND	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Vinyl chloride	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Bromomethane	ND	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Trichlorofluoromethane (CFC-11)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Chloroethane	ND	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1-Dichloroethene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Methylene chloride	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
trans-1,2-Dichloroethene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Methyl tert-butyl ether (MTBE)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1-Dichloroethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
cis-1,2-Dichloroethene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Chloroform	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1-Dichloropropene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Carbon tetrachloride	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2-Dichloroethane (EDC)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Benzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Trichloroethene (TCE)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2-Dichloropropane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Bromodichloromethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Dibromomethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
cis-1,3-Dichloropropene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Toluene	0.0569	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
trans-1,3-Dichloropropylene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1,2-Trichloroethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,3-Dichloropropane	ND	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Tetrachloroethene (PCE)	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Dibromochloromethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2-Dibromoethane (EDB)	ND	0.00698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Chlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1,1,2-Tetrachloroethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Ethylbenzene	0.356	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
m,p-Xylene	2.33	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
o-Xylene	0.180	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Styrene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Isopropylbenzene	0.327	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Bromoform	ND	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,1,2,2-Tetrachloroethane	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
n-Propylbenzene	1.05	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:28:00 PM

Project: 8801

Lab ID: 2103041-001

Matrix: Soil

Client Sample ID: A7A8-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Bromobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,3,5-Trimethylbenzene	4.20	0.558	D	mg/Kg-dry	20	3/8/2021 10:29:40 AM
2-Chlorotoluene	ND	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
4-Chlorotoluene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
tert-Butylbenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2,3-Trichloropropane	ND	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2,4-Trichlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
sec-Butylbenzene	0.346	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
4-Isopropyltoluene	0.558	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,3-Dichlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,4-Dichlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
n-Butylbenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2-Dichlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2-Dibromo-3-chloropropane	ND	0.698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2,4-Trimethylbenzene	10.1	0.558	D	mg/Kg-dry	20	3/8/2021 10:29:40 AM
Hexachloro-1,3-butadiene	ND	0.0349		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Naphthalene	0.130	0.0698		mg/Kg-dry	1	3/5/2021 1:52:07 PM
1,2,3-Trichlorobenzene	ND	0.0279		mg/Kg-dry	1	3/5/2021 1:52:07 PM
Surr: Dibromofluoromethane	100	82.3 - 112		%Rec	1	3/5/2021 1:52:07 PM
Surr: Toluene-d8	95.4	90.7 - 109		%Rec	1	3/5/2021 1:52:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	88.4 - 109		%Rec	1	3/5/2021 1:52:07 PM

Mercury by EPA Method 7471

Batch ID: 31550

Analyst: LB

Mercury	ND	0.262		mg/Kg-dry	1	3/4/2021 2:42:38 PM
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Total Metals by EPA Method 6020B

Batch ID: 31552

Analyst: EH

Arsenic	2.96	0.110		mg/Kg-dry	1	3/9/2021 1:49:58 PM
Barium	35.8	0.550		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Cadmium	0.270	0.183		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Chromium	15.8	0.366		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Copper	12.5	0.916		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Lead	5.37	0.183		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Nickel	7.81	0.458		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Selenium	0.865	0.183		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Silver	ND	0.137		mg/Kg-dry	1	3/6/2021 12:16:46 AM
Zinc	41.3	1.60		mg/Kg-dry	1	3/6/2021 12:16:46 AM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:28:00 PM

Project: 8801

Lab ID: 2103041-001

Matrix: Soil

Client Sample ID: A7A8-WA

Analyses

Result

RL

Qual

Units

DF

Date Analyzed

Sample Moisture (Percent Moisture)

Batch ID: R65642

Analyst: mch

Percent Moisture

14.7

wt%

1

3/4/2021 1:47:55 PM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:38:00 PM

Project: 8801

Lab ID: 2103041-002

Matrix: Soil

Client Sample ID: A4-WA

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

Batch ID: 31554 Analyst: SB

Aroclor 1016	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1221	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1232	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1242	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1248	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1254	0.0294	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1260	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1262	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Aroclor 1268	ND	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Total PCBs	0.0294	0.0102		mg/Kg-dry	1	3/4/2021 10:54:38 PM
Surr: Decachlorobiphenyl	83.8	9.23 - 163		%Rec	1	3/4/2021 10:54:38 PM
Surr: Tetrachloro-m-xylene	112	12 - 153		%Rec	1	3/4/2021 10:54:38 PM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 31566 Analyst: SB

Naphthalene	25.5	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
2-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
1-Methylnaphthalene	ND	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Acenaphthylene	ND	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Acenaphthene	138	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Fluorene	278	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Phenanthrene	844	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Anthracene	253	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Fluoranthene	1,290	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Pyrene	993	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Benz(a)anthracene	470	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Chrysene	362	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Benzo(b)fluoranthene	231	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Benzo(k)fluoranthene	250	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Benzo(a)pyrene	326	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Indeno(1,2,3-cd)pyrene	93.1	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Dibenz(a,h)anthracene	47.2	42.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Benzo(g,h,i)perylene	86.1	21.0		µg/Kg-dry	1	3/5/2021 8:26:06 PM
Surr: 2-Fluorobiphenyl	64.9	19 - 135		%Rec	1	3/5/2021 8:26:06 PM
Surr: Terphenyl-d14 (surr)	73.6	42.9 - 156		%Rec	1	3/5/2021 8:26:06 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569 Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	0.0211	Q	mg/Kg-dry	1	3/8/2021 9:59:19 AM
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Client: Shannon & Wilson

Collection Date: 3/2/2021 3:38:00 PM

Project: 8801

Lab ID: 2103041-002

Matrix: Soil

Client Sample ID: A4-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Chloromethane	ND	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Vinyl chloride	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Bromomethane	ND	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Trichlorofluoromethane (CFC-11)	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Chloroethane	ND	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1-Dichloroethene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Methylene chloride	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
trans-1,2-Dichloroethene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Methyl tert-butyl ether (MTBE)	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1-Dichloroethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
cis-1,2-Dichloroethene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Chloroform	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1,1-Trichloroethane (TCA)	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1-Dichloropropene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Carbon tetrachloride	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2-Dichloroethane (EDC)	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Benzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Trichloroethene (TCE)	0.0235	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2-Dichloropropane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Bromodichloromethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Dibromomethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
cis-1,3-Dichloropropene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Toluene	0.0758	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
trans-1,3-Dichloropropylene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1,2-Trichloroethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,3-Dichloropropane	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Tetrachloroethene (PCE)	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Dibromochloromethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2-Dibromoethane (EDB)	ND	0.00527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Chlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1,1,2-Tetrachloroethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Ethylbenzene	0.0565	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
m,p-Xylene	0.387	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
o-Xylene	0.0750	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Styrene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Isopropylbenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Bromoform	ND	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,1,2,2-Tetrachloroethane	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
n-Propylbenzene	0.0264	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:38:00 PM

Project: 8801

Lab ID: 2103041-002

Matrix: Soil

Client Sample ID: A4-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Bromobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,3,5-Trimethylbenzene	0.104	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
2-Chlorotoluene	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
4-Chlorotoluene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
tert-Butylbenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2,3-Trichloropropane	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2,4-Trichlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
sec-Butylbenzene	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
4-Isopropyltoluene	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,3-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,4-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
n-Butylbenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2-Dibromo-3-chloropropane	ND	0.527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2,4-Trimethylbenzene	0.288	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Hexachloro-1,3-butadiene	ND	0.0264		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Naphthalene	ND	0.0527		mg/Kg-dry	1	3/8/2021 9:59:19 AM
1,2,3-Trichlorobenzene	ND	0.0211		mg/Kg-dry	1	3/8/2021 9:59:19 AM
Surr: Dibromofluoromethane	98.6	82.3 - 112		%Rec	1	3/8/2021 9:59:19 AM
Surr: Toluene-d8	101	90.7 - 109		%Rec	1	3/8/2021 9:59:19 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	88.4 - 109		%Rec	1	3/8/2021 9:59:19 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Mercury by EPA Method 7471

Batch ID: 31550

Analyst: LB

Mercury	0.436	0.278		mg/Kg-dry	1	3/4/2021 2:51:04 PM
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Total Metals by EPA Method 6020B

Batch ID: 31552

Analyst: EH

Arsenic	4.11	0.104		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Barium	43.5	0.520		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Cadmium	ND	0.173		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Chromium	12.0	0.346		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Copper	788	8.66	D	mg/Kg-dry	10	3/9/2021 1:55:32 PM
Lead	13.1	0.173		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Nickel	11.0	0.433		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Selenium	0.945	0.173		mg/Kg-dry	1	3/6/2021 12:22:19 AM
Silver	ND	0.130		mg/Kg-dry	1	3/6/2021 12:22:19 AM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:38:00 PM

Project: 8801

Lab ID: 2103041-002

Matrix: Soil

Client Sample ID: A4-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 31552 Analyst: EH

Zinc	46.0	1.52		mg/Kg-dry	1	3/6/2021 12:22:19 AM
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Sample Moisture (Percent Moisture)

Batch ID: R65642 Analyst: mch

Percent Moisture	11.9			wt%	1	3/4/2021 1:47:55 PM
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Client: Shannon & Wilson

Collection Date: 3/2/2021 3:48:00 AM

Project: 8801

Lab ID: 2103041-003

Matrix: Soil

Client Sample ID: A5-WA

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

Batch ID: 31567

Analyst: SB

Aroclor 1016	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1221	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1232	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1242	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1248	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1254	0.122	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1260	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1262	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Aroclor 1268	ND	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Total PCBs	0.122	0.0123		mg/Kg-dry	1	3/9/2021 9:11:27 AM
Surr: Decachlorobiphenyl	90.8	9.23 - 163		%Rec	1	3/9/2021 9:11:27 AM
Surr: Tetrachloro-m-xylene	98.1	12 - 153		%Rec	1	3/9/2021 9:11:27 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 31566

Analyst: SB

Naphthalene	ND	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
2-Methylnaphthalene	25.3	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
1-Methylnaphthalene	33.4	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Acenaphthylene	ND	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Acenaphthene	91.3	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Fluorene	66.8	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Phenanthrene	351	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Anthracene	129	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Fluoranthene	381	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Pyrene	512	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Benz(a)anthracene	298	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Chrysene	258	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Benzo(b)fluoranthene	134	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Benzo(k)fluoranthene	129	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Benzo(a)pyrene	242	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Indeno(1,2,3-cd)pyrene	66.6	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Dibenz(a,h)anthracene	ND	42.7		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Benzo(g,h,i)perylene	76.8	21.3		µg/Kg-dry	1	3/5/2021 8:47:17 PM
Surr: 2-Fluorobiphenyl	79.8	19 - 135		%Rec	1	3/5/2021 8:47:17 PM
Surr: Terphenyl-d14 (surr)	90.4	42.9 - 156		%Rec	1	3/5/2021 8:47:17 PM

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
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Client: Shannon & Wilson

Collection Date: 3/2/2021 3:48:00 AM

Project: 8801

Lab ID: 2103041-003

Matrix: Soil

Client Sample ID: A5-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Chloromethane	ND	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Vinyl chloride	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Bromomethane	ND	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Trichlorofluoromethane (CFC-11)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Chloroethane	ND	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1-Dichloroethene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Methylene chloride	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
trans-1,2-Dichloroethene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1-Dichloroethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
cis-1,2-Dichloroethene	0.0595	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Chloroform	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1,1-Trichloroethane (TCA)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1-Dichloropropene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Carbon tetrachloride	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2-Dichloroethane (EDC)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Benzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Trichloroethene (TCE)	0.206	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2-Dichloropropane	0.0355	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Bromodichloromethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Dibromomethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
cis-1,3-Dichloropropene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Toluene	0.0517	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
trans-1,3-Dichloropropylene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1,2-Trichloroethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,3-Dichloropropane	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Tetrachloroethene (PCE)	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Dibromochloromethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2-Dibromoethane (EDB)	ND	0.00609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Chlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1,1,2-Tetrachloroethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Ethylbenzene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
m,p-Xylene	0.150	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
o-Xylene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Styrene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Isopropylbenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Bromoform	ND	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,1,2,2-Tetrachloroethane	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
n-Propylbenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:48:00 AM

Project: 8801

Lab ID: 2103041-003

Matrix: Soil

Client Sample ID: A5-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 31569

Analyst: CR

Bromobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,3,5-Trimethylbenzene	0.0320	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
2-Chlorotoluene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
4-Chlorotoluene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
tert-Butylbenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2,3-Trichloropropane	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2,4-Trichlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
sec-Butylbenzene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
4-Isopropyltoluene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,3-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,4-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
n-Butylbenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2-Dibromo-3-chloropropane	ND	0.609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2,4-Trimethylbenzene	0.0960	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Hexachloro-1,3-butadiene	ND	0.0304		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Naphthalene	ND	0.0609		mg/Kg-dry	1	3/5/2021 3:23:21 PM
1,2,3-Trichlorobenzene	ND	0.0243		mg/Kg-dry	1	3/5/2021 3:23:21 PM
Surr: Dibromofluoromethane	103	82.3 - 112		%Rec	1	3/5/2021 3:23:21 PM
Surr: Toluene-d8	86.3	90.7 - 109	S	%Rec	1	3/5/2021 3:23:21 PM
Surr: 1-Bromo-4-fluorobenzene	105	88.4 - 109		%Rec	1	3/5/2021 3:23:21 PM

NOTES:

S - Outlying surrogate recovery(ies) observed.

Mercury by EPA Method 7471

Batch ID: 31550

Analyst: LB

Mercury	0.320	0.303		mg/Kg-dry	1	3/4/2021 2:55:19 PM
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Total Metals by EPA Method 6020B

Batch ID: 31552

Analyst: EH

Arsenic	6.43	0.119		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Barium	206	0.596		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Cadmium	2.39	0.199		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Chromium	33.6	0.397		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Copper	210	0.993		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Lead	428	1.99	D	mg/Kg-dry	10	3/9/2021 2:01:06 PM
Nickel	20.5	0.496		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Selenium	1.29	0.199		mg/Kg-dry	1	3/6/2021 12:27:53 AM
Silver	0.652	0.149		mg/Kg-dry	1	3/6/2021 12:27:53 AM



Client: Shannon & Wilson

Collection Date: 3/2/2021 3:48:00 AM

Project: 8801

Lab ID: 2103041-003

Matrix: Soil

Client Sample ID: A5-WA

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 31552 Analyst: EH

Zinc	327	17.4	D	mg/Kg-dry	10	3/9/2021 2:01:06 PM
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Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Batch ID: 31676 Analyst: EH

Lead	1.23	0.200		mg/L	1	3/17/2021 2:17:21 PM
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Sample Moisture (Percent Moisture)

Batch ID: R65642 Analyst: mch

Percent Moisture	20.7			wt%	1	3/4/2021 1:47:55 PM
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Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: MB-31552	SampType: MBLK	Units: mg/Kg	Prep Date: 3/4/2021	RunNo: 65715							
Client ID: MBLKS	Batch ID: 31552		Analysis Date: 3/5/2021	SeqNo: 1322040							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.120									
Barium	ND	0.600									
Cadmium	ND	0.200									
Copper	ND	1.00									
Lead	ND	0.200									
Nickel	ND	0.500									
Selenium	ND	0.200									
Silver	ND	0.150									
Zinc	ND	1.75									

Sample ID: LCS-31552	SampType: LCS	Units: mg/Kg	Prep Date: 3/4/2021	RunNo: 65715							
Client ID: LCSS	Batch ID: 31552		Analysis Date: 3/5/2021	SeqNo: 1322041							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	43.7	0.120	50.00	0	87.5	80	120				
Barium	49.1	0.600	50.00	0	98.2	80	120				
Cadmium	2.49	0.200	2.500	0	99.7	80	120				
Copper	43.7	1.00	50.00	0	87.3	80	120				
Lead	25.6	0.200	25.00	0	102	80	120				
Nickel	43.3	0.500	50.00	0	86.6	80	120				
Selenium	4.80	0.200	5.000	0	96.0	80	120				
Silver	2.60	0.150	2.500	0	104	80	120				
Zinc	49.4	1.75	50.00	0	98.9	80	120				

Sample ID: 2103028-010AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/4/2021	RunNo: 65715							
Client ID: BATCH	Batch ID: 31552		Analysis Date: 3/5/2021	SeqNo: 1322045							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	42.0	0.133	55.48	4.278	68.0	75	125				S
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Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2103028-010AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 3/4/2021		RunNo: 65715			
Client ID: BATCH		Batch ID: 31552				Analysis Date: 3/5/2021		SeqNo: 1322045			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	79.0	0.666	55.48	46.97	57.8	75	125				S
Cadmium	2.15	0.222	2.774	0.06849	75.0	75	125				
Chromium	49.6	0.444	55.48	13.97	64.2	75	125				S
Copper	52.5	1.11	55.48	17.67	62.7	75	125				S
Lead	25.9	0.222	27.74	6.997	68.0	75	125				S
Nickel	47.0	0.555	55.48	9.944	66.8	75	125				S
Selenium	4.69	0.222	5.548	0.9977	66.6	75	125				S
Silver	2.11	0.166	2.774	0.08670	73.0	75	125				S
Zinc	71.3	1.94	55.48	36.70	62.4	75	125				S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample ID: 2103028-010AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 3/4/2021		RunNo: 65715			
Client ID: BATCH		Batch ID: 31552				Analysis Date: 3/5/2021		SeqNo: 1322046			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	53.4	0.135	56.37	4.278	87.2	75	125	42.01	23.9	20	R
Barium	103	0.676	56.37	46.97	98.9	75	125	79.02	26.1	20	R
Cadmium	2.80	0.225	2.819	0.06849	96.9	75	125	2.149	26.3	20	R
Chromium	61.6	0.451	56.37	13.97	84.5	75	125	49.56	21.7	20	R
Copper	64.1	1.13	56.37	17.67	82.3	75	125	52.45	19.9	20	
Lead	33.1	0.225	28.19	6.997	92.7	75	125	25.86	24.6	20	R
Nickel	58.1	0.564	56.37	9.944	85.4	75	125	47.00	21.1	20	R
Selenium	6.07	0.225	5.637	0.9977	89.9	75	125	4.695	25.5	20	R
Silver	2.74	0.169	2.819	0.08670	94.1	75	125	2.113	25.8	20	R
Zinc	88.8	1.97	56.37	36.70	92.4	75	125	71.30	21.8	20	R

NOTES:

R - High RPD observed due to Matrix Spike recoveries. The method is in control as indicated by the LCS.

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

Sample ID: 2103028-010APDS	SampType: PDS	Units: mg/Kg-dry				Prep Date: 3/4/2021	RunNo: 65715				
Client ID: BATCH	Batch ID: 31552					Analysis Date: 3/5/2021	SeqNo: 1322047				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	71.6	0.169	70.5	4.28	95.5	75	125				
Barium	130	0.846	70.5	47.0	118	75	125				
Cadmium	3.62	0.282	3.52	0.0685	101	75	125				
Chromium	80.3	0.564	70.5	14.0	94.1	75	125				
Copper	83.8	1.41	70.5	17.7	93.8	75	125				
Lead	43.4	0.282	35.2	7.00	103	75	125				
Nickel	74.7	0.705	70.5	9.94	91.9	75	125				
Selenium	7.85	0.282	7.05	0.998	97.2	75	125				
Silver	3.62	0.211	3.52	0.0867	100	75	125				
Zinc	118	2.47	70.5	36.7	116	75	125				

Sample ID: MB-31552	SampType: MBLK	Units: mg/Kg				Prep Date: 3/4/2021	RunNo: 65715				
Client ID: MBLKS	Batch ID: 31552					Analysis Date: 3/9/2021	SeqNo: 1322582				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	0.400									

Sample ID: LCS-31552	SampType: LCS	Units: mg/Kg				Prep Date: 3/4/2021	RunNo: 65715				
Client ID: LCSS	Batch ID: 31552					Analysis Date: 3/9/2021	SeqNo: 1322583				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	45.4	0.400	50.00	0	90.9	80	120				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Mercury by EPA Method 7471

Sample ID: MB-31550	SampType: MBLK	Units: mg/Kg	Prep Date: 3/3/2021	RunNo: 65645							
Client ID: MBLKS	Batch ID: 31550		Analysis Date: 3/4/2021	SeqNo: 1320628							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.250

Sample ID: LCS-31550	SampType: LCS	Units: mg/Kg	Prep Date: 3/3/2021	RunNo: 65645							
Client ID: LCSS	Batch ID: 31550		Analysis Date: 3/4/2021	SeqNo: 1320629							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.519 0.250 0.5000 0 104 80 120

Sample ID: 2103036-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/3/2021	RunNo: 65645							
Client ID: BATCH	Batch ID: 31550		Analysis Date: 3/4/2021	SeqNo: 1320631							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.285 0 20

Sample ID: 2103036-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/3/2021	RunNo: 65645							
Client ID: BATCH	Batch ID: 31550		Analysis Date: 3/4/2021	SeqNo: 1320632							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.628 0.290 0.5803 0.04549 100 70 130

Sample ID: 2103036-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/3/2021	RunNo: 65645							
Client ID: BATCH	Batch ID: 31550		Analysis Date: 3/4/2021	SeqNo: 1320633							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.593 0.270 0.5395 0.04549 102 70 130 0.6278 5.62 20

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Metals (EPA 200.8) with TCLP Extraction (EPA 1311)

Sample ID: MB-31676	SampType: MBLK	Units: mg/L			Prep Date: 3/17/2021	RunNo: 65942
Client ID: MBLKS	Batch ID: 31676				Analysis Date: 3/17/2021	SeqNo: 1326864
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.200

Sample ID: LCS-31676	SampType: LCS	Units: mg/L			Prep Date: 3/17/2021	RunNo: 65942
Client ID: LCSS	Batch ID: 31676				Analysis Date: 3/17/2021	SeqNo: 1326865
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 2.33 0.200 2.500 0 93.1 65 135

Sample ID: 2103041-003ADUP	SampType: DUP	Units: mg/L			Prep Date: 3/17/2021	RunNo: 65942
Client ID: A5-WA	Batch ID: 31676				Analysis Date: 3/17/2021	SeqNo: 1326867
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 1.19 0.200 1.227 2.83 30

Sample ID: 2103041-003AMS	SampType: MS	Units: mg/L			Prep Date: 3/17/2021	RunNo: 65942
Client ID: A5-WA	Batch ID: 31676				Analysis Date: 3/17/2021	SeqNo: 1326870
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 3.62 0.200 2.500 1.227 95.7 65 135

Sample ID: 2103041-003AMSD	SampType: MSD	Units: mg/L			Prep Date: 3/17/2021	RunNo: 65942
Client ID: A5-WA	Batch ID: 31676				Analysis Date: 3/17/2021	SeqNo: 1326871
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 3.61 0.200 2.500 1.227 95.2 65 135 3.619 0.315 30

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-31566	SampType: MBLK	Units: µg/Kg	Prep Date: 3/5/2021	RunNo: 65688							
Client ID: MBLKS	Batch ID: 31566		Analysis Date: 3/5/2021	SeqNo: 1321483							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthylene	ND	20.0									
Acenaphthene	ND	20.0									
Fluorene	ND	20.0									
Phenanthrene	ND	40.0									
Anthracene	ND	40.0									
Fluoranthene	ND	40.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	40.0									
Benzo(b)fluoranthene	ND	20.0									
Benzo(k)fluoranthene	ND	20.0									
Benzo(a)pyrene	ND	20.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	40.0									
Benzo(g,h,i)perylene	ND	20.0									
Surr: 2-Fluorobiphenyl	767		1,000		76.7	19	135				
Surr: Terphenyl-d14 (surr)	827		1,000		82.7	42.9	156				

Sample ID: LCS-31566	SampType: LCS	Units: µg/Kg	Prep Date: 3/5/2021	RunNo: 65688							
Client ID: LCSS	Batch ID: 31566		Analysis Date: 3/5/2021	SeqNo: 1321484							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,660	20.0	2,000	0	82.9	62.7	127				
2-Methylnaphthalene	1,660	20.0	2,000	0	83.1	62.7	132				
1-Methylnaphthalene	1,660	20.0	2,000	0	83.2	61.4	131				
Acenaphthylene	1,640	20.0	2,000	0	81.8	62	132				
Acenaphthene	1,610	20.0	2,000	0	80.4	59.2	132				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-31566	SampType: LCS	Units: µg/Kg				Prep Date: 3/5/2021	RunNo: 65688				
Client ID: LCSS	Batch ID: 31566					Analysis Date: 3/5/2021	SeqNo: 1321484				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	1,670	20.0	2,000	0	83.4	59.1	136				
Phenanthrene	1,630	40.0	2,000	0	81.6	54.1	139				
Anthracene	1,620	40.0	2,000	0	81.2	55.5	136				
Fluoranthene	1,660	40.0	2,000	0	83.2	52.8	149				
Pyrene	1,660	40.0	2,000	0	83.2	53.6	146				
Benz(a)anthracene	1,650	20.0	2,000	0	82.7	49.7	153				
Chrysene	1,630	40.0	2,000	0	81.3	52.6	147				
Benzo(b)fluoranthene	1,560	20.0	2,000	0	77.8	50.6	151				
Benzo(k)fluoranthene	1,860	20.0	2,000	0	92.8	47.1	155				
Benzo(a)pyrene	1,890	20.0	2,000	0	94.3	48.3	169				
Indeno(1,2,3-cd)pyrene	1,660	40.0	2,000	0	82.9	52.3	145				
Dibenz(a,h)anthracene	1,670	40.0	2,000	0	83.6	53	144				
Benzo(g,h,i)perylene	1,700	20.0	2,000	0	85.2	49.7	144				
Surr: 2-Fluorobiphenyl	820		1,000		82.0	19	135				
Surr: Terphenyl-d14 (surr)	863		1,000		86.3	42.9	156				

Sample ID: 2103034-001AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 3/5/2021	RunNo: 65688				
Client ID: BATCH	Batch ID: 31566					Analysis Date: 3/5/2021	SeqNo: 1321486				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,500	23.1	2,310	0	65.1	28.7	139				
2-Methylnaphthalene	1,560	23.1	2,310	0	67.4	43.5	130				
1-Methylnaphthalene	1,550	23.1	2,310	0	67.2	42.6	127				
Acenaphthylene	1,570	23.1	2,310	0	68.0	45.3	129				
Acenaphthene	1,510	23.1	2,310	0	65.2	45.1	123				
Fluorene	1,600	23.1	2,310	0	69.1	41.6	128				
Phenanthrene	1,530	46.2	2,310	31.97	64.9	24.2	142				
Anthracene	1,650	46.2	2,310	6.437	71.2	33.1	143				
Fluoranthene	1,810	46.2	2,310	80.87	74.9	35.5	147				
Pyrene	1,790	46.2	2,310	104.6	72.9	38.3	141				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2103034-001AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 3/5/2021	RunNo: 65688				
Client ID: BATCH	Batch ID: 31566					Analysis Date: 3/5/2021	SeqNo: 1321486				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	1,790	23.1	2,310	37.62	75.9	42.5	145				
Chrysene	1,510	46.2	2,310	88.32	61.6	39.7	134				
Benzo(b)fluoranthene	1,840	23.1	2,310	63.43	76.9	29.9	152				
Benzo(k)fluoranthene	1,650	23.1	2,310	61.03	68.8	33.2	143.5				
Benzo(a)pyrene	1,990	23.1	2,310	53.30	84.0	38.2	156				
Indeno(1,2,3-cd)pyrene	1,310	46.2	2,310	33.55	55.1	41.4	128				
Dibenz(a,h)anthracene	1,340	46.2	2,310	0	57.8	40.4	129				
Benzo(g,h,i)perylene	1,180	23.1	2,310	63.74	48.5	34.2	131				
Surr: 2-Fluorobiphenyl	775		1,155		67.1	19	135				
Surr: Terphenyl-d14 (surr)	902		1,155		78.1	42.9	156				

Sample ID: 2103034-001AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 3/5/2021	RunNo: 65688				
Client ID: BATCH	Batch ID: 31566					Analysis Date: 3/5/2021	SeqNo: 1321487				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,660	26.2	2,619	0	63.3	28.7	139	1,504	9.66	30	
2-Methylnaphthalene	1,710	26.2	2,619	0	65.5	43.5	130	1,557	9.63	30	
1-Methylnaphthalene	1,710	26.2	2,619	0	65.2	42.6	127	1,552	9.45	30	
Acenaphthylene	1,710	26.2	2,619	0	65.3	45.3	129	1,572	8.49	30	
Acenaphthene	1,640	26.2	2,619	0	62.5	45.1	123	1,505	8.29	30	
Fluorene	1,740	26.2	2,619	0	66.6	41.6	128	1,595	8.96	30	
Phenanthrene	1,620	52.4	2,619	31.97	60.8	24.2	142	1,531	5.86	30	
Anthracene	1,800	52.4	2,619	6.437	68.4	33.1	143	1,651	8.50	30	
Fluoranthene	1,940	52.4	2,619	80.87	71.1	35.5	147	1,811	7.04	30	
Pyrene	1,910	52.4	2,619	104.6	69.0	38.3	141	1,788	6.61	30	
Benz(a)anthracene	1,920	26.2	2,619	37.62	71.9	42.5	145	1,790	7.07	30	
Chrysene	1,670	52.4	2,619	88.32	60.3	39.7	134	1,511	9.80	30	
Benzo(b)fluoranthene	2,000	26.2	2,619	63.43	73.8	29.9	152	1,840	8.16	30	
Benzo(k)fluoranthene	1,710	26.2	2,619	61.03	62.9	33.2	143.5	1,650	3.44	30	
Benzo(a)pyrene	2,090	26.2	2,619	53.30	77.8	38.2	156	1,994	4.80	30	

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2103034-001AMSD	SampType: MSD	Units: µg/Kg-dry				Prep Date: 3/5/2021	RunNo: 65688				
Client ID: BATCH	Batch ID: 31566					Analysis Date: 3/5/2021	SeqNo: 1321487				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	1,290	52.4	2,619	33.55	47.8	41.4	128	1,306	1.56	30	
Dibenz(a,h)anthracene	1,320	52.4	2,619	0	50.6	40.4	129	1,336	0.889	30	
Benzo(g,h,i)perylene	1,130	26.2	2,619	63.74	40.6	34.2	131	1,184	4.98	30	
Surr: 2-Fluorobiphenyl	862		1,309		65.9	19	135		0		
Surr: Terphenyl-d14 (surr)	993		1,309		75.8	42.9	156		0		

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-31554	SampType: MBLK	Units: mg/Kg			Prep Date: 3/4/2021	RunNo: 65657					
Client ID: MBLKS	Batch ID: 31554				Analysis Date: 3/4/2021	SeqNo: 1320856					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0100									
Aroclor 1221	ND	0.0100									
Aroclor 1232	ND	0.0100									
Aroclor 1242	ND	0.0100									
Aroclor 1248	ND	0.0100									
Aroclor 1254	ND	0.0100									
Aroclor 1260	ND	0.0100									
Aroclor 1262	ND	0.0100									
Aroclor 1268	ND	0.0100									
Total PCBs	ND	0.0100									
Surr: Decachlorobiphenyl	21.3		20.00		107	9.23	163				
Surr: Tetrachloro-m-xylene	19.1		20.00		95.3	12	153				

Sample ID: LCS1-31554	SampType: LCS	Units: mg/Kg			Prep Date: 3/4/2021	RunNo: 65657					
Client ID: LCSS	Batch ID: 31554				Analysis Date: 3/4/2021	SeqNo: 1320857					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.105	0.0500	0.1000	0	105	55.7	140				
Aroclor 1260	0.118	0.0500	0.1000	0	118	58.6	145				
Surr: Decachlorobiphenyl	19.9		20.00		99.7	9.23	163				
Surr: Tetrachloro-m-xylene	17.5		20.00		87.4	12	153				

Sample ID: LCS2-31554	SampType: LCS	Units: mg/Kg			Prep Date: 3/4/2021	RunNo: 65657					
Client ID: LCSS	Batch ID: 31554				Analysis Date: 3/4/2021	SeqNo: 1320858					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	0.0978	0.0500	0.1000	0	97.8	47.9	148				
Surr: Decachlorobiphenyl	21.6		20.00		108	9.23	163				
Surr: Tetrachloro-m-xylene	19.2		20.00		96.1	12	153				

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: LCS2-31554	SampType: LCS	Units: mg/Kg	Prep Date: 3/4/2021	RunNo: 65657							
Client ID: LCSS	Batch ID: 31554		Analysis Date: 3/4/2021	SeqNo: 1320858							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2102417-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/4/2021	RunNo: 65657							
Client ID: BATCH	Batch ID: 31554		Analysis Date: 3/4/2021	SeqNo: 1320860							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.149	0.0637	0.1274	0	117	22.9	177				
Aroclor 1260	0.168	0.0637	0.1274	0	132	30.1	157				
Surr: Decachlorobiphenyl	29.0		25.48		114	9.23	163				
Surr: Tetrachloro-m-xylene	22.5		25.48		88.3	12	153				

Sample ID: 2102417-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/4/2021	RunNo: 65657							
Client ID: BATCH	Batch ID: 31554		Analysis Date: 3/4/2021	SeqNo: 1320861							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.132	0.0601	0.1203	0	110	22.9	177	0.1490	11.9	30	
Aroclor 1260	0.147	0.0601	0.1203	0	123	30.1	157	0.1677	12.9	30	
Surr: Decachlorobiphenyl	26.1		24.06		109	9.23	163		0		
Surr: Tetrachloro-m-xylene	17.4		24.06		72.1	12	153		0		

Sample ID: MB-31567	SampType: MBLK	Units: mg/Kg	Prep Date: 3/5/2021	RunNo: 65730							
Client ID: MBLKS	Batch ID: 31567		Analysis Date: 3/9/2021	SeqNo: 1322273							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0100									
Aroclor 1221	ND	0.0100									
Aroclor 1232	ND	0.0100									
Aroclor 1242	ND	0.0100									
Aroclor 1248	ND	0.0100									
Aroclor 1254	ND	0.0100									

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: MB-31567	SampType: MBLK	Units: mg/Kg				Prep Date: 3/5/2021	RunNo: 65730				
Client ID: MBLKS	Batch ID: 31567					Analysis Date: 3/9/2021	SeqNo: 1322273				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1260	ND	0.0100									
Aroclor 1262	ND	0.0100									
Aroclor 1268	ND	0.0100									
Total PCBs	ND	0.0100									
Surr: Decachlorobiphenyl	185		200.0		92.4	9.23	163				
Surr: Tetrachloro-m-xylene	216		200.0		108	12	153				

Sample ID: LCS1-31567	SampType: LCS	Units: mg/Kg				Prep Date: 3/5/2021	RunNo: 65730				
Client ID: LCSS	Batch ID: 31567					Analysis Date: 3/9/2021	SeqNo: 1322274				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.907	0.0500	1.000	0	90.7	55.7	140				
Aroclor 1260	0.959	0.0500	1.000	0	95.9	58.6	145				
Surr: Decachlorobiphenyl	190		200.0		95.1	9.23	163				
Surr: Tetrachloro-m-xylene	219		200.0		110	12	153				

Sample ID: LCS2-31567	SampType: LCS	Units: mg/Kg				Prep Date: 3/5/2021	RunNo: 65730				
Client ID: LCSS	Batch ID: 31567					Analysis Date: 3/9/2021	SeqNo: 1322275				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	0.950	0.0500	1.000	0	95.0	47.9	148				
Surr: Decachlorobiphenyl	201		200.0		100	9.23	163				
Surr: Tetrachloro-m-xylene	227		200.0		113	12	153				

Sample ID: 2103041-003AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 3/5/2021	RunNo: 65730				
Client ID: A5-WA	Batch ID: 31567					Analysis Date: 3/9/2021	SeqNo: 1322277				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.940	0.0530	1.059	0	88.7	22.9	177				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: 2103041-003AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65730							
Client ID: A5-WA	Batch ID: 31567		Analysis Date: 3/9/2021	SeqNo: 1322277							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	0.860	0.0530	1.059	0	81.2	30.1	157				
Surr: Decachlorobiphenyl	180		211.9		85.1	9.23	163				
Surr: Tetrachloro-m-xylene	197		211.9		92.8	12	153				

Sample ID: 2103041-003AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65730							
Client ID: A5-WA	Batch ID: 31567		Analysis Date: 3/9/2021	SeqNo: 1322278							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	0.882	0.0539	1.078	0	81.8	22.9	177	0.9397	6.32	30	
Aroclor 1260	0.823	0.0539	1.078	0	76.3	30.1	157	0.8601	4.45	30	
Surr: Decachlorobiphenyl	173		215.7		80.0	9.23	163		0		
Surr: Tetrachloro-m-xylene	193		215.7		89.5	12	153		0		

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-31569	SampType: LCS	Units: µg/L				Prep Date: 3/5/2021	RunNo: 65699				
Client ID: LCSS	Batch ID: 31569					Analysis Date: 3/5/2021	SeqNo: 1321707				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.855	0.0200	1.000	0	85.5	13.3	197				
Chloromethane	0.927	0.0500	1.000	0	92.7	59.8	139				
Vinyl chloride	1.10	0.0200	1.000	0	110	63.6	138				
Bromomethane	0.889	0.0500	1.000	0	88.9	49.6	171				
Trichlorofluoromethane (CFC-11)	0.938	0.0200	1.000	0	93.8	73.2	134				
Chloroethane	0.805	0.0500	1.000	0	80.5	59.2	147				
1,1-Dichloroethene	0.912	0.0200	1.000	0	91.2	73.7	131				
Methylene chloride	0.914	0.0200	1.000	0	91.4	75.4	127				
trans-1,2-Dichloroethene	0.917	0.0200	1.000	0	91.7	77.9	125				
Methyl tert-butyl ether (MTBE)	1.03	0.0200	1.000	0	103	73.6	119				
1,1-Dichloroethane	0.896	0.0200	1.000	0	89.6	73.8	127				
cis-1,2-Dichloroethene	0.906	0.0200	1.000	0	90.6	82.1	118				
Chloroform	0.924	0.0200	1.000	0	92.4	81.5	118				
1,1,1-Trichloroethane (TCA)	0.916	0.0200	1.000	0	91.6	81.5	119				
1,1-Dichloropropene	1.05	0.0200	1.000	0	105	80.6	121				
Carbon tetrachloride	1.06	0.0200	1.000	0	106	79.3	122				
1,2-Dichloroethane (EDC)	1.13	0.0200	1.000	0	113	76.1	120				
Benzene	1.15	0.0200	1.000	0	115	81.7	119				
Trichloroethene (TCE)	1.20	0.0200	1.000	0	120	81.4	120				
1,2-Dichloropropane	1.05	0.0200	1.000	0	105	78.8	120				
Bromodichloromethane	1.07	0.0200	1.000	0	107	79.4	118				
Dibromomethane	1.11	0.0200	1.000	0	111	79.8	117				
cis-1,3-Dichloropropene	1.11	0.0200	1.000	0	111	81.4	118				
Toluene	1.02	0.0200	1.000	0	102	81.7	120				
trans-1,3-Dichloropropylene	0.956	0.0200	1.000	0	95.6	78.3	119				
1,1,2-Trichloroethane	1.02	0.0200	1.000	0	102	78.3	117				
1,3-Dichloropropane	1.02	0.0250	1.000	0	102	77.4	118				
Tetrachloroethene (PCE)	0.996	0.0200	1.000	0	99.6	79.9	123				
Dibromochloromethane	1.02	0.0200	1.000	0	102	77.9	117				
1,2-Dibromoethane (EDB)	1.05	0.00500	1.000	0	105	76.3	119				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-31569	SampType: LCS	Units: µg/L				Prep Date: 3/5/2021	RunNo: 65699				
Client ID: LCSS	Batch ID: 31569					Analysis Date: 3/5/2021	SeqNo: 1321707				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	0.978	0.0200	1.000	0	97.8	86.2	113				
1,1,1,2-Tetrachloroethane	1.02	0.0200	1.000	0	102	84.9	113				
Ethylbenzene	1.10	0.0250	1.000	0	110	83.7	122				
m,p-Xylene	2.15	0.0500	2.000	0	108	85.1	119				
o-Xylene	1.04	0.0250	1.000	0	104	85.2	116				
Styrene	0.977	0.0200	1.000	0	97.7	84.8	116				
Isopropylbenzene	0.972	0.0200	1.000	0	97.2	82.2	124				
Bromoform	1.13	0.0500	1.000	0	113	76.1	121				
1,1,2,2-Tetrachloroethane	0.950	0.0200	1.000	0	95.0	68.1	122				
n-Propylbenzene	1.04	0.0200	1.000	0	104	81.1	127				
Bromobenzene	0.993	0.0200	1.000	0	99.3	88.7	109				
1,3,5-Trimethylbenzene	0.965	0.0200	1.000	0	96.5	82.9	121				
2-Chlorotoluene	0.945	0.0250	1.000	0	94.5	82.8	121				
4-Chlorotoluene	0.962	0.0200	1.000	0	96.2	83.4	119				
tert-Butylbenzene	0.953	0.0200	1.000	0	95.3	82.3	121				
1,2,3-Trichloropropane	1.01	0.0250	1.000	0	101	72.4	119				
1,2,4-Trichlorobenzene	0.947	0.0200	1.000	0	94.7	73.6	123				
sec-Butylbenzene	0.986	0.0250	1.000	0	98.6	81.1	126				
4-Isopropyltoluene	0.974	0.0250	1.000	0	97.4	81.4	124				
1,3-Dichlorobenzene	0.989	0.0200	1.000	0	98.9	85.2	120				
1,4-Dichlorobenzene	0.975	0.0200	1.000	0	97.5	84.9	119				
n-Butylbenzene	0.945	0.0200	1.000	0	94.5	81.2	128				
1,2-Dichlorobenzene	1.00	0.0200	1.000	0	100	86.3	116				
1,2-Dibromo-3-chloropropane	1.10	0.500	1.000	0	110	60.7	132				
1,2,4-Trimethylbenzene	0.974	0.0200	1.000	0	97.4	83.8	120				
Hexachloro-1,3-butadiene	1.00	0.0250	1.000	0	100	78.1	129				
Naphthalene	1.01	0.0500	1.000	0	101	56.8	135				
1,2,3-Trichlorobenzene	0.975	0.0200	1.000	0	97.5	68.2	125				
Surr: Dibromofluoromethane	1.17		1.250		93.3	82.3	112				
Surr: Toluene-d8	1.17		1.250		93.4	90.7	109				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-31569	SampType: LCS	Units: µg/L	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: LCSS	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321707							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		100	88.4	109				

Sample ID: MB-31569	SampType: MBLK	Units: mg/Kg	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: MBLKS	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321706							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0200									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.0500									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0500									
1,1-Dichloroethene	ND	0.0200									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
Methyl tert-butyl ether (MTBE)	ND	0.0200									
1,1-Dichloroethane	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.00699									MDL
Trichloroethene (TCE)	ND	0.0200									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
Dibromomethane	ND	0.0200									
cis-1,3-Dichloropropene	ND	0.0200									
Toluene	ND	0.0200									

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-31569	SampType: MBLK	Units: mg/Kg	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: MBLKS	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321706							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropylene	ND	0.0200									
1,1,2-Trichloroethane	ND	0.0200									
1,3-Dichloropropane	ND	0.0250									
Tetrachloroethene (PCE)	ND	0.0200									
Dibromochloromethane	ND	0.0200									
1,2-Dibromoethane (EDB)	ND	0.00500									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0200									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0200									
Isopropylbenzene	ND	0.0200									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0200									
n-Propylbenzene	ND	0.0200									
Bromobenzene	ND	0.0200									
1,3,5-Trimethylbenzene	ND	0.0200									
2-Chlorotoluene	ND	0.0250									
4-Chlorotoluene	ND	0.0200									
tert-Butylbenzene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0250									
1,2,4-Trichlorobenzene	ND	0.0200									
sec-Butylbenzene	ND	0.0250									
4-Isopropyltoluene	ND	0.0250									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.500									

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-31569	SampType: MBLK	Units: mg/Kg	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: MBLKS	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321706							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	ND	0.0200									
Hexachloro-1,3-butadiene	ND	0.0250									
Naphthalene	ND	0.0500									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	1.22		1.250		97.6	82.3	112				
Surr: Toluene-d8	1.30		1.250		104	90.7	109				
Surr: 1-Bromo-4-fluorobenzene	1.18		1.250		94.6	88.4	109				

Sample ID: 2103041-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A7A8-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321691							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0279						0		30	
Chloromethane	ND	0.0698						0		30	
Vinyl chloride	ND	0.0279						0		30	
Bromomethane	ND	0.0698						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0279						0		30	
Chloroethane	ND	0.0698						0		30	
1,1-Dichloroethene	ND	0.0279						0		30	
Methylene chloride	ND	0.0279						0		30	
trans-1,2-Dichloroethene	ND	0.0279						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0279						0		30	
1,1-Dichloroethane	ND	0.0279						0		30	
cis-1,2-Dichloroethene	ND	0.0279						0		30	
Chloroform	ND	0.0279						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0279						0		30	
1,1-Dichloropropene	ND	0.0279						0		30	
Carbon tetrachloride	ND	0.0279						0		30	
1,2-Dichloroethane (EDC)	ND	0.0279						0		30	
Benzene	ND	0.0279						0		30	

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2103041-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A7A8-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321691							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.0279						0		30	
1,2-Dichloropropane	ND	0.0279						0		30	
Bromodichloromethane	ND	0.0279						0		30	
Dibromomethane	ND	0.0279						0		30	
cis-1,3-Dichloropropene	ND	0.0279						0		30	
Toluene	0.0557	0.0279						0	200	30	
trans-1,3-Dichloropropylene	ND	0.0279						0		30	
1,1,2-Trichloroethane	ND	0.0279						0		30	
1,3-Dichloropropane	ND	0.0349						0		30	
Tetrachloroethene (PCE)	ND	0.0279						0		30	
Dibromochloromethane	ND	0.0279						0		30	
1,2-Dibromoethane (EDB)	ND	0.00698						0		30	
Chlorobenzene	ND	0.0279						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0279						0		30	
Ethylbenzene	0.370	0.0349						0.2883	24.9	30	
m,p-Xylene	2.36	0.0698						2.371	0.385	30	
o-Xylene	0.183	0.0349						0.1909	4.27	30	
Styrene	ND	0.0279						0		30	
Isopropylbenzene	0.336	0.0279						0.2654	23.4	30	
Bromoform	ND	0.0698						0		30	
1,1,1,2,2-Tetrachloroethane	ND	0.0279						0		30	
n-Propylbenzene	1.10	0.0279						0.9873	10.4	30	
Bromobenzene	ND	0.0279						0		30	
1,3,5-Trimethylbenzene	3.96	0.0279						4.199	5.78	30	
2-Chlorotoluene	ND	0.0349						0		30	
4-Chlorotoluene	ND	0.0279						0		30	
tert-Butylbenzene	ND	0.0279						0		30	
1,2,3-Trichloropropane	ND	0.0349						0		30	
1,2,4-Trichlorobenzene	ND	0.0279						0		30	
sec-Butylbenzene	0.365	0.0349						0	200	30	

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2103041-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A7A8-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321691							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	0.592	0.0349						0.5487	7.52	30	
1,3-Dichlorobenzene	ND	0.0279						0		30	
1,4-Dichlorobenzene	ND	0.0279						0		30	
n-Butylbenzene	0.705	0.0279						0.6230	12.4	30	
1,2-Dichlorobenzene	ND	0.0279						0		30	
1,2-Dibromo-3-chloropropane	ND	0.698						0		30	
1,2,4-Trimethylbenzene	5.59	0.0279						10.06	57.1	30	R
Hexachloro-1,3-butadiene	ND	0.0349						0		30	
Naphthalene	0.168	0.0698						0	200	30	
1,2,3-Trichlorobenzene	ND	0.0279						0		30	
Surr: Dibromofluoromethane	1.81		1.744		104	82.3	112			0	
Surr: Toluene-d8	1.59		1.744		91.2	90.7	109			0	
Surr: 1-Bromo-4-fluorobenzene	1.72		1.744		98.6	88.4	109			0	

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID: 2103041-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A4-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321694							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.683	0.0211	1.055	0	64.8	5.08	187				
Chloromethane	0.903	0.0527	1.055	0.01498	84.2	41.2	147				
Vinyl chloride	0.799	0.0211	1.055	0	75.7	49.9	147				
Bromomethane	0.882	0.0527	1.055	0	83.6	47.1	182				
Trichlorofluoromethane (CFC-11)	0.951	0.0211	1.055	0	90.2	51.7	151				
Chloroethane	0.760	0.0527	1.055	0	72.1	47.5	166				
1,1-Dichloroethene	0.922	0.0211	1.055	0	87.5	61.3	144				
Methylene chloride	0.808	0.0211	1.055	0	76.6	75.3	130				
trans-1,2-Dichloroethene	0.972	0.0211	1.055	0	92.2	73.5	130				
Methyl tert-butyl ether (MTBE)	1.14	0.0211	1.055	0	108	73	126				
1,1-Dichloroethane	0.973	0.0211	1.055	0	92.2	71.8	135				

Work Order: 2103041
CLIENT: Shannon & Wilson
Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2103041-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A4-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321694							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,2-Dichloroethene	1.15	0.0211	1.055	0	109	77.5	127				
Chloroform	1.11	0.0211	1.055	0	105	77.3	127				
1,1,1-Trichloroethane (TCA)	1.12	0.0211	1.055	0	106	71.3	131				
1,1-Dichloropropene	1.21	0.0211	1.055	0	114	69.8	134				
Carbon tetrachloride	1.18	0.0211	1.055	0	112	66.1	133				
1,2-Dichloroethane (EDC)	1.24	0.0211	1.055	0	117	73.5	128				
Benzene	1.19	0.0211	1.055	0	113	76.8	129				
Trichloroethene (TCE)	1.15	0.0211	1.055	0.02348	107	70.5	140				
1,2-Dichloropropane	1.00	0.0211	1.055	0	94.9	74.6	130				
Bromodichloromethane	0.972	0.0211	1.055	0	92.2	76.2	121				
Dibromomethane	1.05	0.0211	1.055	0	99.5	78	124				
cis-1,3-Dichloropropene	0.984	0.0211	1.055	0	93.3	76	120				
Toluene	1.09	0.0211	1.055	0.07583	96.2	77.8	127				
trans-1,3-Dichloropropylene	1.00	0.0211	1.055	0	95.1	73.5	121				
1,1,2-Trichloroethane	1.06	0.0211	1.055	0	100	77.7	123				
1,3-Dichloropropane	1.06	0.0264	1.055	0	100	77.4	123				
Tetrachloroethene (PCE)	1.08	0.0211	1.055	0	102	70.7	131				
Dibromochloromethane	1.02	0.0211	1.055	0	97.1	74.7	120				
1,2-Dibromoethane (EDB)	1.08	0.00527	1.055	0	103	76.1	124				
Chlorobenzene	1.04	0.0211	1.055	0	98.9	80.4	123				
1,1,1,2-Tetrachloroethane	1.05	0.0211	1.055	0	99.3	79.5	121				
Ethylbenzene	1.14	0.0264	1.055	0.05652	103	78.7	130				
m,p-Xylene	2.48	0.0527	2.109	0.3867	99.1	79.3	127				
o-Xylene	1.09	0.0264	1.055	0.07502	96.1	80.7	124				
Styrene	1.01	0.0211	1.055	0	95.6	81.9	122				
Isopropylbenzene	1.07	0.0211	1.055	0.01170	101	75.7	132				
Bromoform	1.14	0.0527	1.055	0	108	74.3	121				
1,1,1,2,2-Tetrachloroethane	0.938	0.0211	1.055	0	88.9	60.2	136				
n-Propylbenzene	1.10	0.0211	1.055	0.02644	102	76.4	134				
Bromobenzene	1.04	0.0211	1.055	0	98.8	80.3	122				

Work Order: 2103041
 CLIENT: Shannon & Wilson
 Project: 8801

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2103041-002BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/5/2021	RunNo: 65699							
Client ID: A4-WA	Batch ID: 31569		Analysis Date: 3/5/2021	SeqNo: 1321694							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	1.12	0.0211	1.055	0.1042	96.5	79.5	127				
2-Chlorotoluene	1.02	0.0264	1.055	0	97.0	77.6	131				
4-Chlorotoluene	1.01	0.0211	1.055	0	95.9	80.2	126				
tert-Butylbenzene	1.02	0.0211	1.055	0	97.0	75.5	132				
1,2,3-Trichloropropane	1.08	0.0264	1.055	0	102	70.2	126				
1,2,4-Trichlorobenzene	1.24	0.0211	1.055	0	118	64.2	142				
sec-Butylbenzene	1.06	0.0264	1.055	0	100	75	133				
4-Isopropyltoluene	1.03	0.0264	1.055	0.008735	97.2	74.4	133				
1,3-Dichlorobenzene	1.06	0.0211	1.055	0	101	80.7	127				
1,4-Dichlorobenzene	1.05	0.0211	1.055	0	99.4	81.9	124				
n-Butylbenzene	1.03	0.0211	1.055	0	97.4	71.5	140				
1,2-Dichlorobenzene	1.08	0.0211	1.055	0	103	83.7	122				
1,2-Dibromo-3-chloropropane	1.49	0.527	1.055	0	141	64.9	130				S
1,2,4-Trimethylbenzene	1.34	0.0211	1.055	0.2877	99.6	79.3	127				
Hexachloro-1,3-butadiene	1.09	0.0264	1.055	0	103	59.2	149				
Naphthalene	1.61	0.0527	1.055	0.02762	150	44.6	171				
1,2,3-Trichlorobenzene	1.08	0.0211	1.055	0	103	52.6	156				
Surr: Dibromofluoromethane	1.36		1.318		103	82.3	112				
Surr: Toluene-d8	1.23		1.318		93.7	90.7	109				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.318		97.6	88.4	109				

NOTES:

S - Outlying spike recovery observed (high bias).

Client Name: SW	Work Order Number: 2103041
Logged by: Claire Anderson	Date Received: 3/2/2021 5:14:00 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 Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°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
Sample 1	4.5

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



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 3/2/2021 Page: 1 of 1

Project Name: 8801

Project No: 21-1-12567

Collected by: CTC

Location: Tukwila, WA

Report to (PM): Meg Strong

PM Email: MJS@shawnwi.com

Laboratory Project No (Internal): 2103041

Special Remarks: Please refer to Email for required reporting limits

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: Shannon & Wilson, Inc.
Address: 460 N. 34th St., Suite 100
City, State, zip: Seattle, WA 98103
Telephone: 206-632-8020
Fax: 206-695-6777

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	H of Cont.	Analytes													Comments
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)		
1 A7A8-WA	3/2	1528	S	4	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 A4-WA	3/2	1538	S	4	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 A5-WA	3/2	1548	S	4	X	X	X	X	X	X	X	X	X	X	X	X	X	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 (RCCA-8) Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr (Cu) Fe Hg K Mg Mn Mo Na (Ni) Pb Sb Se Sr Sn Tl Tl V (Zn)
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

Relinquished (Signature): *[Signature]* Print Name: Christian Catfield Date/Time: 3/2/21 1600
 Relinquished (Signature): *[Signature]* Print Name: Mary Christos Date/Time: 3/2/21 5:14pm



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 3/2/2021 Page: 1 of 1

Project Name: 8801

Project No: 21-1-12567

Collected by: CTC

Location: Tukwila, WA

Report to (PM): Meg Strong

PM Email: MJS@shawnwi.com

Laboratory Project No (Internal): 2103041

Special Remarks:
Please refer to Email for required reporting limits

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: Shannon & Wilson, Inc.
Address: 460 N. 34th St., Suite 100
City, State, zip: Seattle, WA 98103
Telephone: 206-632-8020
Fax: 206-695-6777

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	H of Cont.	Analytes													Comments
					VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)		
1 A7A8-WA	3/2	1528	S	4	X	X	X	X	X	X	X	X	X	X	X	X		
2 A4-WA	3/2	1538	S	4	X	X	X	X	X	X	X	X	X	X	X	X		
3 A5-WA	3/2	1548	S	4	X	X	X	X	X	X	X	X	X	X	X	X		+TCLP-Pb per M.S. 3/9/21@5:30pm -BB
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-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 Sr Sn Tl Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Print Name Christen Catfield Date/Time 3/2/21 1600
 Relinquished (Signature) [Signature] Print Name Mary Ann Santos Date/Time 3/2/21 5:14pm



Dangerous Waste Characterization

Sample ID: A4+A5 :C

Report date: May 24, 2021

Submitted to:

Shannon & Wilson, Inc
400 N 34th Street, Suite 100
Seattle, WA 98103

Rainier Environmental
5013 Pacific Hwy East
Suite 20
Tacoma, WA 98424

1.0 INTRODUCTION

A dangerous waste characterization using the test organism *Oncorhynchus mykiss* (rainbow trout) was conducted on one sample submitted by Shannon & Wilson to Rainier Environmental. Testing was conducted following the Washington State Department of Ecology Publication 80-12.

2.0 METHODS

The sample, identified as A4+A5 :C was received in the laboratory on May 17, 2021. Upon arrival at the laboratory the sample was inspected and contents verified against information provided on the chain-of-custody form. The sample was stored at 4°C in the dark until use. The test procedure is outlined in Table 1.

Table 1. Summary of Dangerous Waste Characterization Test Conditions

Parameter	Standard Fish Toxicity Test
Test number	2105-012
Sample ID	A4+A5 :C
Test initiation date; time	5/18/2021; 0935h
Test termination date; time	5/22/2021; 0935h
Endpoint	Mortality at 96-hours
Test chamber	7.5 L plastic tank
Test temperature	12 ± 1°C
Dilution water	Moderately hard synthetic water
Test solution volume	6 L
Test concentrations (mg/L)	100, 10, 0
Number of organisms/chamber	10
Number of replicates	3
Test organism	<i>Oncorhynchus mykiss</i> (rainbow trout)
Feeding	No feeding during test
Photoperiod	16 hours light/ 8 hours dark
Extraction	Rotary agitation (30 +/- 2 rpm) for 18 hours
Reference Toxicant	Copper sulfate
Deviations	None

The test organisms used in the test are outlined in Table 2. The samples were tested using fish received on April 20, 2021.

Table 2. Test organisms (*Oncorhynchus mykiss*)

Test organism age	53 days post swim-up (hatch date 2/28/2021)
Mean weight	0.40 g
Mean length	40 mm
Ratio of longest to shortest	1.2
Loading	0.66 g/L
Test organism source	Trout Lodge; Sumner, WA

3.0 RESULTS

A summary of results for the dangerous waste characterization conducted on sample A4+A5 :C is contained in Table 3. There was no mortality during the test. Based on these results, the sample does not designate as either a dangerous or extremely hazardous waste. Copies of the laboratory bench sheets, statistical summaries of reference toxicant tests, and chain-of-custody form are provided in Appendices A through C.

Table 3. Summary of Results

Sample ID	Concentration (mg/L)	Survival (# fish, N=30)	Percent Mortality	Dangerous Waste Designation
Control	0	30	0	NA
A4+A5 :C	10 100	30 30	0 0	None

4.0 QUALITY ASSURANCE

The most recently completed reference toxicant test was initiated May 3, 2021. The LC₅₀ of 174 g/L copper fell within the acceptable range of mean ± two standard deviations of historical test results indicating that the test organisms were of an appropriate degree of sensitivity. The coefficient of variation (CV) for the last 20 tests was 22.9 percent, which is considered excellent by the Biomonitoring Science Advisory Board.

5.0 REFERENCES

- WDOE. 2016. Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria. Washington State Department of Ecology. Water Quality Program. Publication number: WQ-R-95-80, Revised June 2016.
- WDOE. 2020. Biological Testing Methods 80-12 for the Designation of Dangerous Waste. Washington State Department of Ecology. Hazardous Waste and Toxics Reduction Program. Publication number: 80-12, Revised September 2020.

Appendix A
***Oncorhynchus mykiss* Dangerous Waste Toxicity Test**
Raw Bench Sheets

Appendix B
Reference Toxicant Test
Control Chart and Statistical Summary

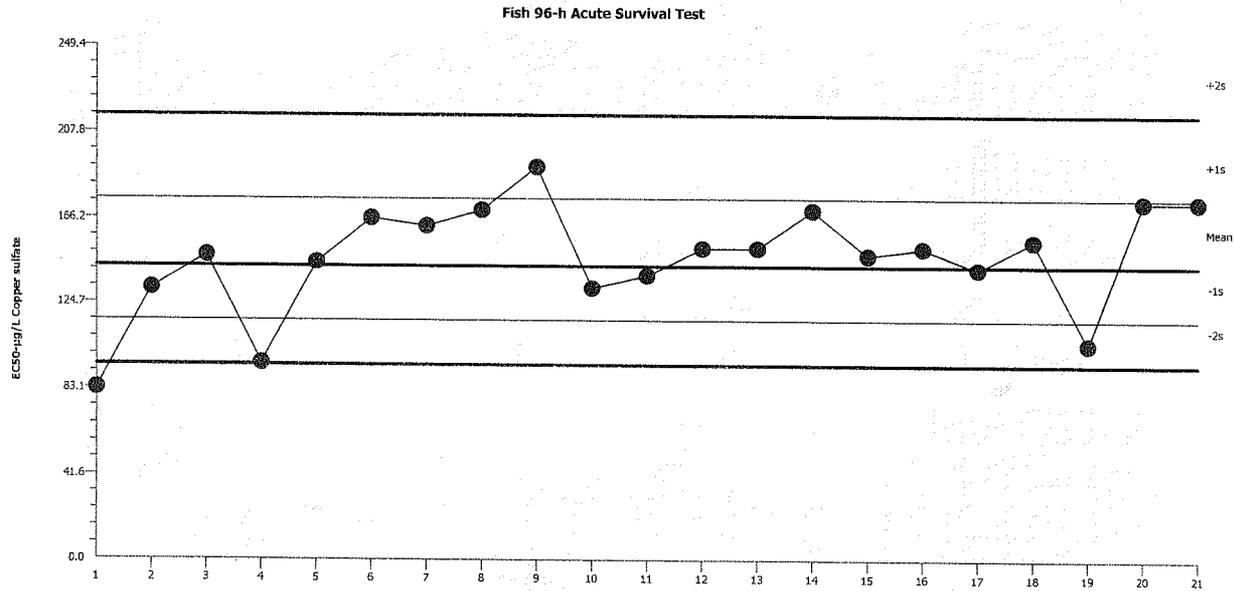
Fish 96-h Acute Survival Test

Rainier Environmental Laboratory

Test Type: Survival (96h)
 Protocol: Not Applicable

Organism: Oncorhynchus mykiss (Rainbow Tro
 Endpoint: 96h Survival Rate

Material: Copper sulfate
 Source: Reference Toxicant-REF



Mean: 142.9 Count: 20 -1s Warning Limit: 116.2 -2s Action Limit: 94.56
 Sigma: NA CV: 22.90% +1s Warning Limit: 175.6 +2s Action Limit: 215.9

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2019	Jul	23	83.12	-59.76	-2.624	(-)	(-)	09-5504-5129	09-5466-8341
2		Aug	23	132	-10.93	-0.3855			06-2129-4986	03-1480-8200
3		Sep	20	148.1	5.231	0.1742			14-9775-6582	02-8526-9159
4		Oct	22	95.48	-47.4	-1.953	(-)		08-2604-9852	04-5996-4554
5		Nov	25	144.7	1.848	0.06225			19-0900-7567	17-7816-6246
6		Dec	26	166.2	23.37	0.7339			18-0718-4325	01-1522-2292
7	2020	Jan	27	162.5	19.57	0.622			15-7428-0290	09-7189-2054
8		Feb	28	170.1	27.25	0.8458			09-4267-7927	12-7910-1452
9		Apr	1	191	48.09	1.406	(+)		13-6543-5000	21-3363-8866
10		May	1	132	-10.93	-0.3855			05-3085-5611	09-0915-7454
11		Jun	4	138.2	-4.688	-0.1616			02-5099-4531	13-4027-8146
12		Jul	6	151.6	8.692	0.2861			15-0399-3719	05-1602-0366
13		Aug	11	151.6	8.692	0.2861			11-3397-1930	16-8568-1199
14		Sep	14	170.1	27.25	0.8458			14-7225-6269	12-3543-2567
15		Oct	16	148.1	5.231	0.1742			14-5810-5046	20-2713-3131
16		Nov	18	151.6	8.692	0.2861			10-5338-0034	08-0074-4976
17		Dec	23	141.4	-1.458	-0.04969			15-6478-5352	03-7190-5847
18	2021	Jan	25	155.1	12.24	0.3981			20-5317-8946	09-6722-9321
19		Feb	25	104.7	-38.15	-1.505	(-)		02-0723-8590	03-5049-2171
20		Mar	26	174.1	31.23	0.9578			20-1005-2762	02-2683-0690
21		May	3	174.1	31.23	0.9578			06-3924-6336	17-2626-4312

CETIS Summary Report

Report Date: 10 May-21 10:30 (p 1 of 1)
 Test Code: RA050321OM | 06-3924-6336

Fish 96-h Acute Survival Test **Rainier Environmental Laboratory**

Batch ID: 16-3837-5190	Test Type: Survival (96h)	Analyst: Eric Tollefson
Start Date: 03 May-21 09:45	Protocol: Not Applicable	Diluent: Mod-Hard Synthetic Water
Ending Date: 07 May-21 09:45	Species: Oncorhynchus mykiss	Brine:
Duration: 96h	Source: Trout Lodge Fish Farm	Age: 71d
Sample ID: 15-3163-0371	Code: RA050321OM	Client: Internal Lab
Sample Date: 03 May-21	Material: Copper sulfate	Project:
Receive Date: 03 May-21	Source: Reference Toxicant	
Sample Age: 10h	Station: In House	

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
07-1703-3784	96h Survival Rate	50	100	70.71	17.8%		Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
17-2626-4312	96h Survival Rate	LC50	174.1	148.1	204.7		Spearman-Kärber

96h Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	3	1	1	1	1	1	0	0	0.0%	0.0%
25		3	1	1	1	1	1	0	0	0.0%	0.0%
50		3	1	1	1	1	1	0	0	0.0%	0.0%
100		3	0.8	0.7627	0.8373	0.7	0.9	0.05774	0.1	12.5%	20.0%
200		3	0.5	0.4012	0.5988	0.3	0.8	0.1528	0.2646	52.92%	50.0%
400		3	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	1	1	1
25		1	1	1
50		1	1	1
100		0.7	0.9	0.8
200		0.8	0.3	0.4
400		0	0	0

96h Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	10/10	10/10	10/10
25		10/10	10/10	10/10
50		10/10	10/10	10/10
100		7/10	9/10	8/10
200		8/10	3/10	4/10
400		0/10	0/10	0/10

Appendix C
Chain-of-Custody Form

Sample Collection By:

ANALYSES REQUIRED

Report to:
 Company: Shannon & Wilson, Inc.
 Address: 400 N 37th St, Suite 100
 City/State/zip: Seattle, WA 98105
 Contact: Christian Canfield
 Phone: 206-714-7637
 Email: ctc@shawnwil.com

Invoice To:
 Company: Shannon & Wilson, Inc.
 Address: _____
 City/State/zip: _____
 Contact: _____
 Phone: _____
 Email: AP-Seattle@shawnwil.com

Receipt Temperature (°C)

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS
1	A4*AS:C	5/17	1100	S	HDPE	1 Composite
2						
3						
4						
5						
6						
7						
8						
9						
10						

PROJECT INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
Client:	SW1	Total No. of Containers:	1	(Signature)	(Time)	(Signature)	(Time)
PO No.:	21-1-12567	Received Good Condition?	Y	(Printed Name)	(Date)	(Printed Name)	(Date)
Shipped Via:	Next	Matches Test Schedule?	Y	(Company)		(Company)	

SPECIAL INSTRUCTIONS/COMMENTS:

(Signature)	(Time)	(Signature)	(Time)
(Printed Name)	(Date)	(Printed Name)	(Date)
(Company)		(Company)	

RECEIVED BY (CLIENT)
 (Signature) [Signature]
 (Printed Name) Christian Canfield
 (Date) 5/17/21
 (Company) Shannon & Wilson, Inc.

RECEIVED BY (LABORATORY)
 (Signature) Eric Tolson
 (Printed Name) ERIC TOLSON
 (Date) 5/17/21
 (Company) TR21-131



Non-Hazardous WAM Approval

Requested Management Facility: Columbia Ridge Landfill, Duwamish Reload Facility

Profile Number: 135321OR Waste Acceptance Expiration Date: 05/27/2022
Common Name: LF02 - Petroleum Contaminated Soil WM Regulatory Volume Limit: _____ NA

APPROVAL DETAILS

Approval Decision: Approved Not Approved Profile Renewal: Yes No

Management Method: Alternate Daily Cover (ADC)

Generator Name: PACCAR Inc

Profile Expiration Date: 05/27/2022

Periodic Testing Due Date: _____ NA

Other Due Date: _____ NA (Specify) _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Shall not contain free liquids.
- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

YOU MAY NOT HAUL TO DUWAMISH W/OUT PRIOR SCHEDULING. Please contact Kim at 206-694-0600 to schedule your load with the landfill 24 hours in advance. A copy of the WAM Approval Form must be presented with each load to the landfill scale house attendant upon arrival.

No soil from the CERCLA clean-up may be shipped on this profile

Facility Conditions

- Approved via transfer station

WM Authorization Name: Leslie Fichera Title: Waste Approval Manager

WM Authorization Signature: Date: 05/27/2021

Agency Authorization (if Required): _____ Date: _____



Non-Hazardous WAM Approval

Requested Management Facility: Columbia Ridge Landfill, Duwamish Reload Facility

Profile Number: 135321OR Waste Acceptance Expiration Date: 06/08/2023
Common Name: LF02 - Petroleum Contaminated Soil WM Regulatory Volume Limit: _____ NA

APPROVAL DETAILS

Approval Decision: Approved Not Approved Profile Renewal: Yes No

Management Method: Alternate Daily Cover (ADC)

Generator Name: PACCAR Inc

Profile Expiration Date: 06/08/2023

Periodic Testing Due Date: _____ NA

Other Due Date: _____ NA (Specify) _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Shall not contain free liquids.
- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- Waste manifest or applicable shipping document must accompany load.
- The waste profile number must appear on the shipping papers.

YOU MAY NOT HAUL TO DUWAMISH W/OUT PRIOR SCHEDULING. Please contact Kim at 206-694-0600 to schedule your load with the landfill 24 hours in advance. A copy of the WAM Approval Form must be presented with each load to the landfill scale house attendant upon arrival.

No soil from the CERCLA clean-up may be shipped on this profile

YOU MAY NOT HAUL TO DUWAMISH W/OUT PRIOR SCHEDULING. Please contact Kim Funk at 206-694-0600 to schedule your load with the landfill 24 hours in advance. A copy of the WAM Approval Form must be presented with each load to the landfill scale house attendant upon arrival.

Facility Conditions

- Approved via transfer station

No soil from the CERCLA clean-up may be shipped on this profile

WM Authorization Name: Donald Lavrinc Title: Waste Approval Manager

WM Authorization Signature: *Donald Lavrinc* Date: 06/08/2022

Agency Authorization (if Required): _____ Date: _____

Appendix K

Disposal Certificates and Truck Tickets

CONTENTS

- Certificate of Disposal, Waste Management, profile 135321OR, dated April 21, 2022
- Certificate of Disposal, Waste Management, profile 135321OR, dated September 15, 2022
- Truck Tickets for Soil Disposal (391 pages)



8th Ave Reload Facility
7400 8th Ave S.
Seattle WA 98108

April 21, 2022

PACCAR Inc
777 106th Ave NE
Bellevue WA 98004

CERTIFICATE OF DISPOSAL

Waste Management, Inc. has received NON- HAZARDOUS Waste material from PACCAR Inc via Waste Management's 8th Ave Reload Facility.

Date Received:	9/15/21 thru 11/4/21
Profile #:	135321OR
Total Tons:	7600.63
Total Loads:	239
Waste Description:	Petroleum Contaminated Soil

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Julie Valdez

Julie Valdez
WM Ops Specialist



8th Avenue Reload
7400 8th Ave S
Bellevue, WA 98108

September 15, 2022

Paccar Inc.
777 106th Ave
Bellevue, WA 98004

CERTIFICATE OF DISPOSAL

Waste Management Inc dba 8th Avenue Reload Facility has received NON-HAZARDOUS Waste material from Paccar Inc.

Date Received at 8 th Ave:	8/17 – 8/31, 2022
Profile #:	135321OR
Waste Description:	Petroleum Contaminated Soil
Total Tons Received:	3683.02
Total Loads Received:	118

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Julie Valdez

Julie Valdez
WM Ops Specialist



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-15-21	Invoice No: 69138
Truck No: 4	Truck Type: T+T
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 5.75

Customer: Anderson Environmental	Job Address:
Billing Address:	Job Number:

Start: 10:00	Stop: 3:15	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Exp	M. Arginal Way	8th Ave 64550	37.53	
		64559	31.67	
		64567	36.24	
		64584	35.81	
		64590	33.71	
		64596	36.00	
		64603	33.97	

Driver's Signature: X	Print Name: TRsey	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1½% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64596
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 14:50:01	Scale 1	Operator	Inbound	Gross	113860 lb
Out	09/15/2021 14:50:01	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	72000 lb
					Tons	36.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.00	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	36.00	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64590
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 14:13:06	Scale 1	Operator	Inbound	Gross	109280 lb
Out	09/15/2021 14:13:06	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	67420 lb
					Tons	33.71

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.71	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.71	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64581
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 13:35:10	Scale 1	Operator kfunk2	Inbound	Gross	113480 lb
Out	09/15/2021 13:35:10		Operator kfunk2		Tare	41860 lb
					Net	71620 lb
					Tons	35.81

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.81	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.81	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64569
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 12:53:25	Scale 1	Operator kfunk2	Inbound	Gross	114340 lb
Out	09/15/2021 12:53:25		Operator kfunk2		Tare	41860 lb
					Net	72480 lb
					Tons	36.24

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.24	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	36.24	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64559
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 12:20:33	Scale 1	Operator	Inbound	Gross	105200 lb
Out	09/15/2021 12:20:33	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	63340 lb
					Tons	31.67

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.67	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.67	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64550
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	116920 lb
In	09/15/2021 11:32:33	Scale 1	kfunk2		Tare	41860 lb
Out	09/15/2021 11:43:28	Scale 1	kfunk2		Net	75060 lb
					Tons	37.53

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.53	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	37.53	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64603
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Time Scale
 In 09/15/2021 15:28:18 Scale 1
 Out 09/15/2021 15:28:18

Operator Inbound Gross 113840 lb*
 kfunk2 Tare 41860 lb*
 kfunk2 Net 71980 lb
 * Manual Weight Tons 35.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.99	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-15-2021	Invoice No: 69258
Truck No: 22	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E. Marginal Way South Seattle
Billing Address:	Job Number:

Start: 10:05	Stop: 3:45	Lunch:	Downtime:	Reason:
-----------------	---------------	--------	-----------	---------

MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle WM	64551	33 tons
			64560	33
			64573	33
			64584	33
			64591	33
			64598	35
			64604	37
Standby				
10:05 - 11:45				

Driver's Signature: X <i>Kevin McQuay</i>	Print Name: Kevin McQuay	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
--	-----------------------------	--	-------------

Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64551
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 11:34:08	Scale 1	Operator kfunk2	Inbound	Gross	106340 lb
Out	09/15/2021 11:34:08	Scale 1	Operator kfunk2		Tare	39900 lb
					Net	66440 lb
					Tons	33.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64560
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	107280 lb
In	09/15/2021 12:21:58	Scale 1	kfunk2		Tare	39900 lb
Out	09/15/2021 12:21:58		kfunk2		Net	67380 lb
					Tons	33.69

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.69	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.69	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64573
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 13:05:15	Scale	1	Operator	kfunk2	Inbound	Gross	106340 lb
Out	09/15/2021 13:05:15	Scale	1	Operator	kfunk2		Tare	39900 lb
							Net	66440 lb
							Tons	33.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *K M*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64584
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 13:44:36	Scale 1	Operator kfunk2	Inbound	Gross	106940 lb
Out	09/15/2021 13:44:36	Scale 1	Operator kfunk2		Tare	39900 lb
					Net	67040 lb
					Tons	33.52

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.52	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.52	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64591
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 14:16:29	Scale 1	Operator	Inbound	Gross	106580 lb
Out	09/15/2021 14:16:29	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	66680 lb
					Tons	33.34

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.34	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.34	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64598
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 14:53:46	Scale	Operator	Inbound	Gross	111660 lb
Out	09/15/2021 14:53:46	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	71760 lb
					Tons	35.88

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.88	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.88	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64604
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container#
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 15:31:09	Scale 1	Operator kfunk2	Inbound	Gross	115680 lb
Out	09/15/2021 15:31:09		kfunk2		Tare	39900 lb
					Net	75780 lb
					Tons	37.89

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.89	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	37.89	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: <u>9/15/21</u>	Invoice No: <u>69408</u>
Truck No: <u>26</u>	Truck Type: <u>flat</u>
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: <u>3.25</u>

Customer: <u>ALDERMAN ENVU</u>	Job Address: <u>3301 E MARSHALL SEATTLE</u>
Billing Address:	Job Number:

Start: <u>1010</u>	Stop: <u>200</u>	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
<u>Exp</u>	<u>SEATTLE (1015-1100)</u>	<u>SEATTLE W/M</u>	<u>64552</u>	<u>36.49</u>
			<u>64563</u>	<u>33.45</u>
			<u>64576</u>	<u>33.77</u>
			<u>64585</u>	<u>34.31</u>
<u>OUT @ 2 WITH TRAILER ISSUE</u>				

Driver's Signature: <u>X [Signature]</u>	Print Name: <u>[Signature]</u>	Authorized Co. Rep. Signature: <u>X [Signature]</u>	Print Name: <u>[Signature]</u>
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1½% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64552
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 11:36:45	Scale 1	Operator	Inbound	Gross	111240 lb
Out	09/15/2021 11:51:52	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	70980 lb
					Tons	35.49

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.49	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.49	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64563
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	107160 lb
In	09/15/2021 12:29:17	Scale 1	kfunk2		Tare	40260 lb
Out	09/15/2021 12:29:17		kfunk2		Net	66900 lb
					Tons	33.45

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.45	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.45	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64576
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	107800 lb
In	09/15/2021 13:12:04	Scale 1	kfunk2		Tare	40260 lb
Out	09/15/2021 13:12:04		kfunk2		Net	67540 lb
					Tons	33.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.77	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

RK



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64585
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/15/2021 13:45:46	Scale 1	Operator kfunk2	Inbound	Gross	108880 lb
Out	09/15/2021 13:45:46		Operator kfunk2		Tare	40260 lb
					Net	68620 lb
					Tons	34.31

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.31	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.31	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/15/21	Invoice No: 69279
Truck No: 2	Truck Type: TWT
Truck Rate:	Trailer:
Truck Hours: 5.45	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E Marginal Way S
Billing Address:	Job Number:

Start: 10:15	Stop: 345	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Jobsite	7400 8th ave Seattle	64555	TONS 32.78
			64566	32.25
			64578	32.98
			64588	35.14
			64592	37.18
			64600	36.45
			13903	40.00

7 loads

Driver's Signature:	Print Name: Chance Brewington	Authorized Co. Rep. Signature:	Print Name:
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8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64592
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/15/2021 14:33:14	Scale 1	Operator	Inbound	Gross	114940 lb
Out	09/15/2021 14:33:14	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	74360 lb
					Tons	37.18

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.18	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	37.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64600
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	113480 lb
In	09/15/2021 15:04:40	Scale 1	kfunk2		Tare	40580 lb
Out	09/15/2021 15:04:40		kfunk2		Net	72900 lb
					Tons	36.45

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.45	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.45	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64588
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/15/2021 13:55:32	Scale 1	Operator kfunk2	Inbound	Gross	110860 lb
Out	09/15/2021 13:55:32	Scale 1	Operator kfunk2		Tare	40580 lb
					Net	70280 lb
					Tons	35.14

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.14	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.14	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64578
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/15/2021 13:16:02	Scale 1	Operator kfunk2	Inbound	Gross	106540 lb
Out	09/15/2021 13:16:02		Operator kfunk2		Tare	40580 lb
					Net	65960 lb
					Tons	32.98

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.98	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.98	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64566
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/15/2021 12:38:26	Scale 1	Operator kfunk2	Inbound	Gross	105080 lb
Out	09/15/2021 12:38:26		kfunk2		Tare	40580 lb
					Net	64500 lb
					Tons	32.25

Comments HAR;LOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.25	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.25	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64555
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/15/2021 11:45:12	Scale 1	Operator kfunk2	Inbound	Gross	106140 lb
Out	09/15/2021 11:45:12	Scale 1	Operator kfunk2		Tare	40580 lb
					Net	65560 lb
					Tons	32.78

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.78	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.78	Tons				

Total Tax
 Total Ticket

Driver's Signature



DUWAMISH RELOAD FACILITY
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON 98108

SCALE TICKET

13903

DATE 7/15/21

TIME 3:39
IN / OUT

CUSTOMER BILLED Porter

ADDRESS _____ DRIVER ON OFF

COMMODITY 135 32.10R

CUST. HAILED 1100R/DW SIZE _____

TRUCK # 412 R.T. # Chavez RECEIPT # _____

803-DUWAMISH

GROSS 111960

TARE 40580

NET _____

AMOUNT _____

WEIGHER DPM



Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: 9-16-2021	Invoice No: 69259
Truck No: 22	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 8 1/2

Customer: Anderson Environmental	Job Address: 8801 E. Marginal Way Seattle
Billing Address:	Job Number:

Start: 8:45	Stop: 3:20	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle WM	64618	30 tons
			64627	33
			64637	33
			64652	31
			64654	33
			64668	33
			64675	34
			64675	35
	2:12	1:07	64711 34	1:12 34
	3:05	1:37	64703	1:48 36

Driver's Signature: X <i>Kevin McAvoy</i>	Print Name: Kevin McAvoy	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name: /
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Signature of this truck invoice will be considered your notice of intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64715
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 15:14:36	Scale 1	Operator kfunk2	Inbound	Gross	110100 lb
Out	09/16/2021 15:14:36		Operator kfunk2		Tare	39900 lb
					Net	70200 lb
					Tons	35.10

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.10	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.10	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64711
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	108060 lb
In	09/16/2021 14:22:40	Scale 1	kfunk2		Tare	39900 lb
Out	09/16/2021 14:22:40		kfunk2		Net	68160 lb
					Tons	34.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.08	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64703
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 13:49:44	Scale 1	Operator	Inbound	Gross	112300 lb
Out	09/16/2021 13:49:44	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	72400 lb
					Tons	36.20

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.20	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.20	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64697
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 13:13:59	Scale 1	Operator kfunk2	Inbound	Gross	109640 lb
Out	09/16/2021 13:13:59		Operator kfunk2		Tare	39900 lb
					Net	69740 lb
					Tons	34.87

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.87	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	34.87	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64682
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 12:36:54	Scale 1	Operator kfunk2	Inbound	Gross	111560 lb
Out	09/16/2021 12:36:54		Operator kfunk2		Tare	39900 lb
					Net	71660 lb
					Tons	35.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64675
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	108580 lb
In	09/16/2021 12:05:09	Scale 1	kfunk2		Tare	39900 lb
Out	09/16/2021 12:05:09		kfunk2		Net	68680 lb
					Tons	34.34

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.34	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.34	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64668
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 11:24:31	Scale 1	Operator kfunk2	Inbound	Gross	106060 lb
Out	09/16/2021 11:24:31		Operator kfunk2		Tare	39900 lb
					Net	66160 lb
					Tons	33.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.08	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64659
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 10:44:49	Scale	Operator	Inbound	Gross	107640 lb
Out	09/16/2021 10:44:49	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	67740 lb
					Tons	33.87

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.87	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.87	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64652
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	102700 lb
In	09/16/2021 10:02:37	Scale 1	kfunk2		Tare	39900 lb
Out	09/16/2021 10:02:37		kfunk2		Net	62800 lb
					Tons	31.40

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.40	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.40	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *KM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64637
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 09:18:20	Scale	Operator	Inbound	Gross	107040 lb
Out	09/16/2021 09:18:20	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	67140 lb
					Tons	33.57

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.57	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.57	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

K M



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64627
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 08:35:36	Scale	Operator	Inbound	Gross	106840 lb
Out	09/16/2021 08:35:36	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	66940 lb
					Tons	33.47

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.47	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.47	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *K M*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64618
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 07:47:57	Scale 1	Operator kfunk2	Inbound	Gross	101520 lb
Out	09/16/2021 07:47:57		kfunk2		Tare	39900 lb
					Net	61620 lb
					Tons	30.81

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.81	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.81	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-16-21	Invoice No: 69139
Truck No: 4	Truck Type: T75
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 9:00

Customer: Anderson Environmental	Job Address: 8801 E Marginal Way S
Billing Address:	Job Number:

Start: 6:45	Stop: 3:40	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Exp	Marginal Way	8th AVE 64607	34.99	
		64620	32.37	
		64628	23.00	
		64640	31.88	
		64654	34.31	
		64662	32.36	
		64671	34.25	
		64673	31.73	
		64688	37.99	
		64700	36.62	
		64710	38.17	
		64713	32.14	

Driver's Signature: X	Print Name: Tracy Shuman	Authorized Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64609
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

In	09/16/2021 07:25:52	Scale 1	Operator	Inbound	Gross	111740 lb
Out	09/16/2021 07:25:52		kfunk2		Tare	41860 lb
			kfunk2		Net	69880 lb
					Tons	34.94

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.94	Tons				KING
2 EVF-P6-Environmental Fee	100						KING
3 GOND TON-GONDOLA PER TON	100	34.94	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64620
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 07:59:40	Scale 1	Operator kfunk2	Inbound	Gross	106600 lb
Out	09/16/2021 07:59:40	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	64740 lb
					Tons	32.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.37	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64628
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

In	09/16/2021 08:46:54	Scale 1	Operator kfunk2	Inbound	Gross	107860 lb
Out	09/16/2021 08:46:54		kfunk2		Tare	41860 lb
					Net	66000 lb
					Tons	33.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.00	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.00	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64640
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 09:26:38	Scale 1	Operator kfunk2	Inbound	Gross	113620 lb
Out	09/16/2021 09:26:38	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	71760 lb
					Tons	35.88

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.88	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.88	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64654
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 10:09:02	Scale 1	Operator	Inbound	Gross	110620 lb
Out	09/16/2021 10:09:02	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	68760 lb
					Tons	34.38

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.38	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.38	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64662
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In 09/16/2021 11:00:15 Scale 1
 Out 09/16/2021 11:00:15 Scale 1

Operator
 kfunk2
 kfunk2

Inbound

Gross
 Tare
 Net
 Tons

106580 lb
 41860 lb
 64720 lb
 32.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64671
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 11:39:14	Scale 1	Operator	Inbound	Gross	111120 lb
Out	09/16/2021 11:39:14	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	69260 lb
					Tons	34.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64678
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 12:14:30	Scale 1	Operator kfunk2	Inbound	Gross	113720 lb
Out	09/16/2021 12:14:30		kfunk2		Tare	41860 lb
					Net	71860 lb
					Tons	35.93

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.93	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.93	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64688
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

In	09/16/2021 12:50:41	Scale 1	Operator kfunk2	Inbound	Gross	116840 lb
Out	09/16/2021 12:50:41		Operator kfunk2		Tare	41860 lb
					Net	74980 lb
					Tons	37.49

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.49	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	37.49	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64700
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 13:29:46	Scale 1	Operator	Inbound	Gross	115100 lb
Out	09/16/2021 13:29:46	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	73240 lb
					Tons	36.62

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.62	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.62	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64710
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 14:09:52	Scale	Operator	Inbound	Gross	118200 lb
Out	09/16/2021 14:09:52	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	76340 lb
					Tons	38.17

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.17	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	38.17	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64713

Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	106800 lb
In	09/16/2021 14:52:32	Scale 1	kfunk2		Tare	41860 lb
Out	09/16/2021 14:52:32		kfunk2		Net	64940 lb
					Tons	32.47

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.47	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.47	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64716
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 15:24:00	Scale 1	Operator kfunk2	Inbound	Gross	108720 lb
Out	09/16/2021 15:24:00	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	66860 lb
					Tons	33.43

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.43	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.43	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/16/21	Invoice No: 69409
Truck No: 20	Truck Type: 1 1/2 T
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 3.5

Customer: ANDERSON FAR.	Job Address: 8400 E MARSHALL SEATTLE
Billing Address:	Job Number:

Start: 645	Stop: 315	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
EXPORT/WASTE	SEATTLE E. MARSHALL	SEATTLE W. M.	6463	32.83
			64624	33.30
			64653	32.90
			64645	36.43
			64655	32.22
			64663	33.25
			64672	36.52
			64680	39.97
			64694	35.77
			64700	38.71
			64712	32.92
		12 LOADS	64714	32.97

Driver's Signature: X <i>[Signature]</i>	Print Name: PHAN K	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name: I
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64613
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 07:35:19	Scale 1	Operator	Inbound	Gross	105920 lb
Out	09/16/2021 07:35:19	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	65660 lb
					Tons	32.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64624
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	Time	Scale	Operator	Inbound	Gross	106980 lb
09/16/2021	08:22:58	Scale 1	kfunk2		Tare	40260 lb
Out	09/16/2021	08:22:58	kfunk2		Net	66720 lb
					Tons	33.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64633
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 08:59:18	Scale 1	Operator	Inbound	Gross	104860 lb
Out	09/16/2021 08:59:18	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	64600 lb
					Tons	32.30

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.30	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.30	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64645
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	113120 lb
In	09/16/2021 09:40:48	Scale 1	kfunk2		Tare	40260 lb
Out	09/16/2021 09:40:48		kfunk2		Net	72860 lb
					Tons	36.43

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.43	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.43	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *RK*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64655
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 10:12:55	Scale 1	Operator kfunk2	Inbound	Gross	104700 lb
Out	09/16/2021 10:12:55		Operator kfunk2		Tare	40260 lb
					Net	64440 lb
					Tons	32.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.22	Tons				

Total Tax
 Total Ticket

Driver's Signature

RK



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64663
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 11:04:03	Scale 1	Operator kfunk2	Inbound	Gross	108160 lb
Out	09/16/2021 11:04:03	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	67900 lb
					Tons	33.95

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.95	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.95	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64672
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 11:54:19	Scale 1	Operator	Inbound	Gross	111300 lb
Out	09/16/2021 11:54:19	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	71040 lb
					Tons	35.52

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.52	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	35.52	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64680
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 12:30:57	Scale	Operator	Inbound	Gross	112200 lb
Out	09/16/2021 12:30:57	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	71940 lb
					Tons	35.97

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.97	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.97	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *RK*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64694
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 13:07:03	Scale 1	Operator	Inbound	Gross	107800 lb
Out	09/16/2021 13:07:03	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	67540 lb
					Tons	33.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.77	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64705
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 13:54:45	Scale 1	Operator	Inbound	Gross	117680 lb
Out	09/16/2021 13:54:45	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	77420 lb
					Tons	38.71

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.71	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	38.71	Tons				

Total Tax
 Total Ticket

Driver's Signature

RK



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64712
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	105900 lb
In	09/16/2021 14:29:54	Scale 1	kfunk2		Tare	40260 lb
Out	09/16/2021 14:29:54		kfunk2		Net	65640 lb
					Tons	32.82

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.82	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.82	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64714
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver RYAN KRIZAN
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 15:09:49	Scale 1	Operator	Inbound	Gross	106200 lb
Out	09/16/2021 15:09:49	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	65940 lb
					Tons	32.97

Comments HARLOW-KE

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.97	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.97	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/16/21	Invoice No: 69280
Truck No: 2	Truck Type:
Truck Rate:	Trailer:
Truck Hours:	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E marginal way s seattle
Billing Address:	Job Number:

Start: 645	Stop:	Lunch:	Downtime:	Reason: Blew tire at 11:20 tire back on at 150
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Jobsite	7400 8th ave s seattle	64615	33.88
			64625	32.61
			64636	34.61
	* FLAT TIRE *		64650	33.15
			64660	38.49
			64707	36.38
6 loads				

Driver's Signature:	Print Name: Chance Brewington	Authorized Co. Rep. Signature:	Print Name: Craig Nelson
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64707
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	113340 lb
In	09/16/2021 13:58:40	Scale 1	kfunk2		Tare	40580 lb
Out	09/16/2021 13:58:40		kfunk2		Net	72760 lb
					Tons	36.38

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.38	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.38	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reldad
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64660
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/16/2021 10:51:04	Scale 1	Operator	Inbound	Gross	117560 lb
Out	09/16/2021 10:51:04	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	76980 lb
					Tons	38.49

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.49	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	38.49	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64650
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	106880 lb
In	09/16/2021 09:59:35	Scale 1	kfunk2		Tare	40580 lb
Out	09/16/2021 09:59:35		kfunk2		Net	66300 lb
					Tons	33.15

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.15	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.15	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64636
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 09:10:00	Scale 1	Operator	Inbound	Gross	109800 lb
Out	09/16/2021 09:10:00	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	69220 lb
					Tons	34.61

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.61	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.61	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64625
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 08:28:25	Scale	Operator	Inbound	Gross	105800 lb
Out	09/16/2021 08:28:25	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	65220 lb
					Tons	32.61

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.61	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.61	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

CB



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64615
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/16/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/16/2021 07:39:21	Scale 1	Operator	Inbound	Gross	108340 lb
Out	09/16/2021 07:39:21	Scale 1	Operator		Tare	40580 lb
			Operator		Net	67760 lb
			Operator		Tons	33.88

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.88	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.88	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64605
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/15/2021
 Payment Type Credit Account
 Manual Ticket# 13903
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Time Scale
 In 09/15/2021 15:39:19 Scale 1
 Out 09/15/2021 15:39:19

Operator Inbound Gross 111960 lb*
 kfunk2 Tare 40580 lb*
 kfunk2 Net 71380 lb
 * Manual Weight Tons 35.69

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.69	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.69	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Yesterday 9/15/21



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-20-21	Invoice No: 69141
Truck No: 4	Truck Type: T2
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 8.0

Customer: Anderson Environmental	Job Address: 8th Marginal Way S Seattle
Billing Address:	Job Number: PACCAK

Start: 8:00 AM	Stop: 3:40	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Exp	Marginal Way	8th AVE 64780	28.99	
		64782	32.22	
		64807	33.08	
		64816	34.91	
		64822	33.23	
		64831	26.38	
		64834	30.00	
		64836	32.06	
Didn't get put on pink copy		64841	36.99 *	
		64843	31.54	

Driver's Signature:	Print Name: Tracy Stone	Authorized Co. Rep. Signature:	Print Name: 1
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64780
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	99840 lb
In	09/20/2021 08:23:36	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 08:23:36		kfunk2		Net	57980 lb
					Tons	28.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.99	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64792
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 09:01:16	Scale 1	Operator kfunk2	Inbound	Gross	106420 lb
Out	09/20/2021 09:01:16		Operator kfunk2		Tare	41860 lb
					Net	64560 lb
					Tons	32.28

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.28	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.28	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64807
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	108020 lb
In	09/20/2021 09:45:04	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 09:45:04		kfunk2		Net	66160 lb
					Tons	33.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.08	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64816
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	111680 lb
In	09/20/2021 10:26:08	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 10:26:08		kfunk2		Net	69820 lb
					Tons	34.91

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.91	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.91	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64822
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

In	09/20/2021 11:06:05	Scale	Operator	Inbound	Gross	108320 lb
Out	09/20/2021 11:06:05	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	66460 lb
					Tons	33.23

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.23	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.23	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64831
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	94620 lb
In	09/20/2021 12:02:12	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 12:02:12		kfunk2		Net	52760 lb
					Tons	26.38

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.38	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	26.38	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64834
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	101860 lb
In	09/20/2021 12:56:16	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 12:56:16		kfunk2		Net	60000 lb
					Tons	30.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.00	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	30.00	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
7400 8th Ave S
Seattle, WA, 98108

Original
Ticket# 64836
Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
Ticket Date 09/20/2021
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# TBD/135321OR

Carrier SELF SELF
Vehicle# H4
Container
Driver TRACY SHRUM
Check#
Billing# 0000392
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	105980 lb
In	09/20/2021 13:38:42	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 13:38:42		kfunk2		Net	64120 lb
					Tons	32.06

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.06	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.06	Tons				

Total Tax
Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64841
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	115840 lb
In	09/20/2021 14:27:56	Scale 1	kfunk2		Tare	41860 lb
Out	09/20/2021 14:27:56		kfunk2		Net	73980 lb
					Tons	36.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	36.99	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64843
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 15:19:17	Scale 1	Operator kfunk2	Inbound	Gross	104940 lb
Out	09/20/2021 15:19:17	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	63080 lb
					Tons	31.54

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.54	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.54	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-20-2021	Invoice No: 69262
Truck No: 22	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 7 3/4

Customer: Anderson Environmental	Job Address: 8201 E Marginal Way South Seattle
Billing Address:	Job Number: PACAK

Start: 8:05	Stop: 3:45	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle WM	64784	32
			64795	24
			64813	33
			64819	32
			64824	32
			64832	25
			64835	31
			64840	30
			64842	35
			64844	32

Driver's Signature: X <i>[Signature]</i>	Print Name: Kevin McAvoy	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64844
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELE
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	105080 lb
In	09/20/2021 15:28:46	Scale 1	kfunk2		Tare	39900 lb
Out	09/20/2021 15:28:46		kfunk2		Net	65180 lb
					Tons	32.59

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.59	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.59	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64842
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 14:38:25	Scale 1	Operator kfunk2	Inbound	Gross	110720 lb
Out	09/20/2021 14:38:25	Scale 1	Operator kfunk2		Tare	39900 lb
					Net	70820 lb
					Tons	35.41

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.41	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.41	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64840
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 13:51:12	Scale	Operator	Inbound	Gross	101240 lb
Out	09/20/2021 13:51:12	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	61340 lb
					Tons	30.67

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.67	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.67	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64835
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In 09/20/2021 13:08:21 Scale 1
 Out 09/20/2021 13:08:21 Scale 1

Operator
 kfunk2
 kfunk2

Inbound Gross 102280 lb
 Tare 39900 lb
 Net 62380 lb
 Tons 31.19

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.19	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.19	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64832
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 12:14:14	Scale 1	Operator kfunk2	Inbound	Gross	90840 lb
Out	09/20/2021 12:14:14		Operator kfunk2		Tare	39900 lb
					Net	50940 lb
					Tons	25.47

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	25.47	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	25.47	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64824
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In 09/20/2021 11:21:47 Scale 1
 Out 09/20/2021 11:21:47

Operator
 kfunk2
 kfunk2

Inbound Gross 104300 lb
 Tare 39900 lb
 Net 64400 lb
 Tons 32.20

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.20	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.20	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64819
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 10:34:29	Scale 1	Operator kfunk2	Inbound	Gross	104540 lb
Out	09/20/2021 10:34:29		Operator kfunk2		Tare	39900 lb
					Net	64640 lb
					Tons	32.32

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.32	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.32	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64813

Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 09:58:42	Scale 1	Operator	Inbound	Gross	107560 lb
Out	09/20/2021 09:58:42		kfunk2		Tare	39900 lb
			kfunk2		Net	67660 lb
					Tons	33.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64795
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 09:12:56	Scale 1	Operator kfunk2	Inbound	Gross	98680 lb
Out	09/20/2021 09:12:56		Operator kfunk2		Tare	39900 lb
					Net	58780 lb
					Tons	29.39

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.39	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.39	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *KM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64784
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/20/2021 08:30:36	Scale	1	Operator	kfunk2	Inbound	Gross	105160 lb
Out	09/20/2021 08:30:36	Scale	1	Operator	kfunk2		Tare	39900 lb
							Net	65260 lb
							Tons	32.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-21-21	Invoice No: 69310
Truck No: 9	Truck Type: TNT
Truck Rate:	Trailer: 9
Truck Hours: 8.25	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E MARSHAL WAY S Seattle
Billing Address:	Job Number:

Start: 700	Stop: 315	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
EXPORT	Seattle	Seattle	64852	31.31
			64860	27.94
			64869	29.64
			64880	32.38
			64888	29.08
			64901	29.83
			64914	32.07
			64929	31.88
			64953	35.15
			64957	26.56

10 LOADS

Driver's Signature: X	Print Name: Byron Penor	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64852
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	106040 lb
In	09/21/2021 07:30:15	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 07:38:38	Scale 1	kfunk2		Net	62740 lb
					Tons	31.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.37	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64860
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	99180 lb
In	09/21/2021 08:11:53	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 08:11:53		kfunk2		Net	55880 lb
					Tons	27.94

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.94	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.94	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64869
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	102580 lb
In	09/21/2021 08:49:22	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 08:49:22		kfunk2		Net	59280 lb
					Tons	29.64

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.64	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.64	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64880
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	108060 lb
In	09/21/2021 09:30:10	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 09:30:10		kfunk2		Net	64760 lb
					Tons	32.38

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.38	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.38	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64888
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	101460 lb
In	09/21/2021 10:05:11	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 10:05:11		kfunk2		Net	58160 lb
					Tons	29.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.08	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64901
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	102960 lb
In	09/21/2021 10:58:55	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 10:58:55		kfunk2		Net	59660 lb
					Tons	29.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64914
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	107440 lb
In	09/21/2021 11:57:41	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 11:57:41		kfunk2		Net	64140 lb
					Tons	32.07

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.07	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.07	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64929
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	107060 lb
In	09/21/2021 12:49:08	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 12:49:08		kfunk2		Net	63760 lb
					Tons	31.88

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.88	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.88	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64953
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	113600 lb
In	09/21/2021 14:17:45	Scale 1	kfunk2		Tare	43300 lb
Out	09/21/2021 14:17:45		kfunk2		Net	70300 lb
					Tons	35.15

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.15	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.15	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64957
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 15:04:00	Scale 1	Operator kfunk2	Inbound	Gross	96420 lb
Out	09/21/2021 15:04:00		Operator kfunk2		Tare	43300 lb
					Net	53120 lb
					Tons	26.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.56	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	26.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-21-2021	Invoice No: 69263
Truck No: 22	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 7 1/4

Customer: Anderson Environmental	Job Address: 8801 E. Marginal Way South Seattle
Billing Address:	Job Number:

Start: 7:10	Stop: 3:30	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle WM	64853	28
			64862	29
			64871	29
			64882	31
			64893	27
			64902	28
			64915	27
			64926	33
			64940	31
	3:10	2:16 3:25	64954	33

Driver's Signature: X <i>Kevin McAvoy</i>	Print Name: Kevin McAvoy	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64958
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	106620 lb
In	09/21/2021 15:15:06	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 15:15:06		kfunk2		Net	66720 lb
					Tons	33.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.36	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64954
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	107560 lb
In	09/21/2021 14:25:48	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 14:25:48		kfunk2		Net	67660 lb
					Tons	33.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64940
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	103680 lb
In	09/21/2021 13:18:58	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 13:18:58		kfunk2		Net	63780 lb
					Tons	31.89

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.89	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.89	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

K. M



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64926
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	105920 lb
In	09/21/2021 12:42:36	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 12:42:36		kfunk2		Net	66020 lb
					Tons	33.01

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.01	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.01	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64915
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	94980 lb
In	09/21/2021 11:59:45	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 11:59:45		kfunk2		Net	55080 lb
					Tons	27.54

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.54	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.54	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64902
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	97200 lb
In	09/21/2021 11:04:07	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 11:04:07		kfunk2		Net	57300 lb
					Tons	28.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.65	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.65	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64893
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	94540 lb
In	09/21/2021 10:25:09	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 10:25:09		kfunk2		Net	54640 lb
					Tons	27.32

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.32	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.32	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64882
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	102340 lb
In	09/21/2021 09:42:37	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 09:42:37		kfunk2		Net	62440 lb
					Tons	31.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64871
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	98000 lb
In	09/21/2021 08:51:45	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 08:51:45		kfunk2		Net	58100 lb
					Tons	29.05

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.05	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.05	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64862
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	99640 lb
In	09/21/2021 08:19:20	Scale 1	kfunk2		Tare	39900 lb
Out	09/21/2021 08:19:20		kfunk2		Net	59740 lb
					Tons	29.87

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.87	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.87	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64853
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 07:32:27	Scale 1	Operator kfunk2	Inbound	Gross	97780 lb
Out	09/21/2021 07:32:27		Operator kfunk2		Tare	39900 lb
					Net	57880 lb
					Tons	28.94

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.94	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.94	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/21/21	Invoice No: 69283
Truck No: 2	Truck Type: TWT
Truck Rate:	Trailer:
Truck Hours: 8.30	Driver Hours:

Customer: Anderson Environmental	Job Address: 889 E Marginal ways
Billing Address:	Job Number:

Start: 7:10	Stop: 3:20	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
EXPORT contaminated	Jobsite	7400 8th ave S	64854	30.24
			64864	29.77
			64876	31.88
			64874	28.17
			64908	30.04
			64918	27.21
			64932	32.48
			64952	38.63
			64956	31.07
	9 loads			

Driver's Signature: X	Print Name: Chance Brewington	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64956
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 15:00:33	Scale 1	Operator	Inbound	Gross	102720 lb
Out	09/21/2021 15:00:33	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	62140 lb
					Tons	31.07

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.07	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.07	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64952
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	117840 lb
In	09/21/2021 14:14:28	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 14:14:28		kfunk2		Net	77260 lb
					Tons	38.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	38.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64932
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	105540 lb
In	09/21/2021 12:58:44	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 12:58:44		kfunk2		Net	64960 lb
					Tons	32.48

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.48	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.48	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

CB



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64918
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	95000 lb
In	09/21/2021 12:07:11	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 12:07:11		kfunk2		Net	54420 lb
					Tons	27.21

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.21	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	27.21	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64908
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	100660 lb
In	09/21/2021 11:18:57	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 11:18:57		kfunk2		Net	60080 lb
					Tons	30.04

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.04	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.04	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64894
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

		Scale	Operator	Inbound	Gross	96920 lb
In	09/21/2021 10:26:14	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 10:26:14		kfunk2		Net	56340 lb
					Tons	28.17

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.17	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.17	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64876
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	102940 lb
In	09/21/2021 09:15:11	Scale 1	kfunk2		Tare	40580 lb
Out	09/21/2021 09:15:11		kfunk2		Net	62360 lb
					Tons	31.18

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.18	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64864
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 08:27:45	Scale 1	Operator	Inbound	Gross	100120 lb
Out	09/21/2021 08:27:45		kfunk2		Tare	40580 lb
			kfunk2		Net	59540 lb
					Tons	29.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.77	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64854
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/21/2021 07:41:45	Scale 1	Operator kfunk2	Inbound	Gross	101060 lb
Out	09/21/2021 07:41:45		Operator kfunk2		Tare	40580 lb
					Net	60480 lb
					Tons	30.24

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.24	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	30.24	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-21-21	Invoice No: 69142
Truck No: 4	Truck Type: T&T
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 8.0

Customer: Anderson Environmental	Job Address: 8801 Emerald Way S Seattle
Billing Address:	Job Number:

Start: 7:00	Stop: 3:00	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Exp	Marginal Way	824 Ave 64847	30.46	
		64857	31.99	
	64955	82.45 / 64867	30.73	
		64877	30.61	
		64871	29.60	
		64900	29.71	
		64711	29.31	
		64923	27.15	
		64936	30.98	
		64949	30.82	

Driver's Signature: X	Print Name: TRACY SHERM	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64849
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	102780 lb
In	09/21/2021 07:19:10	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 07:19:10		kfunk2		Net	60920 lb
					Tons	30.46

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.46	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.46	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64858
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 08:00:05	Scale	Operator	Inbound	Gross	104740 lb
Out	09/21/2021 08:00:05	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	62880 lb
					Tons	31.44

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.44	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.44	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64867
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	103320 lb
In	09/21/2021 08:37:44	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 08:37:44		kfunk2		Net	61460 lb
					Tons	30.73

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.73	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.73	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64891
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/21/2021 10:14:39	Scale 1	Operator	Inbound	Gross	101060 lb
Out	09/21/2021 10:14:39		kfunk2		Tare	41860 lb
			kfunk2		Net	59200 lb
					Tons	29.60

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.60	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.60	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64877
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	103080 lb
In	09/21/2021 09:18:48	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 09:18:48		kfunk2		Net	61220 lb
					Tons	30.61

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.61	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.61	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64900
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

		Time	Scale	Operator	Inbound	Gross	101760 lb
In	09/21/2021	10:57:27	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021	10:57:27		kfunk2		Net	59900 lb
						Tons	29.95

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.95	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.95	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64911
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	100540 lb
In	09/21/2021 11:48:52	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 11:48:52		kfunk2		Net	58680 lb
					Tons	29.34

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.34	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	29.34	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64923
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	100180 lb
In	09/21/2021 12:25:54	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 12:25:54		kfunk2		Net	58320 lb
					Tons	29.16

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.16	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.16	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64936
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	103820 lb
In	09/21/2021 13:08:16	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 13:08:16		kfunk2		Net	61960 lb
					Tons	30.98

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.98	Tons				RING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	30.98	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64949
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	103500 lb
In	09/21/2021 13:55:05	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 13:55:05		kfunk2		Net	61640 lb
					Tons	30.82

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.82	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.82	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64955
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/21/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	106720 lb
In	09/21/2021 14:42:30	Scale 1	kfunk2		Tare	41860 lb
Out	09/21/2021 14:42:30		kfunk2		Net	64860 lb
					Tons	32.43

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.43	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.43	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-22-2021	Invoice No: 69264
Truck No: 22	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 7 1/2

Customer: Anderson Environmental	Job Address: 8801 E Marginal Way South Seattle
Billing Address:	Job Number:

Start: 7:10	Stop: 2:40	Lunch:	Downtime:	Reason:
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MATERIAL	FROM		TO		NO. LOADS	HOURS
Export	Seattle	7:50	Seattle WM	8:01	64974	34
		8:48		8:58	64989	36
		9:34		9:41	64998	33
		10:23		10:40	65013	30
		11:22		11:34	65034	31
		12:07		12:14	65052	32
		1:22		1:31	65076	34
		2:30		2:40	65085	29

Driver's Signature: X <i>Kevin McAvoy</i>	Print Name: Kevin McAvoy	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name: 1
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65085
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 14:34:07	Scale 1	Operator	Inbound	Gross	98940 lb
Out	09/22/2021 14:34:07	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	59040 lb
					Tons	29.52

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.52	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.52	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65076
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 13:31:03	Scale 1	Operator kfunk2	Inbound	Gross	108200 lb
Out	09/22/2021 13:31:03		Operator kfunk2		Tare	39900 lb
					Net	68300 lb
					Tons	34.15

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.15	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.15	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65052
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 12:19:37	Scale	Operator	Inbound	Gross	105220 lb
Out	09/22/2021 12:19:37	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	65320 lb
					Tons	32.66

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.66	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.66	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65034
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 11:34:29	Scale 1	Operator kfunk2	Inbound	Gross	102060 lb
Out	09/22/2021 11:34:29		Operator kfunk2		Tare	39900 lb
					Net	62160 lb
					Tons	31.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	31.08	Tons				

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65013
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 10:40:18	Scale	Operator	Inbound	Gross	101740 lb
Out	09/22/2021 10:40:18	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	61840 lb
					Tons	30.92

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.92	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.92	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64998
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	106840 lb
In	09/22/2021 09:41:42	Scale 1	kfunk2		Tare	39900 lb
Out	09/22/2021 09:41:42		kfunk2		Net	66940 lb
					Tons	33.47

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.47	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.47	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64989
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 08:58:46	Scale 1	Operator kfunk2	Inbound	Gross	112300 lb
Out	09/22/2021 08:58:46	Scale 1	Operator kfunk2		Tare	39900 lb
					Net	72400 lb
					Tons	36.20

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.20	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.20	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64974
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MACAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	108220 lb
In	09/22/2021 08:03:17	Scale 1	kfunk2		Tare	39900 lb
Out	09/22/2021 08:03:17		kfunk2		Net	68320 lb
					Tons	34.16

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.16	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.16	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/22/21	Invoice No: 69161
Truck No: 21	Truck Type: X for
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 7 3/4

Customer: Anderson Environmental	Job Address: 8801 E Margard Way Seattle
Billing Address:	Job Number:

Start: 7:00	Stop: 2:45	Lunch:	Downtime: 10:31-10:51 / 1:35-2:07	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	East Margard Way Seattle	V. M. Seattle	64971	
			64992	
			65003	
			65027	
			65047	
			65070	
			65084	

Driver's Signature: X	Print Name: Brian Melby	Authorized Co. Rep. Signature: X	Print Name: Brian Melby
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65084
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 14:28:11	Scale 1	Operator	Inbound	Gross	105920 lb
Out	09/22/2021 14:28:11	Scale 1	kfunk2		Tare	41860 lb
					Net	64060 lb
					Tons	32.03

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.03	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.03	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65070
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 13:10:56	Scale 1	Operator kfunk2	Inbound	Gross	96400 lb
Out	09/22/2021 13:10:56		Operator kfunk2		Tare	41860 lb
					Net	54540 lb
					Tons	27.27

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.27	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.27	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

B.M.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65047
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 12:10:37	Scale 1	Operator kfunk2	Inbound	Gross	104940 lb
Out	09/22/2021 12:10:37		Operator kfunk2		Tare	41860 lb
					Net	63080 lb
					Tons	31.54

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.54	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.54	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65027
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 11:17:35	Scale 1	Operator kfunk2	Inbound	Gross	98100 lb
Out	09/22/2021 11:17:35		Operator kfunk2		Tare	41860 lb
					Net	56240 lb
					Tons	28.12

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.12	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.12	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *BM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65003
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 09:58:31	Scale 1	Operator kfunk2	Inbound	Gross	99040 lb
Out	09/22/2021 09:58:31		Operator kfunk2		Tare	41860 lb
					Net	57180 lb
					Tons	28.59

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.59	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.59	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64992
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 09:07:38	Scale 1	Operator kfunk2	Inbound	Gross	104480 lb
Out	09/22/2021 09:07:38		Operator kfunk2		Tare	41860 lb
					Net	62620 lb
					Tons	31.31

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.31	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	31.31	Tons				

Total Tax
 Total Ticket

Driver's Signature

BM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64971
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 07:58:54	Scale 1	Operator kfunk2	Inbound	Gross	107560 lb
Out	09/22/2021 08:24:01	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	65700 lb
					Tons	32.85

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.85	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.85	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BM



Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: 9-22-04	Invoice No: 69143
Truck No: 4	Truck Type: TJA
Truck Rate:	Trailer:
Truck Hours:	Driver Hours:

Customer: Andersen Environmental	Job Address: 8801 E Marginal Way S Seattle
Billing Address:	Job Number:

Start: 7:00	Stop:	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Exp	Marginal Way	8th Ave 64970	32.71	
		64982	32.87	
		64995	32.05	
		65007	33.67	
		65027	31.13	
		65042	32.63	
		65061	31.21	
		65081	31.90	
		65087	33.03	

Driver's Signature: X	Print Name: TRACY SHAW	Authorized Co. Rep. Signature: X	Print Name: 1
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64970
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 07:55:31	Scale 1	Operator	Inbound	Gross	107280 lb
Out	09/22/2021 07:55:31		kfunk2		Tare	41860 lb
			kfunk2		Net	65420 lb
					Tons	32.71

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.71	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.71	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64995
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 09:30:01	Scale 1	Operator kfunk2	Inbound	Gross	105960 lb
Out	09/22/2021 09:30:01		kfunk2		Tare	41860 lb
					Net	64100 lb
					Tons	32.05

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.05	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.05	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64988
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 08:49:02	Scale 1	Operator kfunk2	Inbound	Gross	107640 lb
Out	09/22/2021 08:49:02		kfunk2		Tare	41860 lb
					Net	65780 lb
					Tons	32.89

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.89	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.89	Tons				

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65007
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 10:17:14	Scale 1	Operator	Inbound	Gross	109120 lb
Out	09/22/2021 10:17:14		kfunk2		Tare	41860 lb
					Net	67260 lb
					Tons	33.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65029
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 11:23:00	Scale 1	Operator	Inbound	Gross	104120 lb
Out	09/22/2021 11:23:00	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	62260 lb
					Tons	31.13

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.13	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.13	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65061
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 12:45:57	Scale 1	Operator kfunk2	Inbound	Gross	104280 lb
Out	09/22/2021 12:45:57	Scale 1	Operator kfunk2		Tare	41860 lb
					Net	62420 lb
					Tons	31.21

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.21	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.21	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65042
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 12:01:44	Scale 1	Operator	Inbound	Gross	107120 lb
Out	09/22/2021 12:01:44	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	65260 lb
					Tons	32.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65081
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 13:52:18	Scale 1	Operator kfunk2	Inbound	Gross	104700 lb
Out	09/22/2021 13:52:18		Operator kfunk2		Tare	41860 lb
					Net	62840 lb
					Tons	31.42

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.42	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.42	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65089
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 14:53:35	Scale 1	Operator	Inbound	Gross	107960 lb
Out	09/22/2021 14:53:35	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	66100 lb
					Tons	33.05

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.05	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.05	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: 9/22/21	Invoice No: 69284
Truck No: Z	Truck Type: TMT
Truck Rate:	Trailer: L
Truck Hours: 2000	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E Marginal way S Seattle
Billing Address:	Job Number:

Start: 700	Stop: 225	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Jobsite	7400 8th ave S Seattle	64980	33.56 tons
			65002	31.42
			65018	30.48
			65037	33.69
			65056	32.14
			65079	30.83
			65088	31.37
7 loads				

Driver's Signature: X	Print Name: Chance Brewington	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65088
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 14:47:43	Scale 1	Operator kfunk2	Inbound	Gross	103320 lb
Out	09/22/2021 14:47:43	Scale 1	Operator kfunk2		Tare	40580 lb
					Net	62740 lb
					Tons	31.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.37	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65079
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 13:45:37	Scale 1	Operator kfunk2	Inbound	Gross	102240 lb
Out	09/22/2021 13:45:37		Operator kfunk2		Tare	40580 lb
					Net	61660 lb
					Tons	30.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65056
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 12:34:28	Scale 1	Operator kfunk2	Inbound	Gross	104860 lb
Out	09/22/2021 12:34:28	Scale 1	Operator kfunk2		Tare	40580 lb
					Net	64280 lb
					Tons	32.14

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.14	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.14	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65037
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/22/2021 11:44:24	Scale 1	Operator	Inbound	Gross	107960 lb
Out	09/22/2021 11:44:24	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	67380 lb
					Tons	33.69

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.69	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.69	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65018
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 10:50:42	Scale	Operator	Inbound	Gross	101540 lb
Out	09/22/2021 10:50:42	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	60960 lb
					Tons	30.48

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.48	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.48	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65002
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 09:56:51	Scale 1	Operator	Inbound	Gross	103420 lb
Out	09/22/2021 09:56:51		kfunk2		Tare	40580 lb
			kfunk2		Net	62840 lb
					Tons	31.42

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.42	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.42	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

CB



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 64980

Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/22/2021 08:21:46	Scale	1	Operator	kfunk2	Inbound	Gross	107700 lb
Out	09/22/2021 08:21:46	Scale	1	Operator	kfunk2		Tare	40580 lb
							Net	67120 lb
							Tons	33.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.56	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: 9/23/21	Invoice No: 69285
Truck No: 2	Truck Type: TNT
Truck Rate:	Trailer:
Truck Hours: 5000	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E Marginal way Seattle
Billing Address:	Job Number:

Start: 700	Stop: 1015	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Jobsite	7400 8th ave S Seattle	65098	32.53
			65110	29.99
			65121	27.74
			65136	33.24
4 loads				

Driver's Signature:	Print Name: Chance Breving	Authorized Co. Rep. Signature:	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65136
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/23/2021 10:09:55	Scale	Operator	Inbound	Gross	107060 lb
Out	09/23/2021 10:09:55	Scale 1	kfunk2		Tare	40580 lb
			kfunk2		Net	66480 lb
					Tons	33.24

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.24	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.24	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65121
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/23/2021 09:10:19	Scale 1	Operator kfunk2	Inbound	Gross	96060 lb
Out	09/23/2021 09:10:19		Operator kfunk2		Tare	40580 lb
					Net	55480 lb
					Tons	27.74

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.74	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	27.74	Tons				

Total Tax
 Total Ticket

Driver's Signature

CB



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65110
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

In	09/23/2021 08:34:06	Scale 1	Operator kfunk2	Inbound	Gross	100560 lb
Out	09/23/2021 08:34:06		kfunk2		Tare	40580 lb
					Net	59980 lb
					Tons	29.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	29.99	Tons				

Total Tax
 Total Ticket

Driver's Signature

CB



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65098
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H2
 Container
 Driver CHANCE BREWINGTON
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 07:42:32	Scale 1	Operator kfunk2	Inbound	Gross	105640 lb
Out	09/23/2021 07:42:32		kfunk2		Tare	40580 lb
					Net	65060 lb
					Tons	32.53

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.53	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	32.53	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9/23/21	Invoice No: 69162
Truck No: 216	Truck Type: T-T
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 200

Customer: Anderson Environmental	Job Address:
Billing Address:	Job Number:

Start: 7:00	Stop: 10:00	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	7:14 P.M. Seattle	7:25 65096	36.28
		8:09	8:19 65103	28.36
		8:47	8:54 65116	27.75
		9:40	9:49 65129	31.35

Driver's Signature: X <u>[Signature]</u>	Print Name: <u>Brian Wickham</u>	Authorized Co. Rep. Signature: X <u>[Signature]</u>	Print Name: <u>[Blank]</u>
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65129
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 09:49:02	Scale 1	Operator kfunk2	Inbound	Gross	102960 lb
Out	09/23/2021 09:49:02		Operator kfunk2		Tare	40260 lb
					Net	62700 lb
					Tons	31.35

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.35	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.35	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65116
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 08:54:24	Scale	Operator	Inbound	Gross	95760 lb
Out	09/23/2021 08:54:24	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	55500 lb
					Tons	27.75

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.75	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	27.75	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65103
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 08:19:13	Scale 1	Operator	Inbound	Gross	96980 lb
Out	09/23/2021 08:19:13		kfunk2		Tare	40260 lb
			kfunk2		Net	56720 lb
					Tons	28.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Bm



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65096
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 07:25:12	Scale	Operator	Inbound	Gross	112820 lb
Out	09/23/2021 07:25:12	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	72560 lb
					Tons	36.28

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.28	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.28	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *BM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65131
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 09:54:26	Scale 1	Operator kfunk2	Inbound	Gross	102640 lb
Out	09/23/2021 09:54:26		Operator kfunk2		Tare	39900 lb
					Net	62740 lb
					Tons	31.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.37	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65118
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 09:01:24	Scale 1	Operator kfunk2	Inbound	Gross	91520 lb
Out	09/23/2021 09:01:24		Operator kfunk2		Tare	39900 lb
					Net	51620 lb
					Tons	25.81

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	25.81	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	25.81	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65108
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 08:26:38	Scale	Operator	Inbound	Gross	101840 lb
Out	09/23/2021 08:26:38	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	61940 lb
					Tons	30.97

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.97	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.97	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65097
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 07:31:28	Scale 1	Operator kfunk2	Inbound	Gross	103300 lb
Out	09/23/2021 07:31:28	Scale 1	Operator kfunk2		Tare	39900 lb
					Net	63400 lb
					Tons	31.70

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.70	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	31.70	Tons				

Total Tax
 Total Ticket

Driver's Signature *KM*



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-23-21	Invoice No: 69144
Truck No: 4	Truck Type: TDS
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 5:00 6:00

Customer: Peterson Environmental	Job Address: 8801 E Marginal Way S Seattle
Billing Address:	Job Number:

Start: 7:00	Stop: 11:00	Lunch: 1:00-1:30	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
EXP	Marginal Way	8th Ave 65092	26.75	
		65101	28.97	
		65112	27.96	
		65123	31.52	
		65137	11.76	

Driver's Signature: X	Print Name: TRACY SHUM	Authorized Co./Rep. Signature: X	Print Name: I
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65095
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 07:19:12	Scale	1	Operator	kfunk2	Inbound	Gross	115760 lb
Out	09/23/2021 07:19:12	Scale	1	Operator	kfunk2		Tare	41860 lb
							Net	73900 lb
							Tons	36.95

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.95	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.95	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65101
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 08:01:53	Scale	Operator	Inbound	Gross	98800 lb
Out	09/23/2021 08:01:53	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	56940 lb
					Tons	28.47

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.47	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.47	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65112
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 08:39:25	Scale 1	Operator kfunk2	Inbound	Gross	96780 lb
Out	09/23/2021 08:39:25		Operator kfunk2		Tare	41860 lb
					Net	54920 lb
					Tons	27.46

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.46	Tons				KING
2 EVE-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.46	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65123
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 09:21:17	Scale 1	Operator	Inbound	Gross	104960 lb
Out	09/23/2021 09:21:17	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	63100 lb
					Tons	31.55

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.55	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.55	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

TS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65137
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/23/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver TRACY SHRUM
 Check#
 Billing# 0000392
 Grid

Volume

In	09/23/2021 10:13:13	Scale 1	Operator kfunk2	Inbound	Gross	75380 lb
Out	09/23/2021 10:13:13		Operator kfunk2		Tare	41860 lb
					Net	33520 lb
					Tons	16.76

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	16.76	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	16.76	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-24-2021	Invoice No: 69268
Truck No: 28	Truck Type: FF
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 5 1/2

Customer: Anderson Environmental	Job Address: 8801 E. Marginal Way South, Seattle
Billing Address:	Job Number:

Start: 7:00	Stop: 12:31	Lunch: 12:00	Downtime:	Reason:
MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle WM	8:10 65296	43.44
			8:54 65299	32.27
			9:41 65306	34.86
			10:17 65308	35.39
			10:53 65312	34.84
			11:24 65315	33.68
			11:58 65322	33.56
			12:27	

Driver's Signature: X <i>Kevin McHugh</i>	Print Name: Kevin McHugh	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65296
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 08:10:06	Scale 1	Operator kfunk2	Inbound	Gross	127140 lb
Out	09/29/2021 08:10:06		kfunk2		Tare	40260 lb
					Net	86880 lb
					Tons	43.44

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	43.44	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	43.44	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65299
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 08:54:12	Scale 1	Operator kfunk2	Inbound	Gross	104800 lb
Out	09/29/2021 08:54:12	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	64540 lb
					Tons	32.27

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.27	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.27	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65306
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 09:41:39	Scale 1	Operator kfunk2	Inbound	Gross	109980 lb
Out	09/29/2021 09:41:39	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	69720 lb
					Tons	34.86

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.86	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.86	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65308
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 10:17:11	Scale 1	Operator kfunk2	Inbound	Gross	111040 lb
Out	09/29/2021 10:17:11		Operator kfunk2		Tare	40260 lb
					Net	70780 lb
					Tons	35.39

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.39	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.39	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65312
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container#
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 10:53:01	Scale 1	Operator kfunk2	Inbound	Gross	109940 lb
Out	09/29/2021 10:53:01		Operator kfunk2		Tare	40260 lb
					Net	69680 lb
					Tons	34.84

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.84	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.84	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65315
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 11:24:13	Scale 1	Operator kfunk2	Inbound	Gross	107620 lb
Out	09/29/2021 11:24:13	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	67360 lb
					Tons	33.68

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.68	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.68	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65322
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 11:58:51	Scale 1	Operator kfunk2	Inbound	Gross	107380 lb
Out	09/29/2021 11:58:51	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	67120 lb
					Tons	33.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.56	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	33.56	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65325
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 12:27:04	Scale 1	Operator kfunk2	Inbound	Gross	72980 lb
Out	09/29/2021 12:27:04	Scale 1	Operator kfunk2		Tare	40260 lb
					Net	32720 lb
					Tons	16.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	16.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	16.36	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-29-21	Invoice No: 69316
Truck No: 9	Truck Type: TKT
Truck Rate:	Trailer: 9
Truck Hours:	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 B MARGINAL WAY S Seattle
Billing Address:	Job Number:

Start: 7:00	Stop:	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle	65295	42.14
			65298	30.11
			65304	35.70
			65307	36.50
			65310	34.13
			65314	32.24
			65321	32.94
7 LOADS				

Driver's Signature: X	Print Name: Byron Penar	Authorized Co. Rep. Signature: X	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65295
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

In	09/29/2021 07:47:29	Scale 1	Operator kfunk2	Inbound	Gross	127580 lb
Out	09/29/2021 07:47:29		kfunk2		Tare	43300 lb
					Net	84280 lb
					Tons	42.14

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	42.14	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	42.14	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65298
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 08:41:13	Scale	1	Operator	kfunk2	Inbound	Gross	103520 lb
Out	09/29/2021 08:41:13	Scale	1	Operator	kfunk2		Tare	43300 lb
							Net	60220 lb
							Tons	30.11

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.11	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.11	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BF



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65304
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 09:25:27	Scale 1	Operator kfunk2	Inbound	Gross	114700 lb
Out	09/29/2021 09:25:27		kfunk2		Tare	43300 lb
					Net	71400 lb
					Tons	35.70

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.70	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.70	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65307
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 10:12:37	Scale 1	Operator	Inbound	Gross	116300 lb
Out	09/29/2021 10:12:37		kfunk2		Tare	43300 lb
			kfunk2		Net	73000 lb
					Tons	36.50

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.50	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	36.50	Tons				

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65310
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 10:44:29	Scale 1	Operator kfunk2	Inbound	Gross	111560 lb
Out	09/29/2021 10:44:29		Operator kfunk2		Tare	43300 lb
					Net	68260 lb
					Tons	34.13

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.13	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.13	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65314
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	09/29/2021 11:13:24	Scale 1	Operator kfunk2	Inbound	Gross	107780 lb
Out	09/29/2021 11:13:24		Operator kfunk2		Tare	43300 lb
					Net	64480 lb
					Tons	32.24

Comments HARLOW*KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.24	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.24	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65321
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 09/29/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

In	09/29/2021 11:50:07	Scale 1	Operator kfunk2	Inbound	Gross	109180 lb
Out	09/29/2021 11:50:07		Operator kfunk2		Tare	43300 lb
					Net	65880 lb
					Tons	32.94

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.94	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.94	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 9-5-2021	Invoice No: 69271
Truck No: 26	Truck Type: TT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours: 5 1/2

Customer: Anderson Environmental	Job Address: 8901 E Marginal Way South
Billing Address:	Job Number:

Start: 7:10	Stop: 12:40	Lunch:	Downtime:	Reason:
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MATERIAL	FROM		TO		NO. LOADS	HOURS
Export	Seattle	7:32	Seattle WA	7:44	65484	37.25
		8:13		8:24	65495	39.14
		8:53		9:03	65500	37.55
		9:34		9:44	65504	38.04
		10:34		10:52	65507	27.80
		12:11				

Driver's Signature: X <i>Kevin M. Avey</i>	Print Name: Kevin M. Avey	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65489
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 07:44:35	Scale	Operator	Inbound	Gross	114760 lb
Out	10/05/2021 07:44:35	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	74500 lb
					Tons	37.25

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.25	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	37.25	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65495
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 08:24:30	Scale 1	Operator kfunk2	Inbound	Gross	118540 lb
Out	10/05/2021 08:24:30		kfunk2		Tare	40260 lb
					Net	78280 lb
					Tons	39.14

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	39.14	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	39.14	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65500
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 09:03:44	Scale 1	Operator kfunk2	Inbound	Gross	115360 lb
Out	10/05/2021 09:03:44		Operator kfunk2		Tare	40260 lb
					Net	75100 lb
					Tons	37.55

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	37.55	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	37.55	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

KM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65504
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 09:49:38	Scale 1	Operator	Inbound	Gross	116340 lb
Out	10/05/2021 09:49:38	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	76080 lb
					Tons	38.04

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.04	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	38.04	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65507
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 10:52:16	Scale	Operator	Inbound	Gross	95860 lb
Out	10/05/2021 10:52:16	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	55600 lb
					Tons	27.80

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.80	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.80	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65513
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 12:23:11	Scale	Operator	Inbound	Gross	88240 lb
Out	10/05/2021 12:23:11	Scale 1	kfunk2		Tare	40260 lb
			kfunk2		Net	47980 lb
					Tons	23.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	23.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	23.99	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 10/5/21	Invoice No: 69166
Truck No: 22	Truck Type: TIT
Truck Rate:	Trailer:
Truck Hours:	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 E Marginal Way S Seattle
Billing Address:	Job Number:

Start: 7:10	Stop:	Lunch:	Downtime:	Reason: Ticket #
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	W.M. Seattle	65487	34.22
			65491	36.56
			65498	36.23
			65503	27.97
			65512	32.01
			65514	11.46

Driver's Signature: X <i>[Signature]</i>	Print Name: Brian McKinney	Authorized Co. Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65514
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 12:37:49	Scale 1	Operator	Inbound	Gross	62820 lb
Out	10/05/2021 12:37:49	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	22920 lb
					Tons	11.46

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	11.46	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	11.46	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65512
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 11:54:30	Scale	1	Operator	kfunk2	Inbound	Gross	103920 lb
Out	10/05/2021 11:54:30	Scale	1	Operator	kfunk2		Tare	39900 lb
							Net	64020 lb
							Tons	32.01

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.01	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.01	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65505
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 09:59:59	Scale	Operator	Inbound	Gross	95840 lb
Out	10/05/2021 09:59:59	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	55940 lb
					Tons	27.97

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.97	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.97	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BM



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65498
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 09:00:41	Scale	Operator	Inbound	Gross	112360 lb
Out	10/05/2021 09:00:41	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	72460 lb
					Tons	36.23

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.23	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.23	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65491
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 08:01:55	Scale	Operator	Inbound	Gross	113020 lb
Out	10/05/2021 08:01:55	Scale 1	kfunk2		Tare	39900 lb
			kfunk2		Net	73120 lb
					Tons	36.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.56	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65487
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 07:24:39	Scale 1	Operator	Inbound	Gross	108340 lb
Out	10/05/2021 07:24:39		kfunk2		Tare	39900 lb
			kfunk2		Net	68440 lb
					Tons	34.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BM



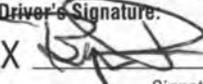
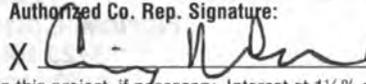
Harlow Construction Company, Inc.
 3123 106th Street South
 Lakewood, WA 98499
 Office: 253-588-4705 - Fax: 253-588-4710
 email: HarlowConst@hotmail.com
 Dispatch: 253-606-5377

Date: 10-5-21	Invoice No: 69319
Truck No: 9	Truck Type: TNT
Truck Rate:	Trailer: 9
Truck Hours: 5.5	Driver Hours:

Customer: Anderson Environmental	Job Address: 8801 EMARGINAL WAY S Seattle
Billing Address:	Job Number:

Start: 200	Stop: 1230	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Seattle	Seattle	65488	36.98
			65494	38.83
			65497	38.38
			65503	40.77
			65506	33.64
			65511	31.19

Driver's Signature: 	Print Name: Byron Rhoar	Authorized Co. Rep. Signature: 	Print Name: Craig Nelson
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65488
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 07:32:42	Scale	Operator	Inbound	Gross	117260 lb
Out	10/05/2021 07:32:42	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	73960 lb
					Tons	36.98

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.98	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.98	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65494
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 08:15:35	Scale 1	Operator kfunk2	Inbound	Gross	120960 lb
Out	10/05/2021 08:15:35		Operator kfunk2		Tare	43300 lb
					Net	77660 lb
					Tons	38.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.83	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	38.83	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65511
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 11:50:50	Scale 1	Operator kfunk2	Inbound	Gross	105680 lb
Out	10/05/2021 11:50:50		Operator kfunk2		Tare	43300 lb
					Net	62380 lb
					Tons	31.19

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.19	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.19	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65497
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 08:59:12	Scale	Operator	Inbound	Gross	120060 lb
Out	10/05/2021 08:59:12	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	76760 lb
					Tons	38.38

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.38	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	38.38	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65503
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9 Volume
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

In	10/05/2021 09:35:38	Scale	Operator	Inbound	Gross	124840 lb
Out	10/05/2021 09:35:38	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	81540 lb
					Tons	40.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	40.77	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	40.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65506
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/05/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/05/2021 10:26:18	Scale 1	Operator kfunk2	Inbound	Gross	110580 lb
Out	10/05/2021 10:26:18		Operator kfunk2		Tare	43300 lb
					Net	67280 lb
					Tons	33.64

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.64	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.64	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 10-14-2021	Invoice No: 65223
Truck No: 38	Truck Type: Super
Truck Rate: 5.40 ton	Trailer:
Truck Hours:	Driver Hours:

Customer: Anderson Enviro	Job Address: 8801 E MARGINAL WAY S. Tukwila
Billing Address:	Job Number: PACCAR

MATERIAL	FROM	TO	Ticket# NO. LOADS	tons HOURS
EXPORT	8801 E MARGINAL WAY	7400 8 th AVE S.	65984 65991	29 ton Min 29 ton Min

Driver's Signature: X	Print Name: /	Authorized Co. Rep. Signature: X	Print Name: /
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65991
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 14:58:25	Scale 1	Operator	Inbound	Gross	78800 lb
Out	10/14/2021 14:58:25	Scale 1	kfunk2		Tare	30820 lb
			kfunk2		Net	47980 lb
					Tons	23.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	23.99	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	23.99	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

JS



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65984
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 14:18:02	Scale 1	Operator	Inbound	Gross	73000 lb
Out	10/14/2021 14:26:03	Scale 1	kfunk2		Tare	30820 lb
			kfunk2		Net	42180 lb
					Tons	21.09

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	21.09	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	21.09	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 10-14-21
 Invoice No: 68845
 Truck No: #35
 Truck Type: S-Solo
 Truck Rate: 5.40 ton
 Trailer:
 Driver Hours: ~~9.95~~ 4.0

Customer: ANDERSON ENVIRONMENTAL
 Billing Address:
 Job Address: 8801 E MARGINAL WAY - Tukwila
 Job Number: Tukwila

Start	Stop	Lunch	Downtime	Reason	INVOICE NO.	TONS
MATERIAL	FROM	TIME	W. M. TO	TIME	NO. LOADS	HOURS
EXPORT	TUKWILA	1150AM	DuraMist	1220PM	65954	18.36
11	11	1243PM	11	106PM	65965	19.60
11	11	133PM	11	153PM	65978	21.63
11	11	1231PM	11	249PM	65987	24.68
11	11	310PM	11	325PM	65993	5.56
Loads 5 5 Hours 4.0 4.0						

Driver's Signature: *[Signature]* Print Name: RICHARD
 Authorized Co. Rep. Signature: *[Signature]* Print Name:

Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65993
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H35
 Container
 Driver RICHARD RAMOS
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 15:13:14	Scale 1	Operator kfunk2	Inbound	Gross	42220 lb
Out	10/14/2021 15:13:14	Scale 1	Operator kfunk2		Tare	31060 lb
					Net	11160 lb
					Tons	5.58

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	5.58	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	5.58	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *KR*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65987
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H35
 Container
 Driver RICHARD RAMOS
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 14:41:45	Scale 1	Operator kfunk2	Inbound	Gross	80420 lb
Out	10/14/2021 14:41:45		Operator kfunk2		Tare	31060 lb
					Net	49360 lb
					Tons	24.68

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	24.68	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	24.68	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65978
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H35
 Container
 Driver RICHARD RAMOS
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 13:45:43	Scale 1	Operator	Inbound	Gross	74320 lb
Out	10/14/2021 13:45:43	Scale 1	kfunk2		Tare	31060 lb
			kfunk2		Net	43260 lb
					Tons	21.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	21.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	21.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65965
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H35
 Container
 Driver RICHARD RAMOS
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 12:57:31	Scale 1	Operator kfunk2	Inbound	Gross	70260 lb
Out	10/14/2021 12:57:31		Operator kfunk2		Tare	31060 lb
					Net	39200 lb
					Tons	19.60

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	19.60	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	19.60	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 65954
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/14/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H35
 Container
 Driver RICHARD RAMOS
 Check#
 Billing# 0000392
 Grid

Volume

In	10/14/2021 12:07:23	Scale 1	Operator kfunk2	Inbound	Gross	67780 lb
Out	10/14/2021 12:19:27	Scale 1	Operator kfunk2		Tare	31060 lb
					Net	36720 lb
					Tons	18.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	18.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	18.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66076
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/18/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H21
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	10/18/2021 15:06:45	Scale	Operator	Inbound	Gross	118440 lb
Out	10/18/2021 15:06:45	Scale 1	kfunk2		Tare	41860 lb
			kfunk2		Net	76580 lb
					Tons	38.29

Comments Hrlow - lm

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.29	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	38.29	Tons				

Total Tax
 Total Ticket

Driver's Signature *[Signature]*



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 10-18-21	Invoice No: 69529
Truck No: 38	Truck Type: 55
Truck Rate: 5.40 ton	Trailer:
Truck Hours: 140.0 tons	Driver Hours:

Customer: ANDERSON ENVIRONMENTAL	Job Address: 8801 E. MARGINAL WAY S. TUKWILA
Billing Address:	Job Number: PRCAL

Start: 10:48g	Stop: 3:30p	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
XPORT	8801 E MARGINAL WAY	7400 BTH AVE S SEATTLE WA	29.0	28.22
			29.0	26.63
			29.0	18.86
			29.0	26.06
			29.0	25.28
			145.0 tons	

Driver's Signature:	Print Name: JEFF SMELAND	Authorized Co. Rep. Signature:	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



DUWAMISH RELOAD FACILITY
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON 98108

SCALE TICKET

14044

DATE 10-18-2021

TIME 3:26 / IN OUT

CUSTOMER BILLED Anderson Farmington Hill

ADDRESS _____

DRIVER ON OFF

COMMODITY 13532104

CUST. HAULED Haulow

SIZE _____

TRUCK # 38

R.T. # _____ RECEIPT # _____

WEIGHER MW

803-DUWAMISH

GROSS 81380

TARE 390820

NET 25.28

AMOUNT _____



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66059
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/18/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

In	10/18/2021 11:32:07	Scale 1	Operator kfunk2	Inbound	Gross	87260 lb
Out	10/18/2021 11:32:07		kfunk2		Tare	30820 lb
					Net	56440 lb
					Tons	28.22

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66062
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/18/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	10/18/2021 12:18:37	Scale 1	Operator	Inbound	Gross	84080 lb
Out	10/18/2021 12:18:37		kfunk2		Tare	30820 lb
			kfunk2		Net	53260 lb
					Tons	26.63

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	26.63	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66066
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/18/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	10/18/2021 13:03:48	Scale 1	Operator kfunk2	Inbound	Gross	68540 lb
Out	10/18/2021 13:03:48		kfunk2		Tare	30820 lb
					Net	37720 lb
					Tons	18.86

Comments harlow - lm

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	18.86	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	18.86	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66075
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/18/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	10/18/2021 14:43:21	Scale 1	Operator kfunk2	Inbound	Gross	82940 lb
Out	10/18/2021 14:43:21		kfunk2		Tare	30820 lb
					Net	52120 lb
					Tons	26.06

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.06	Tons				KING
2 EVF-P6-Environmental Fee	100		%				
3 GOND TON-GONDOLA PER TON	100	26.06	Tons				

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 10-20-21	Invoice No: 69559
Truck No: 9	Truck Type: TNT
Truck Rate: 5.40 ton	Trailer: 9
Truck Hours: 405.00 173.05 tons	Driver Hours:

Customer: ANDERSON EV.	Job Address: 8801 E MARGINAL WA TUKWILA
Billing Address:	Job Number:

Start: 1055	Stop: 325	Lunch:	Downtime:	Reason:
MATERIAL	FROM	TO	NO. LOADS	HOURS
Export	Tukwila	Seattle wm	66180	35.70
			66199	33.22
			66211	39.02
			66220	33.52
			66225	31.59
				✓ 173.05

5 LOADS

Driver's Signature: X <i>Byron Renon</i>	Print Name: BYRON RENON	Authorized Co/Rep. Signature: X <i>[Signature]</i>	Print Name:
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66180
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 11:22:32	Scale	Operator	Inbound	Gross	114700 lb
Out	10/20/2021 11:22:32	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	71400 lb
					Tons	35.70

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.70	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.70	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66180
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

In	10/20/2021 11:22:32	Scale 1	Operator kfunk2	Inbound	Gross	114700 lb
Out	10/20/2021 11:22:32		kfunk2		Tare	43300 lb
					Net	71400 lb
					Tons	35.70

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.70	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.70	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66199
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 12:18:30	Scale	Operator	Inbound	Gross	109740 lb
Out	10/20/2021 12:18:30	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	66440 lb
					Tons	33.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66199
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 12:18:30	Scale 1	Operator kfunk2	Inbound	Gross	109740 lb
Out	10/20/2021 12:18:30	Scale 1	Operator kfunk2		Tare	43300 lb
					Net	66440 lb
					Tons	33.22

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.22	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.22	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66211
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 13:22:54	Scale	1	Operator	kfunk2	Inbound	Gross	121340 lb
Out	10/20/2021 13:22:54	Scale	1	Operator	kfunk2		Tare	43300 lb
							Net	78040 lb
							Tons	39.02

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	39.02	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	39.02	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

B.P.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66211
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021	13:22:54	Scale 1	Operator	Inbound	Gross	121340 lb
Out	10/20/2021	13:22:54		kfunk2		Tare	43300 lb
				kfunk2		Net	78040 lb
Comments	HARLOW-KF					Tons	39.02

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	39.02	Tons				
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	39.02	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

B P.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66220
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 14:25:28	Scale	1	Operator	kfunk2	Inbound	Gross	110340 lb
Out	10/20/2021 14:25:28	Scale	1	Operator	kfunk2		Tare	43300 lb
							Net	67040 lb
							Tons	33.52

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.52	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.52	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66225
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 15:08:51	Scale 1	Operator kfunk2	Inbound	Gross	106480 lb
Out	10/20/2021 15:08:51		Operator kfunk2		Tare	43300 lb
					Net	63180 lb
					Tons	31.59

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.59	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.59	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
7400 8th Ave S
Seattle, WA, 98108

Reprint
Ticket# 66225
Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
Ticket Date 10/20/2021
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# TBD/135321OR

Carrier SELF SELF
Vehicle# H9
Container
Driver BYRON PENOR
Check#
Billing# 0000392
Grid

Volume

In	10/20/2021 15:08:51	Scale	Operator	Inbound	Gross	106480 lb
Out	10/20/2021 15:08:51	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	63180 lb
Comments	HARLOW-KF				Tons	31.59

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.59	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.59	Tons				KING

Total Tax
Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Reprint
 Ticket# 66220
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/20/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/20/2021 14:25:28	Scale	Operator	Inbound	Gross	110340 lb
Out	10/20/2021 14:25:28	Scale 1	kfunk2		Tare	43300 lb
			kfunk2		Net	67040 lb
					Tons	33.52

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.52	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.52	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date:	10-22-21	Invoice No:	69561
Truck No:	9	Truck Type:	TNT
Truck Rate:	5.40 ton	Trailer:	9
Truck Hours:	103.79 103.79 tons	Driver Hours:	

Customer:	Anderson Environmental	Job Address:	8801 E Marginal Way S Tukwila
Billing Address:		Job Number:	

Start:	829	Stop:	1100	Lunch:		Downtime:		Reason:	
MATERIAL	FROM	TO	NO. LOADS	HOURS					
Export	tukwila	wm/Seattle	66285	39.63					
			66290	35.16					
		29 ton Min	66299	19.08					
					103.79 ton				
<div style="border: 1px solid black; border-radius: 50%; padding: 20px; display: inline-block;"> <p>3 LOADS</p> </div>									

Driver's Signature:		Print Name:	Byron Renok	Authorized Co. Rep. Signature:		Print Name:	
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Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66285
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In 10/22/2021 09:02:29 Scale 1
 Out 10/22/2021 09:02:29 Scale 1

Operator
 kfunk2
 kfunk2

Inbound	Gross	122560 lb
	Tare	43300 lb
	Net	79260 lb
	Tons	39.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	39.63	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	39.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66290
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

Time Scale Operator
 In 10/22/2021 09:44:20 Scale 1 kfunk2
 Out 10/22/2021 09:44:20 kfunk2

Inbound Gross 113620 lb
 Tare 43300 lb
 Net 70320 lb
 Tons 35.16

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.16	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.16	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BF



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66299
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 10/22/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	10/22/2021 10:41:16	Scale 1	Operator kfunk2	Inbound	Gross	81460 lb
Out	10/22/2021 10:41:16	Scale 1	Operator kfunk2		Tare	43300 lb
					Net	38160 lb
					Tons	19.08

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	19.08	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	19.08	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



Harlow Construction Company, Inc.

3123 106th Street South
Lakewood, WA 98499
Office: 253-588-4705 - Fax: 253-588-4710
email: HarlowConst@hotmail.com
Dispatch: 253-606-5377

Date: 11-4-21	Invoice No: 69540
Truck No: 38	Truck Type: SS
Truck Rate: 5.40 Ton	Trailer:
Truck Hours: 232	Driver Hours:

Customer: ANDERSON ENVIRO	Job Address: 8801 E. MARGINAL WAYS TUKWILA
Billing Address:	Job Number: PAKLAY

Start: 11:00A	Stop: 1:45P	Lunch:	Downtime:	Reason:
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MATERIAL	FROM	TO	NO. LOADS	HOURS
XPORT	8801 E. MARGINAL WAYS	7400 8TH AVES SEATTLE	66596	31.77
11 11			66606	20.36
11 11			66610	27.54
	29 ton Min			
	8 LOAD MIN			

Driver's Signature: X	Print Name: JEFF SMELAND	Authorized Co. Rep. Signature: X	Print Name:
--------------------------	-----------------------------	-------------------------------------	-------------

Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1½% per month will be charged on all past due accounts. Charges are due by the tenth of the month following date of this billing.



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66610
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 11/04/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	11/04/2021 13:15:29	Scale 1	Operator kfunk2	Inbound	Gross	85900 lb
Out	11/04/2021 13:15:29	Scale 1	Operator kfunk2		Tare	30820 lb
					Net	55080 lb
					Tons	27.54

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	27.54	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	27.54	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66596
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 11/04/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	11/04/2021 11:40:50	Scale 1	Operator kfunk2	Inbound	Gross	94360 lb
Out	11/04/2021 11:40:50		Operator kfunk2		Tare	30820 lb
					Net	63540 lb
					Tons	31.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.77	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 66606
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 11/04/2021
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H38
 Container
 Driver JEFF SMELAND
 Check#
 Billing# 0000392
 Grid

Volume

In	11/04/2021 12:36:22	Scale	Operator	Inbound	Gross	71540 lb
Out	11/04/2021 12:36:22	Scale 1	kfunk2		Tare	30820 lb
			kfunk2		Net	40720 lb
					Tons	20.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	20.36	Tons				KING
2 EVF-P6-Environmental Fee	100		%				KING
3 GOND TON-GONDOLA PER TON	100	20.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74565
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 07:57:48	Scale 1	Operator kfunk2	Inbound	Gross	123520 lb
Out	08/17/2022 08:07:21	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	81780 lb
					Tons	40.89

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	40.89	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	40.89	Tons				

Total Tax
 Total Ticket

Driver's Signature *KM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74567
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 08:34:42	Scale 1	Operator kfunk2	Inbound	Gross	113740 lb
Out	08/17/2022 08:34:42		Operator kfunk2		Tare	41740 lb
					Net	72000 lb
					Tons	36.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.00	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.00	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74571
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 09:11:23	Scale	1	Operator	kfunk2	Inbound	Gross	106540 lb
Out	08/17/2022 09:11:23	Scale	1	Operator	kfunk2		Tare	41740 lb
							Net	64800 lb
							Tons	32.40

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.40	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.40	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74574
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 09:52:55	Scale 1	Operator kfunk2	Inbound	Gross	104040 lb
Out	08/17/2022 09:52:55		Operator kfunk2		Tare	41740 lb
					Net	62300 lb
					Tons	31.15

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.15	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.15	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74578
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	103720 lb
In	08/17/2022 10:32:07	Scale 1	kfunk2		Tare	41740 lb
Out	08/17/2022 10:32:07		kfunk2		Net	61980 lb
					Tons	30.99

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.99	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	30.99	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74583
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 11:04:41	Scale 1	Operator kfunk2	Inbound	Gross	107580 lb
Out	08/17/2022 11:04:41	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	65840 lb
					Tons	32.92

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.92	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.92	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74587
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 11:39:30	Scale 1	Operator	Inbound	Gross	111580 lb
Out	08/17/2022 11:39:30		kfunk2		Tare	41740 lb
			kfunk2		Net	69840 lb
					Tons	34.92

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.92	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.92	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74591
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 12:27:41	Scale 1	Operator kfunk2	Inbound	Gross	106540 lb
Out	08/17/2022 12:27:41	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	64800 lb
					Tons	32.40

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.40	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.40	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74598
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 13:03:24	Scale 1	Operator kfunk2	Inbound	Gross	105300 lb
Out	08/17/2022 13:03:24	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	63560 lb
					Tons	31.78

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.78	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.78	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74603
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 13:40:32	Scale 1	Operator	Inbound	Gross	110120 lb
Out	08/17/2022 13:40:32	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	68380 lb
					Tons	34.19

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.19	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.19	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74607
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 14:16:18	Scale	1	Operator	kfunk2	Inbound	Gross	108880 lb
Out	08/17/2022 14:16:18	Scale	1	Operator	kfunk2		Tare	41740 lb
							Net	67140 lb
							Tons	33.57

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.57	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.57	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74609
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 14:51:40	Scale 1	Operator	Inbound	Gross	107040 lb
Out	08/17/2022 14:51:40	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	65300 lb
					Tons	32.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.65	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	32.65	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74613

Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 15:33:16	Scale 1	Operator	Inbound	Gross	108900 lb
Out	08/17/2022 15:33:16	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	67160 lb
					Tons	33.58

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.58	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.58	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74614
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 15:51:35	Scale	Operator	Inbound	Gross	106980 lb
Out	08/17/2022 15:51:35	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	66220 lb
					Tons	33.11

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.11	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.11	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74611
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 15:11:54	Scale 1	Operator	Inbound	Gross	106780 lb
Out	08/17/2022 15:11:54	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	66020 lb
					Tons	33.01

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.01	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.01	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74608
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 14:31:40	Scale	Operator	Inbound	Gross	104180 lb
Out	08/17/2022 14:31:40	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	63420 lb
					Tons	31.71

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.71	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.71	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74604
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 13:48:21	Scale 1	Operator kfunk2	Inbound	Gross	103740 lb
Out	08/17/2022 13:48:21		kfunk2		Tare	40760 lb
					Net	62980 lb
					Tons	31.49

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.49	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.49	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74600
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 13:13:44	Scale 1	Operator	Inbound	Gross	102880 lb
Out	08/17/2022 13:13:44	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	62120 lb
					Tons	31.06

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.06	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.06	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74593
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 12:34:34	Scale	1	Operator	kfunk2	Inbound	Gross	104000 lb
Out	08/17/2022 12:34:34	Scale	1	Operator	kfunk2		Tare	40760 lb
							Net	63240 lb
							Tons	31.62

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.62	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.62	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74589
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 11:51:46	Scale 1	Operator kfunk2	Inbound	Gross	99480 lb
Out	08/17/2022 11:51:46		kfunk2		Tare	40760 lb
					Net	58720 lb
					Tons	29.36

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.36	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.36	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74585
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 11:17:51	Scale 1	Operator kfunk2	Inbound	Gross	99760 lb
Out	08/17/2022 11:17:51		Operator kfunk2		Tare	40760 lb
					Net	59000 lb
					Tons	29.50

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.50	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.50	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74580
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 10:39:16	Scale 1	Operator kfunk2	Inbound	Gross	101640 lb
Out	08/17/2022 10:39:16		kfunk2		Tare	40760 lb
					Net	60880 lb
					Tons	30.44

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.44	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	30.44	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74576
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 10:04:50	Scale 1	Operator kfunk2	Inbound	Gross	104360 lb
Out	08/17/2022 10:04:50	Scale 1	Operator kfunk2		Tare	40760 lb
					Net	63600 lb
					Tons	31.80

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.80	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.80	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74572
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 09:27:03	Scale	Operator	Inbound	Gross	103540 lb
Out	08/17/2022 09:27:03	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	62780 lb
					Tons	31.39

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.39	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.39	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74568
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/17/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/17/2022 08:48:38	Scale 1	Operator kfunk2	Inbound	Gross	98200 lb
Out	08/17/2022 08:58:45	Scale 1	Operator kfunk2		Tare	40760 lb
					Net	57440 lb
					Tons	28.72

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.72	Tons				KING
2 EVE-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.72	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *BM*

29 ton Min



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74673
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 14:50:45	Scale 1	Operator kfunk2	Inbound	Gross	106320 lb
Out	08/18/2022 14:50:45	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	66260 lb
					Tons	33.13

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.13	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	33.13	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74670
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 14:17:27	Scale 1	Operator	Inbound	Gross	100800 lb
Out	08/18/2022 14:17:27		kfunk2		Tare	40060 lb
			kfunk2		Net	60740 lb
					Tons	30.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.37	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74666
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 13:42:45	Scale	Operator	Inbound	Gross	105900 lb
Out	08/18/2022 13:42:45	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	65840 lb
					Tons	32.92

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.92	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.92	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74660
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 13:04:07	Scale 1	Operator kfunk2	Inbound	Gross	104080 lb
Out	08/18/2022 13:04:07		kfunk2		Tare	40060 lb
					Net	64020 lb
					Tons	32.01

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.01	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	32.01	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74656
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 12:29:25	Scale 1	Operator kfunk2	Inbound	Gross	103560 lb
Out	08/18/2022 12:29:25		Operator kfunk2		Tare	40060 lb
					Net	63500 lb
					Tons	31.75

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.75	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.75	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74652
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 11:52:37	Scale 1	Operator kfunk2	Inbound	Gross	105380 lb
Out	08/18/2022 11:52:37	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	65320 lb
					Tons	32.66

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.66	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.66	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74646
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 11:23:23	Scale 1	Operator	Inbound	Gross	101540 lb
Out	08/18/2022 11:23:23	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	61480 lb
					Tons	30.74

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.74	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.74	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74644
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 10:50:38	Scale 1	Operator kfunk2	Inbound	Gross	100480 lb
Out	08/18/2022 10:50:38	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	60420 lb
					Tons	30.21

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.21	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.21	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74639
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 10:17:46	Scale 1	Operator kfunk2	Inbound	Gross	99280 lb
Out	08/18/2022 10:17:46	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	59220 lb
					Tons	29.61

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.61	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.61	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74632
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 09:44:55	Scale 1	Operator kfunk2	Inbound	Gross	97220 lb
Out	08/18/2022 09:44:55	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	57160 lb
					Tons	28.58

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.58	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.58	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74629
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 09:08:11	Scale 1	Operator	Inbound	Gross	103380 lb
Out	08/18/2022 09:08:11	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	63320 lb
					Tons	31.66

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.66	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.66	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74622
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 08:26:39	Scale 1	Operator kfunk2	Inbound	Gross	106560 lb
Out	08/18/2022 08:26:39		Operator kfunk2		Tare	40060 lb
					Net	66500 lb
					Tons	33.25

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.25	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.25	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74616
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 07:34:51	Scale 1	Operator	Inbound	Gross	99600 lb
Out	08/18/2022 07:45:54	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	59540 lb
					Tons	29.77

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.77	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.77	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74615
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 07:29:45	Scale 1	Operator	Inbound	Gross	105300 lb
Out	08/18/2022 07:29:45		kfunk2		Tare	41740 lb
			kfunk2		Net	63560 lb
					Tons	31.78

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.78	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.78	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74619
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 08:14:13	Scale 1	Operator kfunk2	Inbound	Gross	109080 lb
Out	08/18/2022 08:14:13		Operator kfunk2		Tare	41740 lb
					Net	67340 lb
					Tons	33.67

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.67	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.67	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74626
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 08:51:02	Scale 1	Operator	Inbound	Gross	103860 lb
Out	08/18/2022 08:51:02	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	62120 lb
					Tons	31.06

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.06	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.06	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74630
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 09:23:57	Scale 1	Operator	Inbound	Gross	102160 lb
Out	08/18/2022 09:23:57	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	60420 lb
					Tons	30.21

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.21	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.21	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *K M*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74633
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 09:51:13	Scale 1	Operator kfunk2	Inbound	Gross	103700 lb
Out	08/18/2022 09:51:13		Operator kfunk2		Tare	41740 lb
					Net	61960 lb
					Tons	30.98

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.98	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.98	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74640
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 10:24:40	Scale 1	Operator kfunk2	Inbound	Gross	106820 lb
Out	08/18/2022 10:24:40		Operator kfunk2		Tare	41740 lb
					Net	65080 lb
					Tons	32.54

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.54	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.54	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74645
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 10:57:37	Scale 1	Operator	Inbound	Gross	106880 lb
Out	08/18/2022 10:57:37		kfunk2		Tare	41740 lb
			kfunk2		Net	65140 lb
					Tons	32.57

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.57	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.57	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *Km*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74649
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 11:32:05	Scale	Operator	Inbound	Gross	104940 lb
Out	08/18/2022 11:32:05	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	63200 lb
					Tons	31.60

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.60	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.60	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74653
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 12:13:00	Scale 1	Operator kfunk2	Inbound	Gross	113660 lb
Out	08/18/2022 12:13:00	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	71920 lb
					Tons	35.96

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.96	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	35.96	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74658
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 12:45:23	Scale	1	Operator	kfunk2	Inbound	Gross	108100 lb
Out	08/18/2022 12:45:23	Scale	1	Operator	kfunk2		Tare	41740 lb
							Net	66360 lb
							Tons	33.18

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.18	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *KM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74663
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 13:16:04	Scale 1	Operator kfunk2	Inbound	Gross	112480 lb
Out	08/18/2022 13:16:04	Scale 1	Operator kfunk2		Tare	41740 lb
					Net	70740 lb
					Tons	35.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.37	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74667
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 13:51:21	Scale 1	Operator kfunk2	Inbound	Gross	108900 lb
Out	08/18/2022 13:51:21		kfunk2		Tare	41740 lb
					Net	67160 lb
					Tons	33.58

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.58	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.58	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74671
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 14:24:09	Scale 1	Operator kfunk2	Inbound	Gross	110960 lb
Out	08/18/2022 14:24:09		Operator kfunk2		Tare	41740 lb
					Net	69220 lb
					Tons	34.61

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.61	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.61	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *K.M.*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74674
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

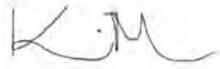
Volume

In	08/18/2022 14:56:31	Scale 1	Operator	Inbound	Gross	112000 lb
Out	08/18/2022 14:56:31	Scale 1	kfunk2		Tare	41740 lb
			kfunk2		Net	70260 lb
					Tons	35.13

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.13	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.13	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74676
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/18/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H4
 Container
 Driver KEVIN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/18/2022 15:33:18	Scale 1	Operator kfunk2	Inbound	Gross Tare	111940 lb
Out	08/18/2022 15:33:18		Operator kfunk2		Net	41740 lb
					Tons	70200 lb
						35.10

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.10	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.10	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74744
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 12:19:56	Scale	Operator	Inbound	Gross	106600 lb
Out	08/22/2022 12:19:56	Scale 1	kfunk2		Tare	41340 lb
			kfunk2		Net	65260 lb
					Tons	32.63

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.63	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.63	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74721
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	113240 lb
In	08/22/2022 09:59:33	Scale 1	kfunk2		Tare	41340 lb
Out	08/22/2022 09:59:33		kfunk2		Net	71900 lb
					Tons	35.95

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.95	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.95	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74716
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 09:24:44	Scale 1	Operator kfunk2	Inbound	Gross	114460 lb
Out	08/22/2022 09:24:44		Operator kfunk2		Tare	41340 lb
					Net	73120 lb
					Tons	36.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.56	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74712
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 08:45:24	Scale	1	Operator	kfunk2	Inbound	Gross	114240 lb
Out	08/22/2022 08:45:24	Scale	1	Operator	kfunk2		Tare	41340 lb
							Net	72900 lb
							Tons	36.45

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.45	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.45	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74699
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 07:23:23	Scale 1	Operator kfunk2	Inbound	Gross	100640 lb
Out	08/22/2022 07:35:24	Scale 1	Operator kfunk2		Tare	41340 lb
					Net	59300 lb
					Tons	29.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.65	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.65	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74707
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 08:09:41	Scale	Operator	Inbound	Gross	110080 lb
Out	08/22/2022 08:09:41	Scale 1	kfunk2		Tare	41340 lb
			kfunk2		Net	68740 lb
					Tons	34.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.37	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74727
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 10:33:47	Scale 1	Operator kfunk2	Inbound	Gross	106640 lb
Out	08/22/2022 10:33:47		Operator kfunk2		Tare	41340 lb
					Net	65300 lb
					Tons	32.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.65	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.65	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74731
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 11:11:54	Scale 1	Operator kfunk2	Inbound	Gross	106400 lb
Out	08/22/2022 11:11:54		Operator kfunk2		Tare	41340 lb
					Net	65060 lb
					Tons	32.53

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.53	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.53	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74738
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 11:46:31	Scale 1	Operator	Inbound	Gross	107360 lb
Out	08/22/2022 11:46:31		kfunk2		Tare	41340 lb
			kfunk2		Net	66020 lb
					Tons	33.01

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.01	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.01	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74751
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 12:58:39	Scale	Operator	Inbound	Gross	103380 lb
Out	08/22/2022 12:58:39	Scale 1	kfunk2		Tare	41340 lb
			kfunk2		Net	62040 lb
					Tons	31.02

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.02	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.02	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74754
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 13:16:17	Scale 1	Operator kfunk2	Inbound	Gross	102380 lb
Out	08/22/2022 13:16:17		kfunk2		Tare	40760 lb
					Net	61620 lb
					Tons	30.81

Comments HENRY'S - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.81	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.81	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74749
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 12:38:38	Scale 1	Operator kfunk2	Inbound	Gross	103780 lb
Out	08/22/2022 12:38:38		Operator kfunk2		Tare	40760 lb
					Net	63020 lb
					Tons	31.51

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.51	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.51	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74741
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 12:05:37	Scale 1	Operator	Inbound	Gross	103680 lb
Out	08/22/2022 12:05:37		kfunk2		Tare	40760 lb
			kfunk2		Net	62920 lb
					Tons	31.46

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.46	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.46	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74734
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

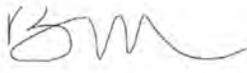
Volume

In	08/22/2022 11:27:41	Scale 1	Operator	Inbound	Gross	105640 lb
Out	08/22/2022 11:27:41	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	64880 lb
					Tons	32.44

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.44	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.44	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74729
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 10:57:35	Scale 1	Operator kfunk2	Inbound	Gross	107400 lb
Out	08/22/2022 10:57:35		kfunk2		Tare	40760 lb
					Net	66640 lb
					Tons	33.32

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.32	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.32	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74724
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

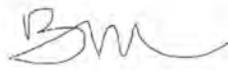
Volume

In	08/22/2022 10:16:59	Scale 1	Operator kfunk2	Inbound	Gross	111760 lb
Out	08/22/2022 10:16:59		Operator kfunk2		Tare	40760 lb
					Net	71000 lb
					Tons	35.50

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.50	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	35.50	Tons				

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74719
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	108980 lb
In	08/22/2022 09:40:40	Scale 1	kfunk2		Tare	40760 lb
Out	08/22/2022 09:40:40		kfunk2		Net	68220 lb
					Tons	34.11

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.11	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.11	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74714
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 09:03:47	Scale 1	Operator	Inbound	Gross	114620 lb
Out	08/22/2022 09:03:47	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	73860 lb
					Tons	36.93

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.93	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.93	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74710
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 08:27:09	Scale	1	Operator	kfunk2	Inbound	Gross	107640 lb
Out	08/22/2022 08:27:09	Scale	1	Operator	kfunk2		Tare	40760 lb
							Net	66880 lb
							Tons	33.44

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.44	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.44	Tons				KING

Total Tax
 Total Ticket

Driver's Signature *BM*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74702
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 07:52:52	Scale 1	Operator	Inbound	Gross	107860 lb
Out	08/22/2022 07:52:52	Scale 1	kfunk2		Tare	40760 lb
			kfunk2		Net	67100 lb
					Tons	33.55

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.55	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	33.55	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74696
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H15
 Container
 Driver BRIAN MCAVOY
 Check#
 Billing# 0000392
 Grid

Volume

In 08/22/2022 07:10:41 Scale 1
 Out 08/22/2022 07:12:03 Scale 1

Operator Inbound
 kfunk2
 kfunk2
 * Manual Weight

Gross 99540 lb
 Tare 40060 lb*
 Net 59480 lb
 Tons 29.74

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.74	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.74	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74767
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 15:43:44	Scale	Operator	Inbound	Gross	92440 lb
Out	08/22/2022 15:43:44	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	52360 lb
					Tons	26.18

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.18	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	26.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Brian



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74765
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 14:58:05	Scale 1	Operator kfunk2	Inbound	Gross	100440 lb
Out	08/22/2022 14:58:05		Operator kfunk2		Tare	40080 lb
					Net	60360 lb
					Tons	30.18

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.18	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Brian



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74762
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 14:25:18	Scale 1	Operator kfunk2	Inbound	Gross	97260 lb
Out	08/22/2022 14:25:18		Operator kfunk2		Tare	40080 lb
					Net	57180 lb
					Tons	28.59

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.59	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	28.59	Tons				

Total Tax
 Total Ticket

Driver's Signature

Harlow



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74760
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 13:48:13	Scale	Operator	Inbound	Gross	98040 lb
Out	08/22/2022 13:48:13	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	57960 lb
					Tons	28.98

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.98	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.98	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74753
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 13:07:04	Scale	Operator	Inbound	Gross	104680 lb
Out	08/22/2022 13:07:04	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	64600 lb
					Tons	32.30

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.30	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.30	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74746
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 12:29:12	Scale	Operator	Inbound	Gross	96280 lb
Out	08/22/2022 12:29:12	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	56200 lb
					Tons	28.10

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.10	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.10	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74739
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 11:52:04	Scale 1	Operator kfunk2	Inbound	Gross	105440 lb
Out	08/22/2022 11:52:04	Scale 1	Operator kfunk2		Tare	40080 lb
					Net	65360 lb
					Tons	32.68

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.68	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.68	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74733
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 11:19:19	Scale 1	Operator kfunk2	Inbound	Gross	103200 lb
Out	08/22/2022 11:19:19		Operator kfunk2		Tare	40080 lb
					Net	63120 lb
					Tons	31.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.56	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BW



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74728
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 10:44:15	Scale 1	Operator kfunk2	Inbound	Gross	106600 lb
Out	08/22/2022 10:44:15		Operator kfunk2		Tare	40080 lb
					Net	66520 lb
					Tons	33.26

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.26	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.26	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74722
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 10:08:22	Scale 1	Operator kfunk2	Inbound	Gross	112080 lb
Out	08/22/2022 10:08:22		Operator kfunk2		Tare	40080 lb
					Net	72000 lb
					Tons	36.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	36.00	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	36.00	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74717
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 09:29:01	Scale 1	Operator	kfunk2	Inbound	Gross	108500 lb
Out	08/22/2022 09:29:01	Scale 1	Operator	kfunk2		Tare	40080 lb
						Net	68420 lb
						Tons	34.21

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.21	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	34.21	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74713
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 08:52:31	Scale 1	Operator kfunk2	Inbound	Gross	105380 lb
Out	08/22/2022 08:52:31		kfunk2		Tare	40080 lb
					Net	65300 lb
					Tons	32.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.65	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	32.65	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74708
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/22/2022 08:12:33	Scale 1	Operator kfunk2	Inbound	Gross	106460 lb
Out	08/22/2022 08:12:33		Operator kfunk2		Tare	40080 lb
					Net	66380 lb
					Tons	33.19

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.19	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	33.19	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74700
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 07:24:55	Scale 1	Operator	Inbound	Gross	101200 lb
Out	08/22/2022 07:38:40	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	61120 lb
					Tons	30.56

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.56	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.56	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74766
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 15:37:45	Scale 1	Operator kfunk2	Inbound	Gross	88460 lb
Out	08/22/2022 15:37:45		Operator kfunk2		Tare	40100 lb
					Net	48360 lb
					Tons	24.18

Comments harlow - 1m

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	24.18	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	24.18	Tons				

Total Tax
 Total Ticket

Driver's Signature *Sandra*



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74764
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 14:51:44	Scale 1	Operator kfunk2	Inbound	Gross	101140 lb
Out	08/22/2022 14:51:44		Operator kfunk2		Tare	40100 lb
					Net	61040 lb
					Tons	30.52

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.52	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.52	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74761
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 14:10:11	Scale 1	Operator kfunk2	Inbound	Gross	96560 lb
Out	08/22/2022 14:10:11		Operator kfunk2		Tare	40100 lb
					Net	56460 lb
					Tons	28.23

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.23	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.23	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74757
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 13:34:20	Scale 1	Operator kfunk2	Inbound	Gross	92880 lb
Out	08/22/2022 13:34:20	Scale 1	Operator kfunk2		Tare	40100 lb
					Net	52780 lb
					Tons	26.39

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.39	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	26.39	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74750
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	98780 lb
In	08/22/2022 12:53:21	Scale 1	kfunk2		Tare	40100 lb
Out	08/22/2022 12:53:21		kfunk2		Net	58680 lb
					Tons	29.34

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.34	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.34	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74743
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 12:15:31	Scale 1	Operator kfunk2	Inbound	Gross	97680 lb
Out	08/22/2022 12:15:31		Operator kfunk2		Tare	40100 lb
					Net	57580 lb
					Tons	28.79

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.79	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	28.79	Tons				

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74736
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

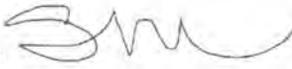
Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 11:38:28	Scale 1	Operator kfunk2	Inbound	Gross	98840 lb
Out	08/22/2022 11:38:28		kfunk2		Tare	40100 lb
					Net	58740 lb
					Tons	29.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	29.37	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	29.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74730
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 11:03:28	Scale 1	Operator kfunk2	Inbound	Gross	97260 lb
Out	08/22/2022 11:03:28		Operator kfunk2		Tare	40100 lb
					Net	57160 lb
					Tons	28.58

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.58	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.58	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74726
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 10:25:00	Scale 1	Operator kfunk2	Inbound	Gross	102100 lb
Out	08/22/2022 10:25:00		kfunk2		Tare	40100 lb
					Net	62000 lb
					Tons	31.00

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.00	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.00	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74720
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

		Scale	Operator	Inbound	Gross	111860 lb
In	08/22/2022 09:51:13	Scale 1	kfunk2		Tare	40100 lb
Out	08/22/2022 09:51:13		kfunk2		Net	71760 lb
					Tons	35.88

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	35.88	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	35.88	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74697
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	96900 lb
In	08/22/2022 07:15:10	Scale 1	kfunk2		Tare	40100 lb
Out	08/22/2022 07:27:32	Scale 1	kfunk2		Net	56800 lb
					Tons	28.40

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.40	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.40	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74715
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

	Time	Scale	Operator	Inbound	Gross	104900 lb
In	08/22/2022 09:16:29	Scale 1	kfunk2		Tare	40100 lb
Out	08/22/2022 09:16:29		kfunk2		Net	64800 lb
					Tons	32.40

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.40	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	32.40	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74711
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 08:40:15	Scale 1	Operator kfunk2	Inbound	Gross	105760 lb
Out	08/22/2022 08:40:15		Operator kfunk2		Tare	40100 lb
					Net	65660 lb
					Tons	32.83

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	32.83	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	32.83	Tons				

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74703
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/22/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/22/2022 07:59:42	Scale 1	Operator kfunk2	Inbound	Gross	106380 lb
Out	08/22/2022 07:59:42		Operator kfunk2		Tare	40100 lb
					Net	66280 lb
					Tons	33.14

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.14	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.14	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74806
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/23/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/23/2022 12:03:31	Scale 1	Operator kfunk2	Inbound	Gross	62260 lb
Out	08/23/2022 12:03:31		Operator kfunk2		Tare	40060 lb
					Net	22200 lb
					Tons	11.10

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	11.10	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	11.10	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74796
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/23/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

		Scale	Operator	Inbound	Gross	92760 lb
In	08/23/2022 11:11:32	Scale 1	kfunk2		Tare	40060 lb
Out	08/23/2022 11:11:32		kfunk2		Net	52700 lb
					Tons	26.35

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.35	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	26.35	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Cliff



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74788
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/23/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/23/2022 10:23:00	Scale 1	Operator kfunk2	Inbound	Gross	86420 lb
Out	08/23/2022 10:23:00		Operator kfunk2		Tare	40060 lb
					Net	46360 lb
					Tons	23.18

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	23.18	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	23.18	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74783
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/23/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

	Time	Scale	Operator	Inbound	Gross	84660 lb
In	08/23/2022 09:43:47	Scale 1	kfunk2		Tare	40060 lb
Out	08/23/2022 09:43:47		kfunk2		Net	44600 lb
					Tons	22.30

Comments HARLOW - LM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	22.30	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	22.30	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

Cliff



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74930
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 15:33:05	Scale 1	Operator	Inbound	Gross	108720 lb
Out	08/26/2022 15:33:05		kfunk2		Tare	40060 lb
			kfunk2		Net	68660 lb
					Tons	34.33

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	34.33	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	34.33	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74926
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 14:24:28	Scale	Operator	Inbound	Gross	107940 lb
Out	08/26/2022 14:24:28	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	67880 lb
					Tons	33.94

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.94	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.94	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74924
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 13:37:12	Scale 1	Operator	Inbound	Gross	101860 lb
Out	08/26/2022 13:37:12		kfunk2		Tare	40060 lb
			kfunk2		Net	61800 lb
					Tons	30.90

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.90	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.90	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74922
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 12:48:33	Scale 1	Operator kfunk2	Inbound	Gross	97360 lb
Out	08/26/2022 12:48:33		kfunk2		Tare	40060 lb
					Net	57300 lb
					Tons	28.65

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.65	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.65	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74918
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 11:56:49	Scale 1	Operator kfunk2	Inbound	Gross	116920 lb
Out	08/26/2022 11:56:49		kfunk2		Tare	40060 lb
					Net	76860 lb
					Tons	38.43

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	38.43	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	38.43	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74914
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

In	08/26/2022 10:17:43	Scale	Operator	Inbound	Gross	92900 lb
Out	08/26/2022 10:17:43	Scale 1	kfunk2		Tare	40060 lb
			kfunk2		Net	52840 lb
					Tons	26.42

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	26.42	Tons				KING
2 EVF-P-Standard Environme	100		%				
3 GOND TON-GONDOLA PER TON	100	26.42	Tons				

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74912
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 09:23:51	Scale 1	Operator kfunk2	Inbound	Gross	96800 lb
Out	08/26/2022 09:23:51		Operator kfunk2		Tare	40060 lb
					Net	56740 lb
					Tons	28.37

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	28.37	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	28.37	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74915
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H10
 Container
 Driver CLIFF PRICE
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 11:11:05	Scale 1	Operator kfunk2	Inbound	Gross	103680 lb
Out	08/26/2022 11:11:05	Scale 1	Operator kfunk2		Tare	40060 lb
					Net	63620 lb
					Tons	31.81

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	31.81	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	31.81	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74929
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/1353210R

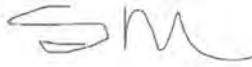
Carrier SELF SELF
 Vehicle# H22
 Container
 Driver SANDRA MASTERJOHN
 Check#
 Billing# 0000392
 Grid

In	08/26/2022 15:17:58	Scale 1	Operator	Inbound	Gross	100740 lb
Out	08/26/2022 15:17:58	Scale 1	kfunk2		Tare	40100 lb
			kfunk2		Net	60640 lb
					Tons	30.32

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	30.32	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	30.32	Tons				KING

Total Tax
 Total Ticket

Driver's Signature 



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 74928
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/26/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H26
 Container
 Driver BRIAN WOLFF
 Check#
 Billing# 0000392
 Grid

Volume

In	08/26/2022 15:00:54	Scale 1	Operator	Inbound	Gross	106680 lb
Out	08/26/2022 15:00:54	Scale 1	kfunk2		Tare	40080 lb
			kfunk2		Net	66600 lb
					Tons	33.30

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	33.30	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	33.30	Tons				KING

Total Tax
 Total Ticket

Driver's Signature



8th Ave Reload
 7400 8th Ave S
 Seattle, WA, 98108

Original
 Ticket# 75128
 Ph: 206-694-0600

Customer Name PACCAR INC PACCAR INC
 Ticket Date 08/31/2022
 Payment Type Credit Account
 Manual Ticket#
 Route
 Hauling Ticket#
 Destination
 PO# TBD/135321OR

Carrier SELF SELF
 Vehicle# H9
 Container
 Driver BYRON PENOR
 Check#
 Billing# 0000392
 Grid

In	08/31/2022 14:42:25	Scale 1	Operator	Inbound	Gross	69040 lb
Out	08/31/2022 14:42:25		kfunk2		Tare	41340 lb
			kfunk2		Net	27700 lb
					Tons	13.85

Comments HARLOW-KF

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-Tons-Pet	100	13.85	Tons				KING
2 EVF-P-Standard Environme	100		%				KING
3 GOND TON-GONDOLA PER TON	100	13.85	Tons				KING

Total Tax
 Total Ticket

Driver's Signature

BP

29 ton Mini