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24 January 2022

Andrew Smith, P.E., LHG UST/Technical Services Unit Supervisor Ecology's Toxics Cleanup Program Southwest Regional Office Department of Ecology PO Box 47775 Olympia, WA 98504-7775

Subject: Eighth Annual Compliance Groundwater Monitoring Report

Agreed Order No. DE 9514

Frederickson Industrial Park Site, Pierce County, WA

Geosyntec Project: GR4631J

Dear Mr. Smith:

This letter has been prepared by Geosyntec Consultants on behalf of Olin Corporation and Mallinckrodt US Holdings LLC (the Companies) to present the results from compliance monitoring completed in 2021 at the Frederickson Industrial Park Site (Site) in Pierce County, Washington (Figure 1). This compliance monitoring is being performed in accordance with the Washington Department of Ecology's (Ecology's) Agreed Order (AO) No. DE 9514 (Order).

Background

The Site encompasses 527 acres of land south of 176th Street East and east of Canyon Road East in the Fredrickson area of Pierce County, Washington. The Site is situated approximately 10 miles south of Tacoma and 8 miles southwest of Puyallup, and is located in unincorporated County area surrounded by a mixture of industrial, residential and commercial properties. Boeing is the current owner of the Frederickson Industrial Center; Olin and Mallinckrodt are the successors of former owners of the Site.

In 1997, the Companies entered into AO No. DE 97TC-S121 requiring the Companies to undertake the following remedial actions at the Site:

• devise and implement a permanent solution regarding the impact of carbon tetrachloride (CTC) in affected domestic drinking water wells; and

• design and implement a Remedial Investigation/Feasibility Study (RI/FS).

The RI/FS Report [Geosyntec, 2012]¹ was submitted to Ecology by the Companies on 28 March 2012 and recommended monitored natural attenuation (MNA) to address CTC in groundwater. This was followed by execution of AO No. DE 9514. The Companies agreed to prepare and execute a Cleanup Action Plan (CAP) and Compliance Monitoring Work Plan (CMWP), which were subsequently submitted and approved by Ecology on 27 February 2014.

The CAP, approved by Ecology after a public comment period, was based upon Ecology's approval of MNA as the groundwater remedy. The CMWP was provided as part of the CAP and outlines the requirements for MNA compliance monitoring. The current compliance monitoring network encompasses eight monitoring wells at the Site (listed in Table 1) and includes hydrogeologic monitoring and groundwater sampling for CTC analysis. As described in the CMWP, compliance monitoring for the Site consists of performance monitoring to track MNA, followed by confirmational monitoring to confirm compliance with applicable cleanup standards.

The performance monitoring sampling frequency was reduced from two monitoring events per year to a single annual event in 2016 as outlined in the CMWP and approved by Ecology. The April 2021 sampling event is the eighth year of the CMWP-required performance monitoring. In accordance with procedures outlined in the CMWP, and as defined in WAC 173-340-720(9)(iv), the performance monitoring well network was reduced from the original eleven wells identified in the CMWP to the current eight wells prior to the 2018 sampling event based on groundwater data from 2014-2017 and approved by Ecology on March 27, 2018. A sampling comparison evaluation of low-flow versus passive diffusion bags (PDBs) results were presented to Ecology in the Fourth Annual Compliance Groundwater Monitoring Report dated 12 February 2018 and in an email dated 3 April 2018. Ecology approved the use of PDBs based on the sampling comparison evaluation results in an email dated 6 April 2018. The 2021 sampling event is the fourth compliance monitoring event to use PDBs exclusively for sample collection.

¹ Geosyntec, 2012. Remedial Investigation/Feasibility Study (RI/FS) Report, Frederickson Industrial Park, Frederickson, Washington. March 2012.

Performance Monitoring Groundwater Results

Hydrogeologic Monitoring

Water level data collected during the 2021 groundwater monitoring event are presented in Table 1. Water level contours for Aquifer A are shown in Figure 2 for the 2021 monitoring event. The groundwater gradient in Aquifer A is to the north-northwest towards Clover Creek, and is consistent with past monitoring events.

Carbon Tetrachloride

Eight monitoring wells were sampled using passive diffusion bags during the April 2021 monitoring event. The samples were analyzed for CTC by ALS laboratory. The CTC data are summarized in Table 2, and the analytical reports are provided in Attachment A. Figure 3 presents the performance monitoring well locations and updated CTC contour based on the 2021 CTC results. Concentration trends for CTC are plotted for the performance monitoring wells in Figures 4a-4c.

Consistent with previous monitoring results, monitoring wells BMW-18, HLA-1, and 11-CL continue to have the highest CTC concentrations ranging between 2.9 μ g/L and 4.1 μ g/L (Figure 4a). The intermediate concentration wells (e.g., MW-1 and MW-13) remain in the range between 1.3 μ g/L and 1.5 μ g/L (Figure 4b). The peripheral monitoring wells, MW-4 on the east, P2-S on the north, and 11-BL on the west, had CTC concentrations of 0.65 μ g/L, 0.35 (J) μ g/L, and 0.33 (J) μ g/L, respectively (Figure 4c). The trends plotted in Figures 4a-4c illustrate declining, low CTC concentrations; the data plotted in Figures 4a-4c are provided in Table 3.

An evaluation of the monitoring data indicates that MNA continues to be active based on the following observations:

- The declining trends in BMW-18, MW-1 and MW-13, and 11-BL;
- The absence of any increasing trends within the data set;
- That P2-S, MW-4, and 11-BL have been below or essentially equal to the regulatory limit for the past several years; and
- The concentrations at MW-1 and MW-13, which bound the upgradient and downgradient extents of the plume, are trending downward since the transition from low-flow sampling to using the PDBs.

CTC concentrations at P2-S were below the CTC cleanup level of $0.63 \mu g/L$ for the ninth (9) consecutive sampling event. The approved CMWP specifies the statistical method and the representative sampling period to determine when individual monitoring wells can be removed

from the Performance Monitoring program. Consistent with WAC 173-340-720 (9)(d)(i)(A), the CMWP states that "an individual compliance monitoring well will be removed from the Performance Monitoring program if the upper one-sided ninety-five percent confidence limit on the true mean groundwater concentration is below the MTCA cleanup level (which is currently 0.63 µg/L)." Per the CMWP, the representative sampling period is specified as being the preceding four (4) sampling events. Therefore, well P2-S meets the Ecology-approved criteria, as described in the CMWP, to be removed from the Performance Monitoring program. However, Ecology has previously not approved removal of this well from the performance monitoring network because it serves as a downgradient performance monitoring well for the CTC plume. Therefore, P2-S will continue to be monitored in 2022.

2022 Monitoring Schedule

After eight years of compliance monitoring, we believe there is an understanding of scale and rate of MNA occurring at the Site. The Companies request that future monitoring be changed to every other year. This proposed schedule will result in a monitoring event in 2023 with the event occurring in the spring (2nd quarter), to coincide with seasonally high groundwater elevations.

Conclusions and Recommendations

The eighth year of MNA compliance monitoring confirmed that CTC concentrations continue to be low and are declining. The results of the 2021 sampling event demonstrate that MNA is effectively reducing CTC concentrations at the Site.

Please contact Julie Peoples (423-336-4084) if you have questions regarding the information presented herein.

Sincerely,

James J. Deitsch, PhD., P.E. (GA)

(pmes of Deitors

Senior Principal

David L. Parkinson, PhD., P.G. (WA, TX)

David Hack

Principal

Cc: Julie Peoples, Olin Corporation

> Karen Burke, Mallinckrodt Deborah Taege, The Boeing Company Anne Smith, Tacoma Water

Attachments:

Tables

Figures

Attachment A: Analytical Laboratory Report

Tables

Table 1.

Performance Monitoring for 2021 Groundwater Sampling Event Water Level Data
Brazier Site, Frederickson, Washington

Well	Ground Elevation (ft MSL)	Top of Casing Elevation (MSL)	Top of Screen (MSL)	Bottom of Screen (MSL)	Aquifer	Sample Date	Depth to Water (ft)	Water Level (MSL)
11-BL	395.5	396.08	331.5	321.5	Lower - Aquifer A	04/29/21	37.41	358.67
11-CL	403.69	404.55	329.7	319.7	Lower - Aquifer A	04/29/21	42.27	362.28
BMW-18	409.74	412.09	375.7	345.7	Upper - Aquifer A	04/29/21	39.19	372.90
HLA-1	403.86	405.81	320.9	310.9	Lower - Aquifer A	04/29/21	43.60	362.21
MW-1	413.27	415.79	324.8	314.8	Lower - Aquifer A	04/29/21	39.31	376.48
MW-4	465.5	467.72	317.9	307.9	Aquifer A	04/29/21	115.45	352.27
P2-S	340.55	343.6	320.6	310.6	Upper - Aquifer A	04/29/21	15.12	328.48
MW-13	394.5	394.1	284.5	274.5	Aquifer A	04/29/21	52.84	341.26

Note: The Performance Monitoring Network was revised following the 2017 Annual Sampling Event in accordance with the criteria established in the Compliance Monitoring Work Plan and per Ecology approval dated 27 March 2018; BMW-3, MW-7, and P2-I were removed from the network and are no longer sampled as part of compliance monitoring.

Table 2.
Carbon Tetrachloride Results for 2021
Brazier Site, Frederickson, Washington

Well	PDB Deployment Date	Sample Date	Result (μg/L)	Lab MRL	Lab MDL	Qualifiers	Depth to Water (ft)	Water Level (MSL)
11-BL	4/15/2021	04/29/21	0.33	0.5	0.096	J	37.41	358.67
11-CL	4/15/2021	04/29/21	4.1	0.5	0.096		42.27	362.28
BMW-18	4/15/2021	04/29/21	2.9	0.5	0.096		39.19	372.90
HLA-1	4/15/2021	04/29/21	4.0	0.5	0.096		43.60	362.21
MW-1	4/15/2021	04/29/21	1.3	0.5	0.096		39.31	376.48
MW-4	4/15/2021	04/29/21	0.65	0.5	0.096		115.45	352.27
P2-S	4/15/2021	04/29/21	0.35	0.5	0.096	J	15.12	328.48
MW-13	4/15/2021	04/29/21	1.5	0.5	0.096		52.84	341.26

Notes:

BOLD = CTC value above groundwater cleanup level of 0.63 μ g/L

μg/L = micrograms per liter;

MRL = Method Reporting Limit

MDL = Method Detection Limit

Laboratory Qualifier:

J = Carbon Tetrachloride detected between the MDL and method reporting limit (MRL: 0.5 µg/L). The reported value is estimated.

Table 3.
2014-2021 Carbon Tetrachloride Groundwater Performance Monitoring Data Brazier Site, Frederickson, Washington

Wells	11-BL	11-CL	HLA-1	BMW-3	BMW-18	MW-1	MW-4	MW-7	P2-S	P2-I	MW-13
May-14	0.97	5.4	5.0	0.28	5.5	1.8	0.82	2.3	0.76	0.72	2.3
Oct-14	0.95	4.4	4.6	0.39	4.8	1.4	0.66	ND	ND	ND	1.9
Mar-15	0.64	4.3	4.4	0.19	4.2	1.5	0.62	0.22	0.29	ND	1.9
Oct-15	0.72	3.8	3.9	0.51	3.8	1.2	0.53	0.24	0.45	ND	1.7
May-16	0.50	2.9	3.6	0.27	3.7	1.5	0.51	ND	0.28	ND	1.3
Jun-17	0.74	3.7	4.4	0.43	4.7	1.8	0.67	ND	0.27	ND	1.6
May-18 ¹	0.51	4.1	4.5		3.4	2.1	0.67		0.36		1.8
May-19 ¹	0.89	4.4	4.6		3.5	1.7	0.67	-	0.37		2.0
May-20 ¹	0.38	3.2	3.8		2.5	1.3	0.58		0.36		1.7
April-21 ¹	0.33	4.1	4.0		2.9	1.3	0.65		0.35		1.5
95% UCL ²	0.89	4.4	4.6		3.5	2.1	0.67		0.37		2.0

Notes:

- 1 Groundwater sampling prior to 2018 was performed by low-flow method; use of passive diffusion bags for sampling began in 2018.
- 2 95% Upper Confidence Limit on true mean, using Ecology's Statistical Guidance for sample sets less than 20 (Example #15, page 97-98) https://fortress.wa.gov/ecy/publications/documents/9254.pdf

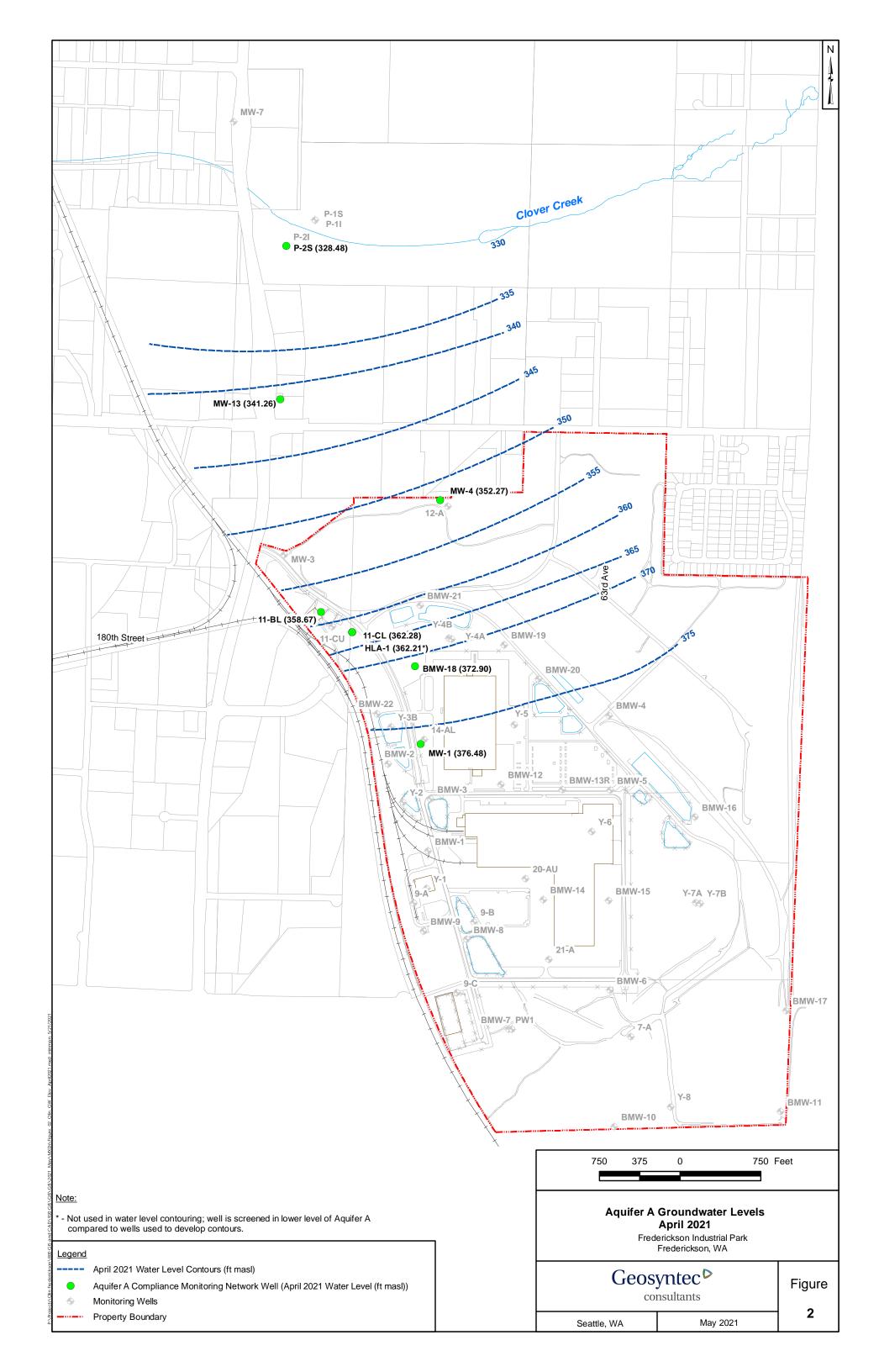
- 1.5 Bold values are above the CTC cleanup level of $0.63 \mu g/L$
- 0.5 Estimated Value (i.e., concentration greater than method detection limit but less than method reporting limit)
- ND Non-Detected (Method Detection = 0.096)
- Monitoring well no longer requires Performance Monitoring

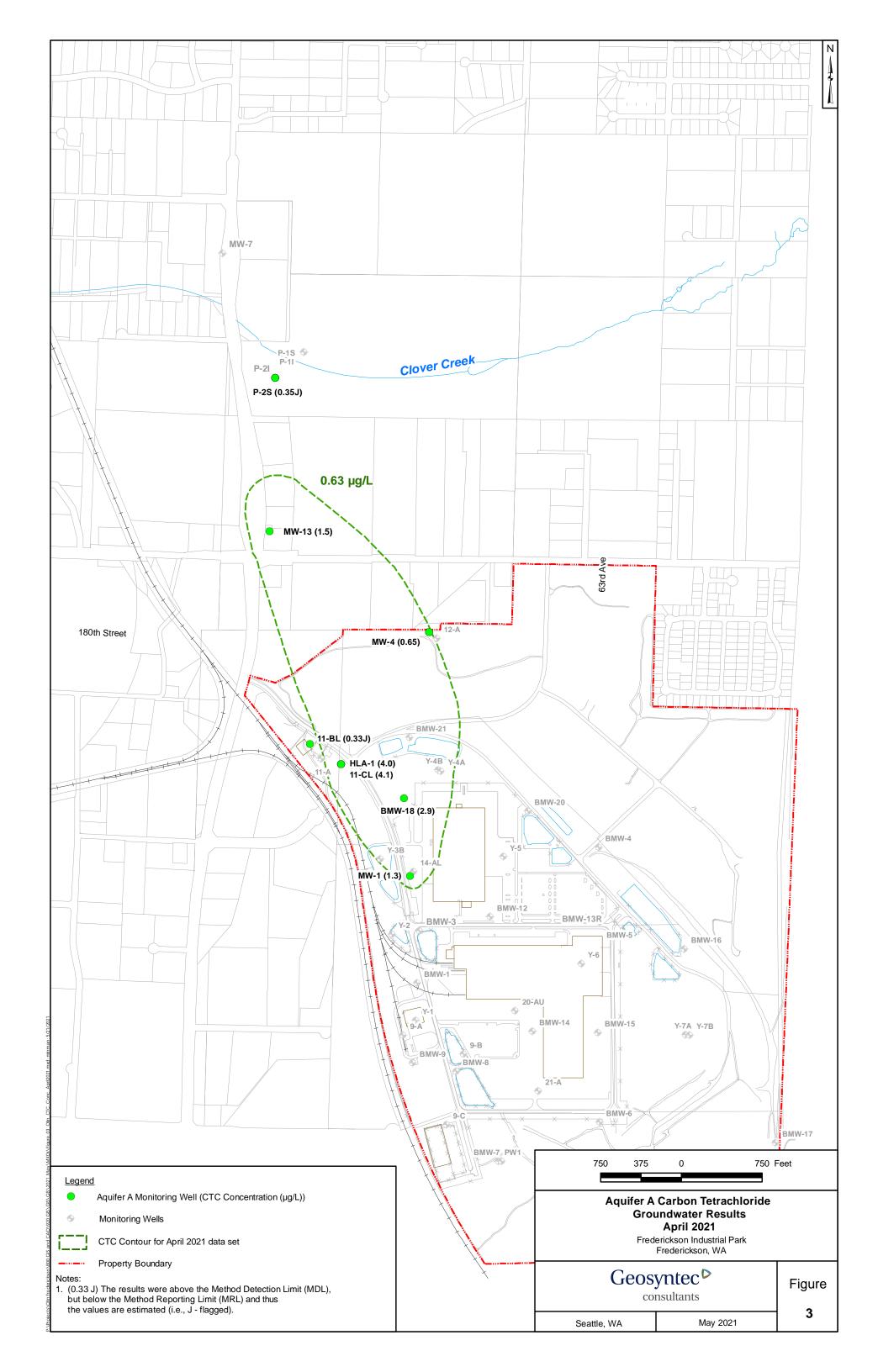
The Performance Monitoring Network was revised following the 2017 Annual Sampling Event in accordance with the criteria established in the Compliance Monitoring Work Plan and per Ecology approval dated 27 March 2018; BMW-3, MW-7, and P2-I were removed from the network and are no longer sampled as part of performance monitoring.

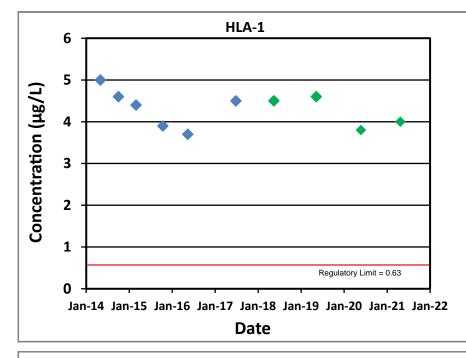
^{**}WAC 173-340-720 (9)(e)(iv) If more than fifty percent of the measurements are below the practical quantitation limit, the largest value in the data set shall be used in place of an upper confidence limit on the true mean groundwater calculation.

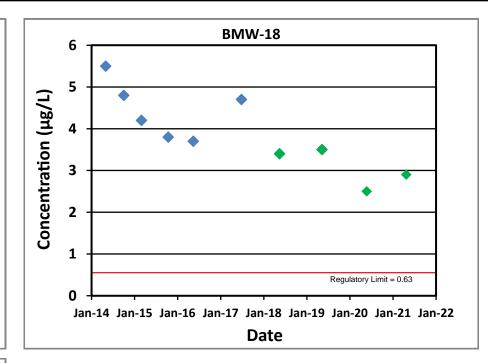
Figures

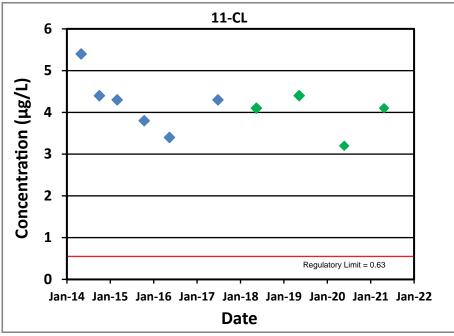


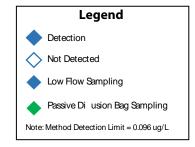




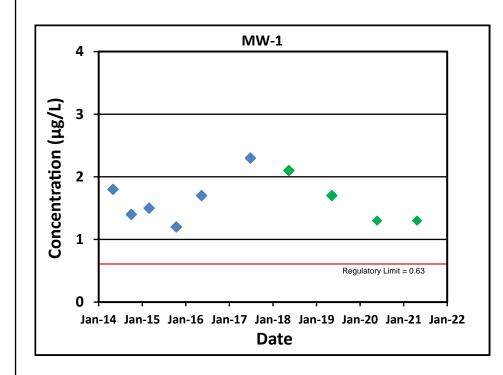


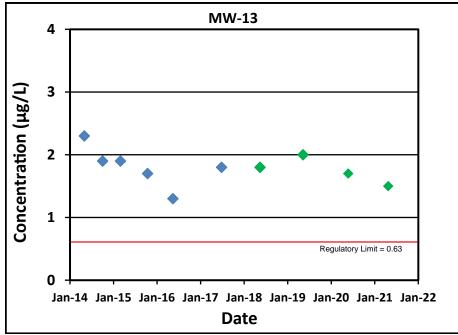


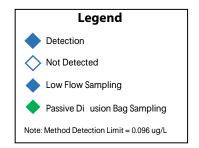


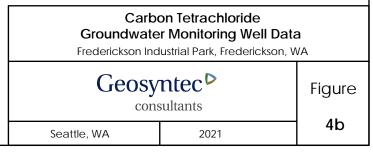


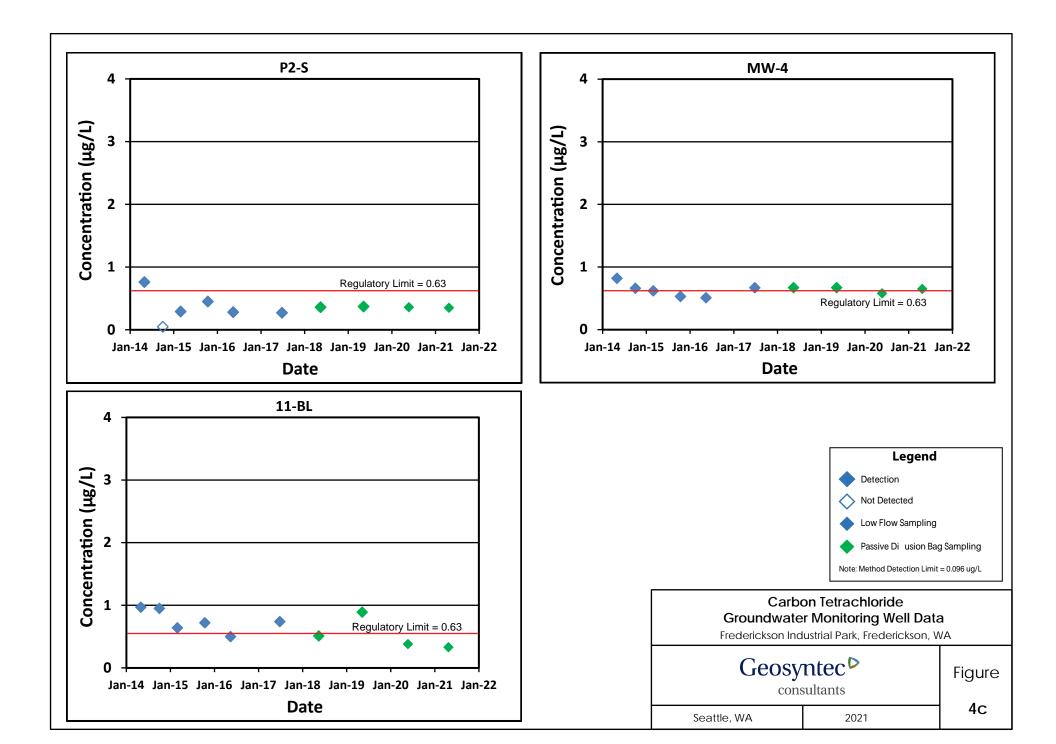












Attachment A



May 14, 2021

Dave Parkinson

Seattle, WA 98101

Geosyntec Consultants 520 Pike Street, Suite 2600 ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
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www.aisgiobai.com

Analytical Report for Service Request No: K2104733

RE: Frederickson Industrial Park

Dear Dave.

Enclosed are the results of the sample(s) submitted to our laboratory April 30, 2021 For your reference, these analyses have been assigned our service request number **K2104733**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3350. You may also contact me via email at Kelley.Lovejoy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Kelley Lovejoy

Kelley Lovejoy Project Manager



ALS Environmental ALS Group USA, Corp 1317 South 13th Avenue Kelso, WA 98626

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Acronyms

Qualifiers

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Volatile Organic Compounds

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LOD Limit of Detection
LOO Limit of Quantitation

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a substance

allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater than or

equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- \boldsymbol{Q} $\;\;$ See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-	
North Carolina DEQ	certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory 1317 South 13th Avenue, Kelso, WA 98626 Phone (360)577-7222 Fax (360)636-1068 www.alsglobal.com



Client:Geosyntec ConsultantsService Request: K2104733Project:Frederickson Industrial ParkDate Received: 04/30/2021

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier III level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 04/30/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by Kelley Lovejay

Date 05/14/2021



Chain of Custody

ALS Environmental—Kelso Laboratory 1317 South 13th Avenue, Kelso, WA 98626 Phone (360)577-7222 Fax (360)636-1068 www.alsglobal.com

ALS) Environmental



CHAIN OF CUSTODY

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4.64-042921-11-CL		4/29/21	0943	Luter				K								
5.6W-1742921-14LA-1		4/24/21	0956	Leuter				X								
6. GU-042921 - BMU-18		4/24/X)	102a	have-				K								
7.60-042921-BAU-18-MS		4/24/21	4108 100	2 (mayor				L]		
8.620-042721-BAU-18-ASD		4/29/21	ししょる	witer				X						1		
9. GU-042421- P2-S		4/29/21	1108	When				X]		
10.6W-042921-MW-13		4/20/21	1132	huter	-			X						1		
Report Requirements		oice Info	rmation			***************************************	·	-					Circ	cle which me	etals are to be analyzed	
I. Routine Report: Method Blank, Surrogate, as	P.O.#			l			Tota	i Mat	aio. I	SI A	~ e	h B			Fe Pb Mg Mn Mo Ni K Ag Na	Co Co Tl Co V 7- 11-
required	Bill To:															
II. Report Dup., MS, MSD				L								Sb			Cu Fe Pb Mg Mn Mo Ni K Ag N	-
as required	Turnare	ound Re	quireme	nts	Specia	Inst	ructi	ons/	Com	men	ts:		*Indicate :	State Hy	drocarbon Procedure: AK CA WI	Northwest Other(Circle One)
III. CLP Like Summary (no raw data)	2	4 hr.	48 hr.													
IV. Data Validation Report		Day tandard														
V. EDD		Requested Rep	on Date													
Relinquished By:	12	Received			Re	linq	uist	ned	Ву:				Received By:		Relinquished By:	Received By:
Signature	Signature		rves	Sigr	nature					•	s	igna	ture		Signature	Signature
				rinted Name						Р	Printed Name			Printed Name	Printed Name	
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Date/Time 200 VAC	Date/Time	•		Date	e/Time)					D	ate/	Time		Date/Time	Date/Time

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Page	🕏 of	1

1317 South 13th Ave, Keiso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 638	5-1068
www.alsglobat.com	

ject Name <u>01.0_tretr_brsco</u> ject Manager	Project Nu	mber;				70	14D									·
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one # 206 - 618 - 0360	email		····		F CO	SCMS	£									
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CLIENT SAMPLE ID	LABID	SAMF Date	LING Time	Matrix												
24-042921-MU-13-DUP		4/29/21		hater				X								
94-042921-Blank		4/29/2)		water				X		\perp		_				
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Report Requirements		oice Info	rmation			LJ	L				L		Circ	cle which me	etals are to be analyzed	
I. Routine Report: Method	P.O.#				Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg											
Blank, Surrogate, as required	Bill To:															Ag Na Se Sr Ti Sn V Zn Hg
II. Report Dup., MS, MSD as required					nonin			ons/C							rdrocarbon Procedure: AK CA	
III. CLP Like Summary			quiremer	its	pecia	HIS	iucti	UHS/C	OHIII	G1113.			motoate	Otate 1 Ty	GIOCAIDONT FOCEGAIC. AIX OX	Wi Modified Color Color
(no raw data)	5	Day	48 hr.						•							
IV. Data Validation Report	\$	tandard														
V. EDD		Requested Repo											<u>.</u>		••••••••••••••••••••••••••••••••••••••	
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Cooler Receipt and Preservation For	Receipt and Preservation For	rm
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Client <u> </u>	Client <u>Geo Syntec</u> Service Request K21										
Received: 4	130/21	Opened: _	4/30/21	By:	_cle		Unloaded		0/21_By	: <u>C6</u> 3	
1. Samples we	ere received via?	USPS	Fed Ex	UPS	Ľ)HL	PDX	Cour	ier Hand I	elivarad	>
2. Samples we	ere received in: (cir	rcle) <u>C</u>	ooler Box	1	Envelope	2	Other			NA.	
3. Were custoo	ly seals on coolers?	?	NA Y N	If yes,	how mai	ny and	where?				
If present, w	vere custody seals i	ntact?	Y N				signed and date		Y	N	
4. Was a Tempo	. Was a Temperature Blank present in cooler? NA Y (N) If yes, notate the temperature in the appropriate column below:										
If no, take the	ne temperature of a	representative	e sample bottle conta	ined witl	nin the c	ooler;	notate in the co	olumn "San	nple Temp":		
5. Were sample	s received within th	ne method spe	cified temperature ra	nges?					NA 🗹	N <	
If no, were the	ney received on ice	and same day	as collected? If not,	notate th	e cooler	# belo	w and notify t	he PM.	(NA) Y	N	
If applicable, tis	ssue samples were i	received:	Frozen Partially T	hawed	Thaw	ed					
· · · · · · · · · · · · · · · · · · ·				Alles a							
					Out	of tem)	Pi Noti				-
Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID /	NAO	indicate	e with	X" If out o	ftemp	Tracking Nun	nber (NA)	Filed
The state of the s	3.0	FROI			76	And the Person of the Person o					
			,								
											1
5. Packing ma	terial: Inserts 1	Raggios Ru	bble Wrap Gel Pac	de W	\sim	Dry Ice	Sieeves				
8. Were samp	dy papers properly les received in good mple labels comple	d condition (u	,	•			·		NA (Y NA (Y NA (Y) n) n	
	ple labels and tags								NA Y) N	
11. Were appro	priate bottles/conta	iners and vol	umes received for the	tests inc	licated?				NA (Y) _N	
12. Were the pl	H-preserved bottles	s (see SMO GI	EN SOP) received at t	the appro	priate p	H? Inc	dicate in the ta	ıble below	(NA) Y	N	
13. Were VOA	vials received with	out headspac	e? Indicate in the tal	ble belou	<i>'</i> .				NA Y) N	
14. Was C12/R	es negative?								(NA) Y	N	
6-			0							***************************************	•
Sa	mple ID on Botti	.e	Sampi	le ID on	COC				Identified by:		
		***************************************			······						
		******					1			 	
-		***************************************	Bottle Count	Head-	ŀ			Volume	Reagent Lot		
	Sample iD		Bottle Type		Broke	рН	Reagent	added	Number	Initials	Time
									· 		
				1							
Notes, Discrepancies, Resolutions:											
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Volatile Organic Compounds

ALS Environmental—Kelso Laboratory 1317 South 13th Avenue, Kelso, WA 98626 Phone (360)577-7222 Fax (360)636-1068 www.alsglobal.com

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park **Date Collected:** 04/29/21 08:04

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-MW-1
 Units: ug/L

 Lab Code:
 K2104733-001
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon Tetrachloride1.30.500.096105/05/21 17:42

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	68 - 117	05/05/21 17:42	
Dibromofluoromethane	93	73 - 122	05/05/21 17:42	
Toluene-d8	100	65 - 144	05/05/21 17:42	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Date Collected: 04/29/21 08:50 **Project:** Frederickson Industrial Park

Date Received: 04/30/21 16:20 **Sample Matrix:** Water

Sample Name: GW-042921-MW-4 Units: ug/L Lab Code: K2104733-002

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name Result **MRL MDL** Dil. **Date Analyzed** Q 0.65 0.50 0.096 05/05/21 18:09 Carbon Tetrachloride

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	68 - 117	05/05/21 18:09	
Dibromofluoromethane	95	73 - 122	05/05/21 18:09	
Toluene-d8	98	65 - 144	05/05/21 18:09	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Collected: 04/29/21 09:23

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-11-BL
 Units: ug/L

 Lab Code:
 K2104733-003
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Carbon Tetrachloride	0.33 Ј	0.50	0.096	1	05/05/21 18:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	68 - 117	05/05/21 18:35	
Dibromofluoromethane	98	73 - 122	05/05/21 18:35	
Toluene-d8	99	65 - 144	05/05/21 18:35	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Collected: 04/29/21 09:43

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-11-CL
 Units: ug/L

 Lab Code:
 K2104733-004
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Carbon Tetrachloride	4.1	0.50	0.096	1	05/05/21 19:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	68 - 117	05/05/21 19:02	
Dibromofluoromethane	97	73 - 122	05/05/21 19:02	
Toluene-d8	97	65 - 144	05/05/21 19:02	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Collected: 04/29/21 09:56

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-HLA-1
 Units: ug/L

 Lab Code:
 K2104733-005
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon Tetrachloride4.00.500.096105/05/21 19:28

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	68 - 117	05/05/21 19:28	
Dibromofluoromethane	95	73 - 122	05/05/21 19:28	
Toluene-d8	98	65 - 144	05/05/21 19:28	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Collected: 04/29/21 10:22

Sample Matrix: Water Date Received: 04/30/21 16:20

Sample Name: GW-042921-BMW-18 Units: ug/L

Lab Code: K2104733-006 **Basis:** NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon Tetrachloride2.90.500.096105/06/21 18:44

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	68 - 117	05/06/21 18:44	
Dibromofluoromethane	93	73 - 122	05/06/21 18:44	
Toluene-d8	97	65 - 144	05/06/21 18:44	

Analytical Report

Client:Geosyntec ConsultantsService Request:K2104733

Project: Frederickson Industrial Park Date Collected: 04/29/21 11:08

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-P2-S
 Units: ug/L

 Lab Code:
 K2104733-007
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon Tetrachloride0.35 J0.500.096105/06/21 19:11

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	68 - 117	05/06/21 19:11	
Dibromofluoromethane	93	73 - 122	05/06/21 19:11	
Toluene-d8	97	65 - 144	05/06/21 19:11	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park **Date Collected:** 04/29/21 11:32

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-MW-13
 Units: ug/L

 Lab Code:
 K2104733-008
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Carbon Tetrachloride	1.5	0.50	0.096	1	05/06/21 19:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	68 - 117	05/06/21 19:37	
Dibromofluoromethane	94	73 - 122	05/06/21 19:37	
Toluene-d8	97	65 - 144	05/06/21 19:37	

Analytical Report

Client:Geosyntec ConsultantsService Request:K2104733Project:Frederickson Industrial ParkDate Collected:04/29/21

Sample Matrix: Water Date Received: 04/30/21 16:20

 Sample Name:
 GW-042921-MW13-Dup
 Units: ug/L

 Lab Code:
 K2104733-009
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Carbon Tetrachloride	1.6	0.50	0.096	1	05/06/21 20:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	68 - 117	05/06/21 20:04	
Dibromofluoromethane	97	73 - 122	05/06/21 20:04	
Toluene-d8	101	65 - 144	05/06/21 20:04	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733 **Date Collected:** 04/29/21 **Project:** Frederickson Industrial Park

Sample Matrix: Water **Date Received:** 04/30/21 16:20

Sample Name: GW-042921-Blank Units: ug/L Lab Code: K2104733-010 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Carbon Tetrachloride	ND U	0.50	0.096	1	05/06/21 20:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	68 - 117	05/06/21 20:30	
Dibromofluoromethane	94	73 - 122	05/06/21 20:30	
Toluene-d8	98	65 - 144	05/06/21 20:30	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project:Frederickson Industrial ParkDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:KQ2108093-05Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon TetrachlorideND U0.500.096105/06/21 13:00

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	68 - 117	05/06/21 13:00	
Dibromofluoromethane	95	73 - 122	05/06/21 13:00	
Toluene-d8	99	65 - 144	05/06/21 13:00	

Analytical Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name:Method BlankUnits: ug/LLab Code:KQ2108177-05Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** None

Analyte NameResultMRLMDLDil.Date AnalyzedQCarbon TetrachlorideND U0.500.096105/05/21 12:49

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	68 - 117	05/05/21 12:49	
Dibromofluoromethane	95	73 - 122	05/05/21 12:49	
Toluene-d8	99	65 - 144	05/05/21 12:49	

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Extraction Method:** None

		4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
Sample Name	Lab Code	68-117	73-122	65-144
GW-042921-MW-1	K2104733-001	90	93	100
GW-042921-MW-4	K2104733-002	88	95	98
GW-042921-11-BL	K2104733-003	86	98	99
GW-042921-11-CL	K2104733-004	89	97	97
GW-042921-HLA-1	K2104733-005	87	95	98
GW-042921-BMW-18	K2104733-006	88	93	97
GW-042921-P2-S	K2104733-007	86	93	97
GW-042921-MW-13	K2104733-008	87	94	97
GW-042921-MW13-Dup	K2104733-009	89	97	101
GW-042921-Blank	K2104733-010	87	94	98
Method Blank	KQ2108093-05	89	95	99
Method Blank	KQ2108177-05	89	95	99
Lab Control Sample	KQ2108093-03	93	96	100
Duplicate Lab Control Sample	KQ2108093-04	95	100	101
Lab Control Sample	KQ2108177-03	92	96	101
Duplicate Lab Control Sample	KQ2108177-04	93	100	101
GW-042921-BMW-18	KQ2108093-06	93	96	99
GW-042921-BMW-18	KQ2108093-07	95	95	97

QA/QC Report

Client: Geosyntec Consultants

Project: Frederickson Industrial Park Service Request: K2104733 **Date Analyzed:**05/05/21 10:36

Internal Standard Area and RT SUMMARY Volatile Organic Compounds by GC/MS

File ID: $J:\backslash MS13\backslash DATA\backslash 050521\backslash 0505F004.D\backslash$

Instrument ID: K-MS-13

Analysis Method:

8260C

Lab Code:KQ2108177-02

Analysis Lot:722217

Signal ID:1

		Chlorobenzene-d5		1,4-Dichlorobenzene-d4		Fluorob	enzene
	•	Area	RT	Area	Area RT		RT
	Result ==>	143,879	9.36	114,453	11.96	394,730	5.32
	Upper Limit ==>	287,758	9.86	228,906	12.46	789,460	5.82
	Lower Limit ==>	71,940	8.86	57,227	11.46	197,365	4.82
Associated Analyses							
Lab Control Sample	KQ2108177-03	153204	9.36	113809	11.96	394281	5.32
Duplicate Lab Control Sample	KQ2108177-04	154787	9.36	119999	11.96	404024	5.32
Method Blank	KQ2108177-05	144451	9.36	105766	11.96	383109	5.32
GW-042921-MW-1	K2104733-001	143961	9.36	108289	11.96	363760	5.32
GW-042921-MW-4	K2104733-002	145657	9.36	107186	11.96	375659	5.32
GW-042921-11-BL	K2104733-003	151726	9.36	109817	11.95	383486	5.32
GW-042921-11-CL	K2104733-004	143406	9.36	101857	11.96	373033	5.32
GW-042921-HLA-1	K2104733-005	142598	9.36	104231	11.96	372479	5.32

QA/QC Report

Client: Geosyntec Consultants

Frederickson Industrial Park

Service Request: K2104733 **Date Analyzed:**05/06/21 10:47

Internal Standard Area and RT SUMMARY Volatile Organic Compounds by GC/MS

File ID: $J: \ MS13 \ DATA \ 050621 \ 0506F002.D \ \\$

8260C

Instrument ID: K-MS-13

Analysis Method:

Project:

Lab Code:KQ2108093-02

Analysis Lot:722503

Signal ID:1

		Chlorobenzene-d5		1,4-Dichloro	benzene-d4	Fluorobenzene	
	•	Area	RT	Area	RT	Area	RT
	Result ==>	148,406	9.36	110,978	11.96	368,161	5.32
	Upper Limit ==>	296,812	9.86	221,956	12.46	736,322	5.82
	Lower Limit ==>	74,203	8.86	55,489	11.46	184,081	4.82
Associated Analyses							
Lab Control Sample	KQ2108093-03	154727	9.36	118558	11.96	400627	5.32
Duplicate Lab Control Sample	KQ2108093-04	154671	9.36	117195	11.96	404892	5.32
Method Blank	KQ2108093-05	147062	9.36	112030	11.95	378330	5.32
GW-042921-BMW-18	K2104733-006	149722	9.36	106746	11.95	394066	5.32
GW-042921-P2-S	K2104733-007	152000	9.36	113111	11.95	396772	5.32
GW-042921-MW-13	K2104733-008	147898	9.36	109330	11.95	388981	5.32
GW-042921-MW13-Dup	K2104733-009	144978	9.36	105010	11.95	371684	5.32
GW-042921-Blank	K2104733-010	143402	9.36	106539	11.95	375336	5.32
GW-042921-BMW-18MS	KQ2108093-06	152130	9.36	117957	11.96	399963	5.32
GW-042921-BMW-18DMS	KQ2108093-07	153181	9.36	116423	11.96	411409	5.32

QA/QC Report

Client: Geosyntec Consultants **Service Request:** K2104733 **Project:** Frederickson Industrial Park **Date Collected:** 04/29/21 **Sample Matrix:** Water **Date Received:** 04/30/21 Date Analyzed: 05/6/21 **Date Extracted:** NA

> Duplicate Matrix Spike Summary Volatile Organic Compounds by GC/MS

 Sample Name:
 GW-042921-BMW-18
 Units:
 ug/L

 Lab Code:
 K2104733-006
 Basis:
 NA

Analysis Method: 8260C **Prep Method:** None

Matrix Spike Duplicate Matrix Spike

KQ2108093-06 KQ2108093-07

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon Tetrachloride	2.9	14.6	10.0	117	13.8	10.0	109	53-161	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

QA/QC Report

Client:Geosyntec ConsultantsService Request:K2104733Project:Frederickson Industrial ParkDate Analyzed:05/06/21Sample Matrix:WaterDate Extracted:NA

Duplicate Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Analysis Method:8260CUnits:ug/LPrep Method:NoneBasis:NA

Analysis Lot: 722503

Lab Control Sample

KQ2108093-03

Duplicate Lab Control Sample

KQ2108093-04

% Rec **Analyte Name** Result **Spike Amount** % Rec Result **Spike Amount** % Rec Limits **RPD RPD Limit** Carbon Tetrachloride 97 98 9.67 10.0 9.84 10.0 55-140 30

QA/QC Report

Client:Geosyntec ConsultantsService Request:K2104733Project:Frederickson Industrial ParkDate Analyzed:05/05/21Sample Matrix:WaterDate Extracted:NA

Duplicate Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Analysis Method:8260CUnits:ug/LPrep Method:NoneBasis:NA

Analysis Lot: 722217

Lab Control Sample
KQ2108177-03
Duplicate Lab Control Sample
KQ2108177-04

% Rec **Analyte Name** Result **Spike Amount** % Rec Result **Spike Amount** % Rec Limits **RPD RPD Limit** Carbon Tetrachloride 93 9.26 10.0 9.05 10.0 91 55-140 30

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733 **Project:** Frederickson Industrial Park **Date Analyzed:** 05/06/21 13:00

Sample Matrix: Water

Date Extracted:

Method Blank Summary Volatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**K-MS-13 Method Blank

Lab Code: KQ2108093-05 **File ID:**J:\MS13\DATA\050621\0506F007.D\

Analysis Method: 8260C Analysis Lot:722503

Prep Method: None

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2108093-03	J:\MS13\DATA\050621\0506F003.D\	05/06/21 11:13
Duplicate Lab Control Sample	KQ2108093-04	J:\MS13\DATA\050621\0506F004.D\	05/06/21 11:40
GW-042921-BMW-18	K2104733-006	J:\MS13\DATA\050621\0506F019.D\	05/06/21 18:44
GW-042921-P2-S	K2104733-007	J:\MS13\DATA\050621\0506F020.D\	05/06/21 19:11
GW-042921-MW-13	K2104733-008	J:\MS13\DATA\050621\0506F021.D\	05/06/21 19:37
GW-042921-MW13-Dup	K2104733-009	J:\MS13\DATA\050621\0506F022.D\	05/06/21 20:04
GW-042921-Blank	K2104733-010	J:\MS13\DATA\050621\0506F023.D\	05/06/21 20:30
GW-042921-BMW-18MS	KQ2108093-06	J:\MS13\DATA\050621\0506F024.D\	05/06/21 20:57
GW-042921-BMW-18DMS	KQ2108093-07	J:\MS13\DATA\050621\0506F025.D\	05/06/21 21:23

QA/QC Report

Client: Geosyntec Consultants **Service Request:** K2104733

Project: Frederickson Industrial Park **Date Analyzed:** 05/05/21 12:49 Sample Matrix: Water

Date Extracted:

Method Blank Summary Volatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**K-MS-13 Method Blank

Lab Code: KQ2108177-05 **File ID:**J:\MS13\DATA\050521\0505F009.D\

Analysis Method: 8260C Analysis Lot:722217

Prep Method: None

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2108177-03	J:\MS13\DATA\050521\0505F005.D\	05/05/21 11:03
Duplicate Lab Control Sample	KQ2108177-04	J:\MS13\DATA\050521\0505F006.D\	05/05/21 11:29
GW-042921-MW-1	K2104733-001	J:\MS13\DATA\050521\0505F020.D\	05/05/21 17:42
GW-042921-MW-4	K2104733-002	J:\MS13\DATA\050521\0505F021.D\	05/05/21 18:09
GW-042921-11-BL	K2104733-003	J:\MS13\DATA\050521\0505F022.D\	05/05/21 18:35
GW-042921-11-CL	K2104733-004	J:\MS13\DATA\050521\0505F023.D\	05/05/21 19:02
GW-042921-HLA-1	K2104733-005	J:\MS13\DATA\050521\0505F024.D\	05/05/21 19:28

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733 **Project:** Frederickson Industrial Park **Date Analyzed:** 05/06/21 11:13

Sample Matrix: Water **Date Extracted:**

Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**K-MS-13 Lab Control Sample

Lab Code: KQ2108093-03 **File ID:**J:\MS13\DATA\050621\0506F003.D\

Analysis Method: 8260C Analysis Lot:722503

Prep Method: None

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	KQ2108093-04	J:\MS13\DATA\050621\0506F004.D\	05/06/21 11:40
Method Blank	KQ2108093-05	J:\MS13\DATA\050621\0506F007.D\	05/06/21 13:00
GW-042921-BMW-18	K2104733-006	J:\MS13\DATA\050621\0506F019.D\	05/06/21 18:44
GW-042921-P2-S	K2104733-007	J:\MS13\DATA\050621\0506F020.D\	05/06/21 19:11
GW-042921-MW-13	K2104733-008	J:\MS13\DATA\050621\0506F021.D\	05/06/21 19:37
GW-042921-MW13-Dup	K2104733-009	J:\MS13\DATA\050621\0506F022.D\	05/06/21 20:04
GW-042921-Blank	K2104733-010	J:\MS13\DATA\050621\0506F023.D\	05/06/21 20:30
GW-042921-BMW-18MS	KQ2108093-06	J:\MS13\DATA\050621\0506F024.D\	05/06/21 20:57
GW-042921-BMW-18DMS	KQ2108093-07	J:\MS13\DATA\050621\0506F025.D\	05/06/21 21:23

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733 **Project:** Frederickson Industrial Park **Date Analyzed:** 05/05/21 11:03

Sample Matrix: Water

Date Extracted:

Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**K-MS-13 Lab Control Sample

Lab Code: KQ2108177-03 **File ID:**J:\MS13\DATA\050521\0505F005.D\

Analysis Method: 8260C Analysis Lot:722217

Prep Method: None

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	KQ2108177-04	J:\MS13\DATA\050521\0505F006.D\	05/05/21 11:29
Method Blank	KQ2108177-05	J:\MS13\DATA\050521\0505F009.D\	05/05/21 12:49
GW-042921-MW-1	K2104733-001	J:\MS13\DATA\050521\0505F020.D\	05/05/21 17:42
GW-042921-MW-4	K2104733-002	J:\MS13\DATA\050521\0505F021.D\	05/05/21 18:09
GW-042921-11-BL	K2104733-003	J:\MS13\DATA\050521\0505F022.D\	05/05/21 18:35
GW-042921-11-CL	K2104733-004	J:\MS13\DATA\050521\0505F023.D\	05/05/21 19:02
GW-042921-HLA-1	K2104733-005	J:\MS13\DATA\050521\0505F024.D\	05/05/21 19:28

QC/QC Report

Client: Geosyntec Consultants

Project: Frederickson Industrial Park

Service Request: K2104733

Date Analyzed:05/05/21 10:09

Tune Summary Volatile Organic Compounds by GC/MS

 File ID:
 J:\MS13\DATA\050521\0505F003.D\
 Analytical Method:
 8260C

 Instrument ID:
 K-MS-13
 Analysis Lot:
 722217

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.74	2032	Pass
75	95	30	60	50.68	4737	Pass
95	95	100	100	100.00	9347	Pass
96	95	5	9	7.41	693	Pass
173	174	0	2	1.18	94	Pass
174	95	50	120	84.99	7944	Pass
175	174	5	9	7.92	629	Pass
176	174	95	101	97.53	7748	Pass
177	176	5	9	7.54	584	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	KQ2108177-02	J:\MS13\DATA\050521\0505F004.D\	05/05/21 10:36	
Lab Control Sample	KQ2108177-03	J:\MS13\DATA\050521\0505F005.D\	05/05/21 11:03	
Duplicate Lab Control Sample	KQ2108177-04	J:\MS13\DATA\050521\0505F006.D\	05/05/21 11:29	
Method Blank	KQ2108177-05	J:\MS13\DATA\050521\0505F009.D\	05/05/21 12:49	
GW-042921-MW-1	K2104733-001	$J: \ MS13 \ DATA \ 050521 \ 0505F020.D \ \ \\$	05/05/21 17:42	
GW-042921-MW-4	K2104733-002	$J: \ \ MS13 \ \ \ DATA \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	05/05/21 18:09	
GW-042921-11-BL	K2104733-003	$J: \ MS13 \ DATA \ 050521 \ 0505F022.D \ \ \\$	05/05/21 18:35	
GW-042921-11-CL	K2104733-004	$J: \ MS13 \ DATA \ 050521 \ 0505F023.D \ \ \\$	05/05/21 19:02	
GW-042921-HLA-1	K2104733-005	J:\MS13\DATA\050521\0505F024.D\	05/05/21 19:28	

QC/QC Report

Client: Geosyntec Consultants

Project: Frederickson Industrial Park

Service Request: K2104733

Date Analyzed:05/06/21 10:17

Tune Summary Volatile Organic Compounds by GC/MS

 File ID:
 J:\MS13\DATA\050621\0506F001.D\
 Analytical Method:
 8260C

 Instrument ID:
 K-MS-13
 Analysis Lot:
 722503

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.15	2373	Pass
75	95	30	60	52.24	5862	Pass
95	95	100	100	100.00	11221	Pass
96	95	5	9	7.82	877	Pass
173	174	0	2	0.78	71	Pass
174	95	50	120	81.33	9126	Pass
175	174	5	9	5.60	511	Pass
176	174	95	101	98.36	8976	Pass
177	176	5	9	5.99	538	Pass

Sample Name	Lab Code	File ID:	Date Analyzed: Q
Continuing Calibration Verification	KQ2108093-02	J:\MS13\DATA\050621\0506F002.D\	05/06/21 10:47
Lab Control Sample	KQ2108093-03	J:\MS13\DATA\050621\0506F003.D\	05/06/21 11:13
Duplicate Lab Control Sample	KQ2108093-04	J:\MS13\DATA\050621\0506F004.D\	05/06/21 11:40
Method Blank	KQ2108093-05	J:\MS13\DATA\050621\0506F007.D\	05/06/21 13:00
GW-042921-BMW-18	K2104733-006	J:\MS13\DATA\050621\0506F019.D\	05/06/21 18:44
GW-042921-P2-S	K2104733-007	J:\MS13\DATA\050621\0506F020.D\	05/06/21 19:11
GW-042921-MW-13	K2104733-008	J:\MS13\DATA\050621\0506F021.D\	05/06/21 19:37
GW-042921-MW13-Dup	K2104733-009	J:\MS13\DATA\050621\0506F022.D\	05/06/21 20:04
GW-042921-Blank	K2104733-010	J:\MS13\DATA\050621\0506F023.D\	05/06/21 20:30
GW-042921-BMW-18	KQ2108093-06	J:\MS13\DATA\050621\0506F024.D\	05/06/21 20:57
GW-042921-BMW-18	KQ2108093-07	J:\MS13\DATA\050621\0506F025.D\	05/06/21 21:23

QA/QC Report

Client:Geosyntec ConsultantsService Request: K2104733Project:Frederickson Industrial ParkCalibration Date: 7/25/2019

Initial Calibration Summary Volatile Organic Compounds by GC/MS

Calibration ID: KC1900305 Signal ID: 1

Instrument ID: K-MS-13

#	Lab (Code	Sample N	Sample Name			File Lo	File Location				Acq	uisition Date	
01	KC190	0305-01	CAL 0.1 PP	В			I:\MS13\	I:\MS13\DATA\072519\0725F006.D				07/25/2019 09:26		
02	KC190	0305-02	CAL 0.2 PP	CAL 0.2 PPB			I:\MS13\	DATA	\072519\07	25F007.D		07/25/2019 09:52		
03	KC190	0305-03	CAL 0.5 PP	В			I:\MS13\	DATA	\072519\07	25F008.D		07/2	25/2019 10:19	
04	KC190	0305-04	CAL 1.0 PP	В			I:\MS13\	DATA	\072519\07	25F009.D		07/	25/2019 10:45	
05	KC190	0305-05	CAL 2.0 PP	В			I:\MS13\	DATA	\072519\07	25F010.D		07/2	25/2019 11:12	
06	KC190	0305-06	CAL 5.0 PP	В			I:\MS13\	DATA	\072519\07	25F011.D		07/2	25/2019 11:38	
07	KC190	0305-07	CAL 10 PP	В			I:\MS13\	DATA	\072519\07	25F012.D		07/2	25/2019 12:04	
08	KC190	0305-08	CAL 40 PP	В			I:\MS13\	DATA	\072519\07	25F014.D		07/2	25/2019 12:57	
09	KC190	0305-09	CAL 60 PP	В			I:\MS13\	DATA	\072519\07	25F015.D		07/2	25/2019 13:24	
10	KC190	0305-10	CAL 80 PP	В			I:\MS13\	DATA	\072519\07	25F016.D		07/2	25/2019 13:50	
11	KC190	0305-11	CAL 20 PP	В			I:\MS13\	DATA	\072519\07	25F020.D		07/25/2019 15:37		
Ana	lyte													
4-Br	omofluoro	benzene												
#	Amount	RF		#	Amount	RF		#	Amount	RF	#	Amount	RF	
04	4.000	0.7102		05	6.000	0.7459		06	8.000	0.8099	07	10.000	0.884	
11	12.000	0.8483		08	14.000	0.9184		09	16.000	0.9014	10	20.000	0.8605	
Carl	on Tetrac	hloride												
#	Amount	RF		#	Amount	RF		#	Amount	RF	#	Amount	RF	
01	0.100	0.324		02	0.200	0.3124		03	0.500	0.3236	04	1.000	0.334	
05	2.000	0.3241		06	5.000	0.3497		07	10.000	0.3693	11	20.000	0.3879	
08	40.000	0.4306		09	60.000	0.4261		10	80.000	0.4285				
Dibr	omofluoro	methane												
#	Amount	RF		#	Amount	RF		#	Amount	RF	#	Amount	RF	
04	4.000	0.1918		05	6.000	0.1983		06	8.000	0.2236	07	10.000	0.2269	
11	12.000	0.2303		08	14.000	0.2471		09	16.000	0.2509	10	20.000	0.2449	
Tolu	ene-d8													
#	Amount	RF		#	Amount	RF		#	Amount	RF	#	Amount	RF	
04	4.000	0.871		05	6.000	0.8991		06	8.000	0.9763	07	10.000	1.003	
11	12.000	0.9751		08	14.000	1.012		09	16.000	1.016	10	20.000	1.007	

QA/QC Report

Client: Geosyntec Consultants Project: Frederickson Industrial Park Service Request: K2104733

Calibration Date: 7/25/2019

Initial Calibration Summary Volatile Organic Compounds by GC/MS

Calibration ID: KC1900305 Signal ID: 1

Instrument ID: K-MS-13

			Calibration 1	Calibration Evaluation			
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	8.9	20	0.8348	0.01
Carbon Tetrachloride	TRG	Average RF	% RSD	12.8	20	0.3646	0.100
Dibromofluoromethane	SURR	Average RF	% RSD	9.7	20	0.2267	0.01
Toluene-d8	SURR	Average RF	% RSD	5.7	20	0.97	0.01

QA/QC Report

Client:Geosyntec ConsultantsService Request: K2104733Project:Frederickson Industrial ParkCalibration Date: 7/25/2019

Initial Calibration Verification Summary Volatile Organic Compounds by GC/MS

Calibration ID: KC1900305 Signal ID: 1

Instrument ID: K-MS-13

# Lab Code Sample Name File Location							Acquisition Date		
12	KC1900305-12 ICV		I:\MS13\	DATA\072519\0725I	07/2	07/25/2019 16:56			
Ana	llyte Name		Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Carb	on Tetrachloride		10.0	9.46	3.646E-1	3.45E-1	-5.353	±30	Average RF
						SSV			
Ana	lyte Name		Expected	Result	Average RF	RF	% D	Criteria	Curve Fit
4-Bro	omofluorobenzene		10.0	9.42	8.348E-1	7.864E-1	-5.803	±30	Average RF
Dibro	omofluoromethane		10.0	9.59	2.267E-1	2.175E-1	-4.065	±30	Average RF
Toluc	ene-d8		10.0	10.0	9.7E-1	9.723E-1	0.230	±30	Average RF

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Analyzed: 05/06/21 10:47

Continuing Calibration Verification (CCV) Summary Volatile Organic Compounds by GC/MS

Signal ID: 1 **Analysis Lot:** 722503

Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Carbon Tetrachloride	10.0	11.0	0.3646	0.3997	9.6	NA	±20	Average RF
Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	10.0	9.29	0.8348	0.7752	-7.1	NA	±20	Average RF
Dibromofluoromethane	10.0	9.44	0.2267	0.2139	-5.6	NA	±20	Average RF
Toluene-d8	10.0	10.4	0.97	1.0124	4.4	NA	±20	Average RF

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park Date Analyzed: 05/05/21 10:36

Continuing Calibration Verification (CCV) Summary Volatile Organic Compounds by GC/MS

Analysis Method: 8260C Calibration Date: 7/25/2019

 File ID:
 J:\MS13\DATA\050521\0505F004.D\
 Calibration ID:
 KC1900305

 Signal ID:
 1
 Analysis Lot:
 722217

9.43

10.1

10.0

10.0

Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Carbon Tetrachloride	10.0	9.08	0.3646	0.331	-9.2	NA	±20	Average RF
Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	10.0	10.1	0.8348	0.8447	1.2	NA	±20	Average RF

0.2267

0.97

-5.7

0.6

0.2138

0.9761

NA

NA

 ± 20

 ± 20

Average RF

Average RF

Dibromofluoromethane

Toluene-d8

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park

Analysis Run Log Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:722217

Instrument ID:K-MS-13

			Date	Time	
Raw Data File	Sample Name	Lab Code	Analyzed	Analyzed	Q
J:\MS13\DATA\050521\0505F003.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	10:09:00	
J:\MS13\DATA\050521\0505F004.D\	Continuing Calibration Verification	KQ2108177-02	5/5/2021	10:36:00	
J:\MS13\DATA\050521\0505F005.D\	Lab Control Sample	KQ2108177-03	5/5/2021	11:03:00	
J:\MS13\DATA\050521\0505F006.D\	Duplicate Lab Control Sample	KQ2108177-04	5/5/2021	11:29:00	
J:\MS13\DATA\050521\0505F009.D\	Method Blank	KQ2108177-05	5/5/2021	12:49:00	
J:\MS13\DATA\050521\0505F013.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	14:36:00	
J:\MS13\DATA\050521\0505F014.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	15:03:00	
J:\MS13\DATA\050521\0505F015.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	15:29:00	
J:\MS13\DATA\050521\0505F016.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	15:56:00	
J:\MS13\DATA\050521\0505F017.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	16:22:00	
J:\MS13\DATA\050521\0505F018.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	16:49:00	
J:\MS13\DATA\050521\0505F019.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	17:15:00	
J:\MS13\DATA\050521\0505F020.D\	GW-042921-MW-1	K2104733-001	5/5/2021	17:42:00	
J:\MS13\DATA\050521\0505F021.D\	GW-042921-MW-4	K2104733-002	5/5/2021	18:09:00	
J:\MS13\DATA\050521\0505F022.D\	GW-042921-11-BL	K2104733-003	5/5/2021	18:35:00	
J:\MS13\DATA\050521\0505F023.D\	GW-042921-11-CL	K2104733-004	5/5/2021	19:02:00	
J:\MS13\DATA\050521\0505F024.D\	GW-042921-HLA-1	K2104733-005	5/5/2021	19:28:00	
J:\MS13\DATA\050521\0505F025.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	19:55:00	
J:\MS13\DATA\050521\0505F026.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	20:21:00	
J:\MS13\DATA\050521\0505F028.D\	ZZZZZZZ	ZZZZZZZ	5/5/2021	21:14:00	

Printed 5/14/2021 1:45:46 PM Superset Reference:

QA/QC Report

Client: Geosyntec Consultants Service Request: K2104733

Project: Frederickson Industrial Park

Analysis Run Log Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:722503
Instrument ID:K-MS-13

			Date	Time	
Raw Data File	Sample Name	Lab Code	Analyzed	Analyzed	Q
J:\MS13\DATA\050621\0506F001.D\	ZZZZZZZ	ZZZZZZZ	5/6/2021	10:17:00	
J:\MS13\DATA\050621\0506F002.D\	Continuing Calibration Verification	KQ2108093-02	5/6/2021	10:47:00	
J:\MS13\DATA\050621\0506F003.D\	Lab Control Sample	KQ2108093-03	5/6/2021	11:13:00	
J:\MS13\DATA\050621\0506F004.D\	Duplicate Lab Control Sample	KQ2108093-04	5/6/2021	11:40:00	
J:\MS13\DATA\050621\0506F007.D\	Method Blank	KQ2108093-05	5/6/2021	13:00:00	
J:\MS13\DATA\050621\0506F017.D\	ZZZZZZZ	ZZZZZZZ	5/6/2021	17:51:00	
J:\MS13\DATA\050621\0506F018.D\	ZZZZZZZ	ZZZZZZZ	5/6/2021	18:17:00	
J:\MS13\DATA\050621\0506F019.D\	GW-042921-BMW-18	K2104733-006	5/6/2021	18:44:00	
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Printed 5/14/2021 1:45:47 PM Superset Reference: