

November 18, 2022

Project No. 20146060

Ms. Lauren Sullivan, Assistant Project Manager, Development Construction

RioCan Realty Inv. Partner 11LP
2300 Yonge Street, Suite 500
P.O. BOX 2386
Toronto, ON
M4P 1E4

SUMMARY OF ANALYTICAL RESULTS

**PRELIMINARY EXCESS SOIL CHARACTERIZATION OF STOCKPILES
WINDFIELDS FARM DEVELOPMENT BLOCKS C1 AND C2
OSHAWA, ONTARIO**

Dear Ms. Sullivan,

WSP | Golder Associates Ltd. (WSP Golder) was retained by the RioCan Realty Inv. Partner 11LP (RioCan) to provide preliminary excess soil characterization for the soil and topsoil stockpiles located on Blocks C1 and C2 of the Windfields Farm Development directly south of Windfields Farm Drive West and on either side (east and west) of Thoroughbred Street in Oshawa, Ontario (the Site).

We understand that the objective of this preliminary excess soil characterization program is to assess the preliminary environmental quality of the stockpiles in support of the requirements of Ontario Regulation 406/19, *On-Site and Excess Soil Management* (O. Reg. 406/19), as the material is anticipated to be exported off-Site and/or to another adjacent Windfields Farm Development block, owned by RioCan.

We understand that approximately 30,000 cubic metres (m^3) of soil are stored in two stockpiles; a reworked native soil pile containing approximately 24,000 m^3 (soil pile) and a topsoil pile containing approximately 6,000 m^3 (topsoil pile). This material will need to be managed according to O. Reg. 406/19, parts of which came into effect January 1st, 2021 and other parts will come into effect January 1st, 2023.

1.0 SCOPE OF WORK

Excess soil should be managed under the direction of a Qualified Person (QP), as defined in O.Reg. 153/04, in accordance with the applicable provisions of O.Reg. 406/19. Depending on the specific details of the source site and the proposed Reuse Site(s) (i.e., receiving sites) local municipal bylaws or other regulatory instruments governing the placement of excess soil may also need to be considered. If the Reuse Site is subject to a Record of Site Condition, the imported soil provisions of O.Reg. 153/04 may also apply.

As such, excess soil quality at Project Areas (i.e., source sites) should generally be evaluated in accordance with the sampling and analysis requirements of O.Reg. 406/19, including the incorporation of the “Soil Rules” document which includes the new excess soil quality standards (ESQS).

The scope of work completed at the Site is considered preliminary in nature and will allow RioCan to assess potential Reuse or Disposal Sites, but it does not meet all aspects of O. Reg. 406/19. It is noted that potential Reuse or Disposal Sites may have additional requirements or require strict adherence to O. Reg. 406/19 requirements, which have not been included in this preliminary scope of work, including (but not limited to) the completion of an Assessment of Past Uses Report (APU) and/or an updated Phase One Environmental Site Assessment (Phase One ESA).

Based upon a review of the previous Phase One Environmental Site Assessment (Phase One ESA) completed in 2015, as well the 2017 Phase One ESA Update and Phase Two ESA completed at the Site (Parcel C), several areas of potential environmental concern (APECs) were identified and subsequently investigated. As per the findings of the 2017 Phase Two ESA, no exceedances of the applicable Site Condition Standards had been identified at the Site as of the March 16, 2017 certification date, and no further work was recommended; however, given the requirements of O.Reg. 406/19, these APECs needed to be taken into consideration, and as such, the following supplemental scope of work was completed to assess the stockpiled material:

- Completion of 18 test pits throughout the 24,000 m³ soil stockpile and collection of 27 soil samples (including duplicates) for laboratory analysis;
- Completion of 6 test pits throughout the approximately 6,000 m³ topsoil stockpile and collection of 7 soil samples (including duplicates) for laboratory analysis;
- Submission of 34 soil samples for chemical analysis of: petroleum hydrocarbon fractions F1-F4 (PHC F1-F4), including benzene, toluene, ethylbenzene and xylenes (BTEX), metals & inorganics, other regulated parameters (ORPs) including pH, as well as organochlorine pesticides (OCPs);
- Collection of 5 samples for Synthetic Precipitation Leaching Procedure (SPLP) leachable metals (approximately 10% of the total number of samples collected); and
- The preparation of this summary letter report.

2.0 METHODOLOGY

The soil sampling programs completed by WSP Golder were conducted in general accordance with O.Reg. 406/19 “*On-Site and Excess Soil Management*”, the associated “*Rules for Soil Management and Excess Soil Quality Standards*”, December 2020 (“Soil Rules”) as well as the Ontario Ministry of Environment, Conservation and Parks (“MECP”), “*Protocol for Analytical Methods Used in the Assessment of Properties and Excess Soil Quality under Part XV.1 of the Environmental Protection Act*” (“MECP Protocol”), version 3.0, March 9, 2004, revised July 2011, and revised November 30, 2020.

A WSP Golder field technician attended the Site on November 2nd and 3rd, 2022 to complete the test pitting and soil sampling program. Test pits were excavated by Hard-Co Construction on behalf of RioCan to facilitate sample collection.

In total, 24 test pits were excavated to varying depths of up to 4 m bgs, including 18 test pits of stockpiled soil (reworked native/fill) on Block C1 and 6 test pits of stockpiled topsoil located on Block C2. Soil samples were collected using a clean shovel and/or a clean gloved hand. All samples were placed into laboratory-supplied sampling containers for possible submission to the analytical laboratory. A portion of each sample was collected into plastic headspace bags for subsequent headspace screening of combustible and organic vapours. Upon collection, soil samples were placed in a cooler on ice until delivery, under chain-of-custody documentation, to Bureau Veritas Laboratories (BVL) in Mississauga for chemical analysis.

3.0 SUMMARY OF ANALYTICAL RESULTS

Headspace readings were conducted using an RKI Eagle II combustible and organic vapour monitor, and readings ranged from 0 parts per million (ppm) to 10 ppm (TP4 SA1 and SA2) for combustible vapours, and from 0 ppm to 1 ppm (TP3 SA1) for organic vapours.

A total of 34 soil samples (including duplicates) were submitted for chemical analysis of: metals & inorganics, ORPs (including pH), PHC F1-F4, BTEX, and OCPs; additionally, 5 of the samples were submitted for modified synthetic precipitation leaching procedure (mSPLP) analysis of metals.

For reference, soil samples were compared to the O.Reg. 153/04 Table 2 (Residential / Parkland / Institutional) Site Condition Standards for coarse textured soil¹ and the O.Reg. 406/19 ESQS Table 2.1 (Potable – Residential / Parkland / Institutional) criteria in Appendices 1 and 2 of the Soil Rules Document for coarse textured soil². Based upon a comparison of the analytical results to both sets of the Table 2 Standards, all samples satisfied the criteria for the parameters tested.

Based upon a comparison of the analytical results for the mSPLP samples as compared to O.Reg. 406/19 ESQS in Appendices 1 and 2 of the Soil Rules Document, all samples satisfied the ESQS for the parameters tested.

4.0 LIMITATIONS

This letter was prepared for the exclusive use of RioCan. No third parties may rely upon this report. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third party. This report is based on data and information collected during this environmental investigation conducted by WSP | Golder Associates Ltd. in accordance with our proposal and is based solely on site conditions encountered at the time of the field investigation. In preparing this site assessment, WSP Golder evaluated only conditions on the Site and did not evaluate the operations on adjacent properties. Only limited chemical analyses of soil samples were carried out. Regulatory criteria are used for comparison purposes only and are not necessarily enforceable on the Site owner. It should be noted that the results of an investigation of this nature should, in no way, be construed as a warranty that the site is free from any and all contamination from past or current practices. Conditions observed within the boreholes are based on non-continuous soil sampling. Conditions reported in the boreholes and the results of the chemical analysis of soil samples will vary between and beyond the boreholes and sampling locations and will also vary over time.

¹ Table 2 (Residential) Site condition Standards, Ministry of the Environment, Conservation and Parks' document "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (April, 2011).

² MECP, 2020. Rules for Soil Management and Excess Soil Quality Standards. Adopted by reference in O.Reg.406/19 (On-Site and Excess Soil Management) made under the Environmental Protection Act, R.S.O. 1990, c. E.19 (EPA), updated December 8, 2020.

The activities described and conclusions drawn within this report address only the geo-environmental (chemical) aspects of the subsurface conditions at the subject property. The geotechnical (physical) aspects, including, without limitation, the engineering recommendations for the design and construction of building foundations, pavements, underground servicing and the like are outside the terms of reference for this report and have not been investigated or addressed herein.

If additional information is obtained during future work at the Site, including excavations, borings, or other studies, and/or if conditions exposed during construction are different from those encountered in this assessment, WSP Golder should be requested to re-evaluate the conclusions presented in this report and provide amendments as required.

It is our understanding that the work associated with this soil sampling program was not intended to support the submission of a Record of Site Condition (RSC). If a RSC is required, additional field work and reporting may be necessary.

5.0 CLOSURE

We trust that this satisfies your current requirements. Should you have any questions regarding this letter, please do not hesitate to contact us. It is recommended that any potential receiving Site for this material be provided with this analytical data, and subsequently provides you with written approval for receipt of the material prior to it's being transported.

Regards,

Golder Associates Ltd.



Kevan Browne, B.A.
Project Manager, Contaminated Lands



Mike Cleverdon, B.Sc., P.Geo. (Limited), QP
Director, Contaminated Lands

KDB/TDM/MLC/lb

Attachments: Appendix A: Figure 1 – Site Plan
Appendix B: Laboratory Certificate of Analysis

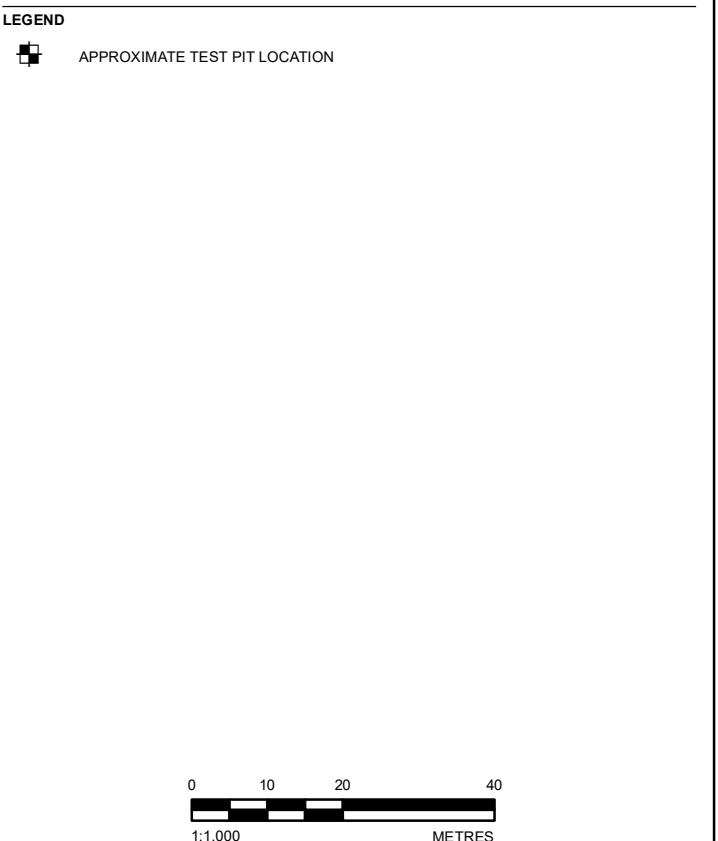
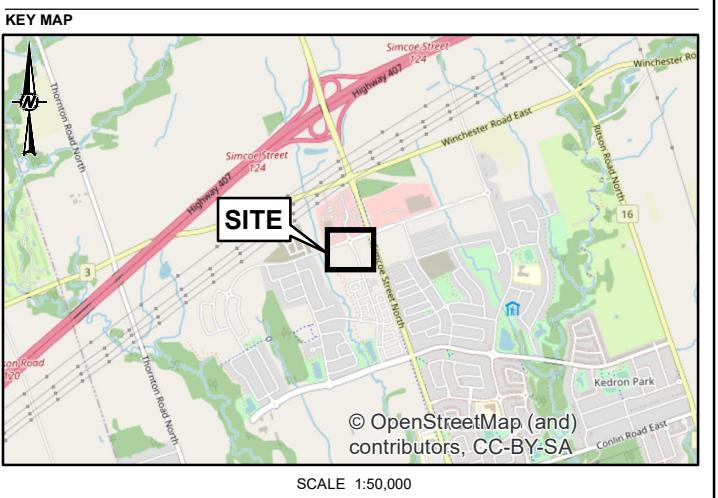
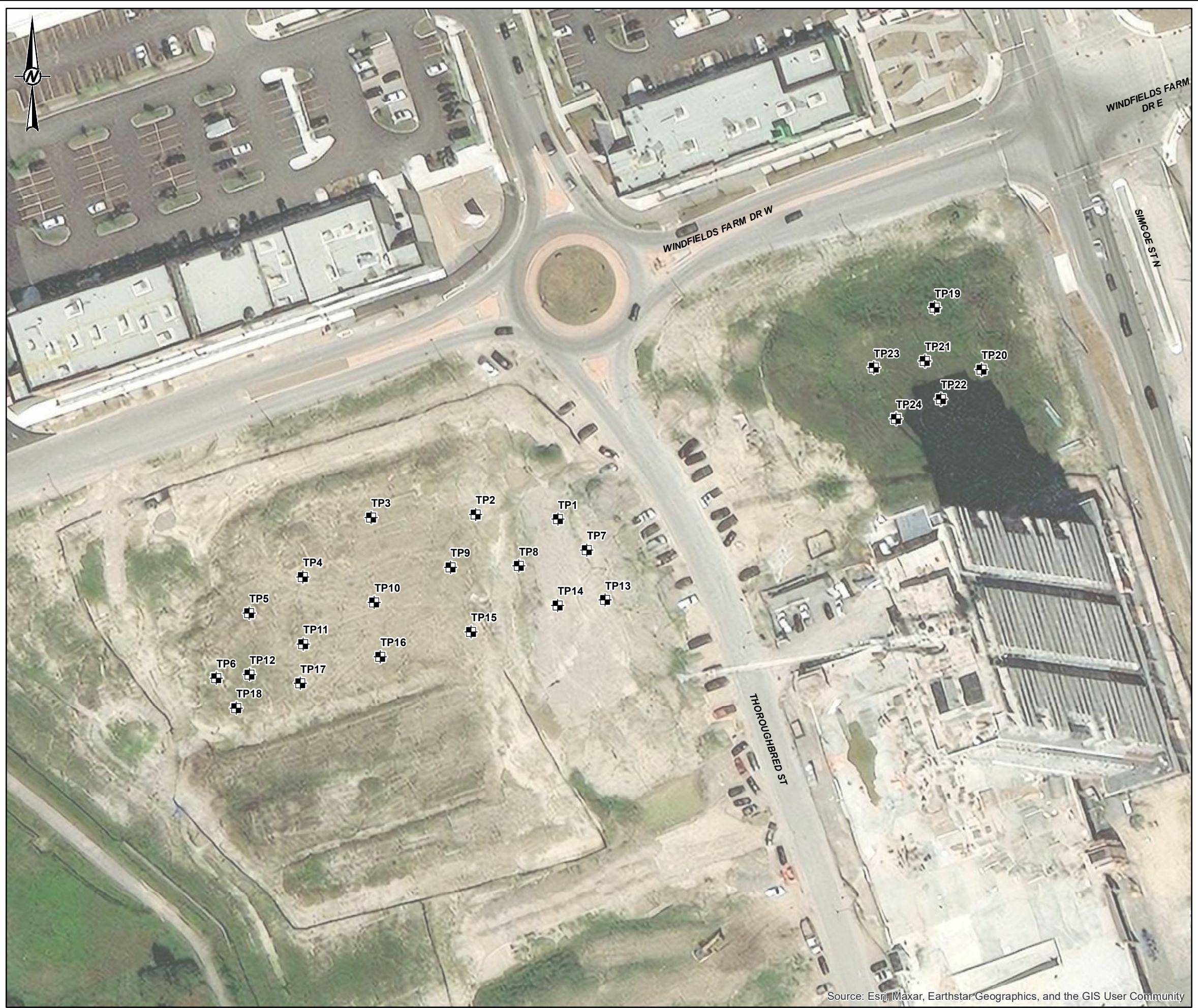
https://wsponline-my.sharepoint.com/personal/linda_akinremi_wsp_com/documents/desktop/working/20146060 r0 2022'11'18 let windfields c1c2 stockpiles final.docx

Ms. Lauren Sullivan, Assistant Project Manager, Development
Construction
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Project No. 20146060
November 18, 2022

APPENDIX A

Figure 1 - Site Plan



NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
RIOCAN REALTY INV. PARTNER 11LP

PROJECT
STOCKPILE SAMPLING - BLOCK B2 (RETAINED LANDS) -
RIOCAN WINDFIELDS DEVELOPMENT, OSHAWA, ONTARIO

TITLE
SITE PLAN

CONSULTANT	YYYY-MM-DD	2022-11-18
DESIGNED	---	
PREPARED	JEM	
REVIEWED	---	
APPROVED	---	

PROJECT No. 20146060 **CONTROL** 0001 **REV.** A **FIGURE** 1

WSP GOLDER

Ms. Lauren Sullivan, Assistant Project Manager, Development
Construction
RioCan Realty Inv. Partner 11LP

Project No. 20146060
November 18, 2022

APPENDIX B

Laboratory Certificate of Analysis



Your Project #: 20146060

Attention: Kevan Browne

Golder Associates Ltd
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Your C.O.C. #: 905425-01-01, 905425-05-01, 905425-02-01, 905425-03-01

Report Date: 2022/11/15

Report #: R7389240

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2W4314

Received: 2022/11/04, 14:44

Sample Matrix: Soil

Samples Received: 34

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	11	2022/11/08	2022/11/08	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	20	2022/11/08	2022/11/09	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	3	2022/11/09	2022/11/10	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/11/10	2022/11/10	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/11/09	2022/11/10	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	32	2022/11/09	2022/11/09	CAM SOP-00457	OMOE E3015 m
Conductivity	34	2022/11/09	2022/11/09	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	21	2022/11/10	2022/11/12	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	5	2022/11/09	2022/11/10	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	8	2022/11/09	2022/11/11	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	29	N/A	2022/11/10	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	5	N/A	2022/11/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	32	2022/11/12	2022/11/13	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	2	2022/11/13	2022/11/14	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	3	2022/11/15	2022/11/15	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	13	2022/11/08	2022/11/10	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	20	2022/11/09	2022/11/10	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/11/09	2022/11/09	CAM SOP-00447	EPA 6020B m
Total Metals in SPLP Leachate by ICPMS	5	2022/11/11	2022/11/11	CAM SOP-00447	EPA 6020B m
Moisture	34	N/A	2022/11/08	CAM SOP-00445	Carter 2nd ed 51.2 m
Modified SPLP extraction - Weight	5	N/A	2022/11/10	CAM SOP-00941	OMOECPLaSB E9003 R3
OC Pesticides (Selected) & PCB (4)	20	2022/11/11	2022/11/12	CAM SOP-00307	SW846 8081, 8082
OC Pesticides (Selected) & PCB (4)	14	2022/11/13	2022/11/14	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	19	N/A	2022/11/08	CAM SOP-00307	EPA 8081/8082 m
OC Pesticides Summed Parameters	15	N/A	2022/11/09	CAM SOP-00307	EPA 8081/8082 m
pH CaCl ₂ EXTRACT	14	2022/11/10	2022/11/10	CAM SOP-00413	EPA 9045 D m
pH CaCl ₂ EXTRACT	20	2022/11/09	2022/11/09	CAM SOP-00413	EPA 9045 D m



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Sample Matrix: Soil
Samples Received: 34

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sodium Adsorption Ratio (SAR)	34	N/A	2022/11/10	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Soils are reported on a dry weight basis unless otherwise specified.

(2) No lab extraction date is given for F1BTEx & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

(4) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane



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BUREAU VERITAS JOB #: C2W4314

Received: 2022/11/04, 14:44

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

=====
This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Total Cover Pages : 3
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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 406 EXCESS SOIL SPLP METALS (SOIL)

Bureau Veritas ID		UFH344	UFH348	UFH351	UFH377	UFH401		
Sampling Date		2022/11/02 10:40	2022/11/02 11:20	2022/11/02 12:45	2022/11/02 01:40	2022/11/03 11:50		
COC Number		905425-01-01	905425-01-01	905425-01-01	905425-05-01	905425-02-01		
	UNITS	TP19	TP23	TP1-1	TP6	TP15-2	RDL	QC Batch
Metals								
Leachable (SPLP) Antimony (Sb)	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	8340121
Leachable (SPLP) Arsenic (As)	ug/L	<1	<1	<1	<1	<1	1	8340121
Leachable (SPLP) Barium (Ba)	ug/L	<5	<5	<5	<5	<5	5	8340121
Leachable (SPLP) Beryllium (Be)	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	8340121
Leachable (SPLP) Boron (B)	ug/L	<10	<10	16	<10	12	10	8340121
Leachable (SPLP) Cadmium (Cd)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	8340121
Leachable (SPLP) Chromium (Cr)	ug/L	<5	<5	<5	<5	<5	5	8340121
Leachable (SPLP) Cobalt (Co)	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	8340121
Leachable (SPLP) Copper (Cu)	ug/L	1	2	<1	<1	<1	1	8340121
Leachable (SPLP) Lead (Pb)	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	8340121
Leachable (SPLP) Molybdenum (Mo)	ug/L	<1	<1	<1	<1	<1	1	8340121
Leachable (SPLP) Nickel (Ni)	ug/L	<1	<1	1	14	<1	1	8340121
Leachable (SPLP) Selenium (Se)	ug/L	<2	<2	<2	<2	<2	2	8340121
Leachable (SPLP) Silver (Ag)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	8340121
Leachable (SPLP) Thallium (Tl)	ug/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	8340121
Leachable (SPLP) Uranium (U)	ug/L	0.2	0.2	<0.1	<0.1	<0.1	0.1	8340121
Leachable (SPLP) Vanadium (V)	ug/L	2	2	8	2	10	1	8340121
Leachable (SPLP) Zinc (Zn)	ug/L	<5	<5	<5	<5	<5	5	8340121
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 406 EXCESS SOIL SPLP PREP (SOIL)

Bureau Veritas ID		UFH344	UFH348	UFH351	UFH377	UFH401	
Sampling Date		2022/11/02 10:40	2022/11/02 11:20	2022/11/02 12:45	2022/11/02 01:40	2022/11/03 11:50	
COC Number		905425-01-01	905425-01-01	905425-01-01	905425-05-01	905425-02-01	
	UNITS	TP19	TP23	TP1-1	TP6	TP15-2	QC Batch
Inorganics							
Dry Weight	g	100	100	100	100	100	8335705
QC Batch = Quality Control Batch							

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH344			UFH344			UFH345		
Sampling Date		2022/11/02 10:40			2022/11/02 10:40			2022/11/02 10:50		
COC Number		905425-01-01			905425-01-01			905425-01-01		
	UNITS	TP19	RDL	QC Batch	TP19 Lab-Dup	RDL	QC Batch	TP20	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.41		8330254				1.1		8330254
-------------------------	-----	------	--	---------	--	--	--	-----	--	---------

Inorganics

Conductivity	mS/cm	0.23	0.002	8334734	0.23	0.002	8334734	0.23	0.002	8334734
Available (CaCl ₂) pH	pH	7.47		8337884				7.30		8335579
WAD Cyanide (Free)	ug/g	<0.01	0.01	8335730				<0.01	0.01	8335677
Chromium (VI)	ug/g	<0.18	0.18	8335679				<0.18	0.18	8338659

Metals

Hot Water Ext. Boron (B)	ug/g	0.32	0.050	8333736				0.34	0.050	8333736
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8333836				<0.20	0.20	8333836
Acid Extractable Arsenic (As)	ug/g	1.9	1.0	8333836				1.4	1.0	8333836
Acid Extractable Barium (Ba)	ug/g	48	0.50	8333836				47	0.50	8333836
Acid Extractable Beryllium (Be)	ug/g	0.39	0.20	8333836				0.37	0.20	8333836
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8333836				<5.0	5.0	8333836
Acid Extractable Cadmium (Cd)	ug/g	0.16	0.10	8333836				0.18	0.10	8333836
Acid Extractable Chromium (Cr)	ug/g	13	1.0	8333836				13	1.0	8333836
Acid Extractable Cobalt (Co)	ug/g	4.7	0.10	8333836				4.5	0.10	8333836
Acid Extractable Copper (Cu)	ug/g	7.4	0.50	8333836				7.2	0.50	8333836
Acid Extractable Lead (Pb)	ug/g	8.5	1.0	8333836				8.7	1.0	8333836
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8333836				<0.50	0.50	8333836
Acid Extractable Nickel (Ni)	ug/g	8.8	0.50	8333836				8.5	0.50	8333836
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8333836				<0.50	0.50	8333836
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8333836				<0.20	0.20	8333836
Acid Extractable Thallium (Tl)	ug/g	0.088	0.050	8333836				0.084	0.050	8333836
Acid Extractable Uranium (U)	ug/g	0.52	0.050	8333836				0.48	0.050	8333836
Acid Extractable Vanadium (V)	ug/g	24	5.0	8333836				23	5.0	8333836
Acid Extractable Zinc (Zn)	ug/g	37	5.0	8333836				36	5.0	8333836
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8333836				<0.050	0.050	8333836

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH346			UFH346			UFH347		
Sampling Date		2022/11/02 11:00			2022/11/02 11:00			2022/11/02 11:10		
COC Number		905425-01-01			905425-01-01			905425-01-01		
	UNITS	TP21	RDL	QC Batch	TP21 Lab-Dup	RDL	QC Batch	TP22	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.34		8330254				0.23		8330254
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Inorganics

Conductivity	mS/cm	0.24	0.002	8334734				0.19	0.002	8334734
Available (CaCl ₂) pH	pH	7.53		8337884				7.52		8335579
WAD Cyanide (Free)	ug/g	<0.01	0.01	8335677				<0.01	0.01	8335730
Chromium (VI)	ug/g	<0.18	0.18	8338662				<0.18	0.18	8338659

Metals

Hot Water Ext. Boron (B)	ug/g	0.23	0.050	8333736	0.23	0.050	8333736	0.41	0.050	8333736
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8333836				<0.20	0.20	8333836
Acid Extractable Arsenic (As)	ug/g	1.7	1.0	8333836				2.7	1.0	8333836
Acid Extractable Barium (Ba)	ug/g	39	0.50	8333836				42	0.50	8333836
Acid Extractable Beryllium (Be)	ug/g	0.31	0.20	8333836				0.35	0.20	8333836
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8333836				<5.0	5.0	8333836
Acid Extractable Cadmium (Cd)	ug/g	0.13	0.10	8333836				0.13	0.10	8333836
Acid Extractable Chromium (Cr)	ug/g	12	1.0	8333836				12	1.0	8333836
Acid Extractable Cobalt (Co)	ug/g	4.1	0.10	8333836				3.9	0.10	8333836
Acid Extractable Copper (Cu)	ug/g	8.7	0.50	8333836				8.1	0.50	8333836
Acid Extractable Lead (Pb)	ug/g	7.5	1.0	8333836				18	1.0	8333836
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8333836				<0.50	0.50	8333836
Acid Extractable Nickel (Ni)	ug/g	8.0	0.50	8333836				9.0	0.50	8333836
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8333836				<0.50	0.50	8333836
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8333836				<0.20	0.20	8333836
Acid Extractable Thallium (Tl)	ug/g	0.081	0.050	8333836				0.071	0.050	8333836
Acid Extractable Uranium (U)	ug/g	0.53	0.050	8333836				0.41	0.050	8333836
Acid Extractable Vanadium (V)	ug/g	22	5.0	8333836				21	5.0	8333836
Acid Extractable Zinc (Zn)	ug/g	30	5.0	8333836				39	5.0	8333836
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8333836				<0.050	0.050	8333836

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH348		UFH349	UFH350		UFH351		
Sampling Date		2022/11/02 11:20		2022/11/02 11:30	2022/11/02 10:55		2022/11/02 12:45		
COC Number		905425-01-01		905425-01-01	905425-01-01		905425-01-01		
	UNITS	TP23	QC Batch	TP24	DUP1	QC Batch	TP1-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.22 (1)	8330254	0.23 (1)	1.2	8330254	0.50		8330254
Inorganics									
Conductivity	mS/cm	0.20	8334734	0.20	0.27	8334734	0.32	0.002	8334734
Available (CaCl ₂) pH	pH	7.44	8337884	7.46	7.47	8335579	9.97		8337884
WAD Cyanide (Free)	ug/g	<0.01	8335677	<0.01	<0.01	8335730	<0.01	0.01	8335677
Chromium (VI)	ug/g	<0.18	8335679	<0.18	<0.18	8338659	<0.18	0.18	8335679
Metals									
Hot Water Ext. Boron (B)	ug/g	0.37	8333736	0.52	0.42	8333736	0.25	0.050	8333736
Acid Extractable Antimony (Sb)	ug/g	<0.20	8333836	<0.20	<0.20	8333836	<0.20	0.20	8333836
Acid Extractable Arsenic (As)	ug/g	2.3	8333836	2.9	1.7	8333836	1.1	1.0	8333836
Acid Extractable Barium (Ba)	ug/g	47	8333836	43	50	8333836	35	0.50	8333836
Acid Extractable Beryllium (Be)	ug/g	0.35	8333836	0.36	0.41	8333836	0.24	0.20	8333836
Acid Extractable Boron (B)	ug/g	<5.0	8333836	<5.0	<5.0	8333836	<5.0	5.0	8333836
Acid Extractable Cadmium (Cd)	ug/g	0.14	8333836	0.16	0.17	8333836	<0.10	0.10	8333836
Acid Extractable Chromium (Cr)	ug/g	12	8333836	12	14	8333836	9.8	1.0	8333836
Acid Extractable Cobalt (Co)	ug/g	4.1	8333836	4.0	4.6	8333836	3.2	0.10	8333836
Acid Extractable Copper (Cu)	ug/g	8.3	8333836	7.8	7.7	8333836	6.5	0.50	8333836
Acid Extractable Lead (Pb)	ug/g	18	8333836	28	9.6	8333836	4.0	1.0	8333836
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	8333836	<0.50	<0.50	8333836	<0.50	0.50	8333836
Acid Extractable Nickel (Ni)	ug/g	8.5	8333836	8.1	8.7	8333836	7.1	0.50	8333836
Acid Extractable Selenium (Se)	ug/g	<0.50	8333836	<0.50	<0.50	8333836	<0.50	0.50	8333836
Acid Extractable Silver (Ag)	ug/g	<0.20	8333836	<0.20	<0.20	8333836	<0.20	0.20	8333836
Acid Extractable Thallium (Tl)	ug/g	0.098	8333836	0.074	0.10	8333836	0.059	0.050	8333836
Acid Extractable Uranium (U)	ug/g	0.43	8333836	0.41	0.53	8333836	0.43	0.050	8333836
Acid Extractable Vanadium (V)	ug/g	22	8333836	22	25	8333836	18	5.0	8333836
Acid Extractable Zinc (Zn)	ug/g	38	8333836	41	40	8333836	23	5.0	8333836
Acid Extractable Mercury (Hg)	ug/g	<0.050	8333836	<0.050	<0.050	8333836	<0.050	0.050	8333836
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.									

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH351			UFH352		UFH353		
Sampling Date		2022/11/02 12:45			2022/11/02 12:45		2022/11/02 12:55		
COC Number		905425-01-01			905425-01-01		905425-01-01		
	UNITS	TP1-1 Lab-Dup	RDL	QC Batch	TP1-2	QC Batch	TP2	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A				0.60	8330254	0.57		8330254
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Inorganics

Conductivity	mS/cm				0.30	8334734	0.29	0.002	8334750
Available (CaCl ₂) pH	pH				10.4	8337884	9.72		8335579
WAD Cyanide (Free)	ug/g				<0.01	8335677	<0.01	0.01	8335677
Chromium (VI)	ug/g				<0.18	8335679	<0.18	0.18	8338659

Metals

Hot Water Ext. Boron (B)	ug/g				0.19	8333736	0.17	0.050	8335082
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8333836	<0.20	8333836	<0.20	0.20	8334823
Acid Extractable Arsenic (As)	ug/g	1.2	1.0	8333836	1.0	8333836	1.0	1.0	8334823
Acid Extractable Barium (Ba)	ug/g	35	0.50	8333836	38	8333836	37	0.50	8334823
Acid Extractable Beryllium (Be)	ug/g	0.25	0.20	8333836	0.24	8333836	0.24	0.20	8334823
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8333836	<5.0	8333836	<5.0	5.0	8334823
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	8333836	<0.10	8333836	<0.10	0.10	8334823
Acid Extractable Chromium (Cr)	ug/g	9.9	1.0	8333836	9.7	8333836	9.9	1.0	8334823
Acid Extractable Cobalt (Co)	ug/g	3.2	0.10	8333836	3.3	8333836	3.4	0.10	8334823
Acid Extractable Copper (Cu)	ug/g	6.5	0.50	8333836	6.8	8333836	6.9	0.50	8334823
Acid Extractable Lead (Pb)	ug/g	4.2	1.0	8333836	3.5	8333836	3.9	1.0	8334823
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8333836	<0.50	8333836	<0.50	0.50	8334823
Acid Extractable Nickel (Ni)	ug/g	7.0	0.50	8333836	6.2	8333836	7.1	0.50	8334823
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8333836	<0.50	8333836	<0.50	0.50	8334823
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8333836	<0.20	8333836	<0.20	0.20	8334823
Acid Extractable Thallium (Tl)	ug/g	0.064	0.050	8333836	0.066	8333836	0.065	0.050	8334823
Acid Extractable Uranium (U)	ug/g	0.49	0.050	8333836	0.44	8333836	0.51	0.050	8334823
Acid Extractable Vanadium (V)	ug/g	18	5.0	8333836	19	8333836	19	5.0	8334823
Acid Extractable Zinc (Zn)	ug/g	22	5.0	8333836	21	8333836	22	5.0	8334823
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8333836	<0.050	8333836	<0.050	0.050	8334823

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH373	UFH374	UFH375		UFH376		
Sampling Date		2022/11/02 01:05	2022/11/02 01:15	2022/11/02 01:15		2022/11/02 01:30		
COC Number		905425-05-01	905425-05-01	905425-05-01		905425-05-01		
	UNITS	TP3	TP4-1	TP4-2	QC Batch	TP5	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.25 (1)	0.28 (1)	0.26 (1)	8330254	0.26 (1)		8330687
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Inorganics

Conductivity	mS/cm	0.16	0.13	0.15	8334726	0.15	0.002	8334750
Available (CaCl ₂) pH	pH	7.59	7.77	7.66	8335579	7.84		8335579
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	8335677	<0.01	0.01	8335677
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	8338659	<0.18	0.18	8338659

Metals

Hot Water Ext. Boron (B)	ug/g	0.085	0.052	<0.050	8333754	<0.050	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Arsenic (As)	ug/g	1.5	1.4	1.6	8334823	1.3	1.0	8334823
Acid Extractable Barium (Ba)	ug/g	36	35	40	8334823	34	0.50	8334823
Acid Extractable Beryllium (Be)	ug/g	0.30	0.27	0.29	8334823	0.24	0.20	8334823
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	8334823	<5.0	5.0	8334823
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	8334823	<0.10	0.10	8334823
Acid Extractable Chromium (Cr)	ug/g	11	11	11	8334823	9.4	1.0	8334823
Acid Extractable Cobalt (Co)	ug/g	4.0	4.1	4.2	8334823	3.6	0.10	8334823
Acid Extractable Copper (Cu)	ug/g	7.7	7.8	8.2	8334823	6.9	0.50	8334823
Acid Extractable Lead (Pb)	ug/g	4.7	4.6	5.0	8334823	3.4	1.0	8334823
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Nickel (Ni)	ug/g	8.5	8.7	9.0	8334823	6.8	0.50	8334823
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Thallium (Tl)	ug/g	0.096	0.10	0.10	8334823	0.066	0.050	8334823
Acid Extractable Uranium (U)	ug/g	0.46	0.47	0.51	8334823	0.43	0.050	8334823
Acid Extractable Vanadium (V)	ug/g	20	21	21	8334823	20	5.0	8334823
Acid Extractable Zinc (Zn)	ug/g	23	23	26	8334823	20	5.0	8334823
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	8334823	<0.050	0.050	8334823

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH377		UFH378		UFH379		
Sampling Date		2022/11/02 01:40		2022/11/02 01:55		2022/11/02 02:15		
COC Number		905425-05-01		905425-05-01		905425-05-01		
	UNITS	TP6	QC Batch	TP7	QC Batch	TP8-1	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.41	8330688	0.23 (1)	8330687	0.53		8330688
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Inorganics

Conductivity	mS/cm	0.18	8334734	0.20	8334734	0.28	0.002	8334726
Available (CaCl ₂) pH	pH	7.90	8335579	7.87	8335579	9.43		8335579
WAD Cyanide (Free)	ug/g	<0.01	8335677	<0.01	8335730	<0.01	0.01	8335677
Chromium (VI)	ug/g	<0.18	8338659	<0.18	8338659	<0.18	0.18	8338659

Metals

Hot Water Ext. Boron (B)	ug/g	0.091	8333736	<0.050	8333736	0.16	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	8333836	<0.20	8333836	<0.20	0.20	8334823
Acid Extractable Arsenic (As)	ug/g	1.1	8333836	<1.0	8333836	<1.0	1.0	8334823
Acid Extractable Barium (Ba)	ug/g	33	8333836	40	8333836	36	0.50	8334823
Acid Extractable Beryllium (Be)	ug/g	0.21	8333836	0.21	8333836	0.24	0.20	8334823
Acid Extractable Boron (B)	ug/g	<5.0	8333836	<5.0	8333836	<5.0	5.0	8334823
Acid Extractable Cadmium (Cd)	ug/g	<0.10	8333836	<0.10	8333836	<0.10	0.10	8334823
Acid Extractable Chromium (Cr)	ug/g	8.4	8333836	9.3	8333836	10	1.0	8334823
Acid Extractable Cobalt (Co)	ug/g	3.4	8333836	3.6	8333836	3.4	0.10	8334823
Acid Extractable Copper (Cu)	ug/g	6.7	8333836	6.9	8333836	7.2	0.50	8334823
Acid Extractable Lead (Pb)	ug/g	2.8	8333836	2.8	8333836	3.7	1.0	8334823
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	8333836	<0.50	8333836	<0.50	0.50	8334823
Acid Extractable Nickel (Ni)	ug/g	5.8	8333836	6.6	8333836	6.2	0.50	8334823
Acid Extractable Selenium (Se)	ug/g	<0.50	8333836	<0.50	8333836	<0.50	0.50	8334823
Acid Extractable Silver (Ag)	ug/g	<0.20	8333836	<0.20	8333836	<0.20	0.20	8334823
Acid Extractable Thallium (Tl)	ug/g	0.066	8333836	0.062	8333836	0.078	0.050	8334823
Acid Extractable Uranium (U)	ug/g	0.42	8333836	0.44	8333836	0.44	0.050	8334823
Acid Extractable Vanadium (V)	ug/g	18	8333836	18	8333836	19	5.0	8334823
Acid Extractable Zinc (Zn)	ug/g	19	8333836	20	8333836	34	5.0	8334823
Acid Extractable Mercury (Hg)	ug/g	<0.050	8333836	<0.050	8333836	<0.050	0.050	8334823

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd

Client Project #: 20146060

Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH380		UFH381		UFH382		
Sampling Date		2022/11/02 02:15		2022/11/02 01:00		2022/11/03 09:40		
COC Number		905425-05-01		905425-05-01		905425-05-01		
	UNITS	TP8-2	QC Batch	DUP2	QC Batch	TP9	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.66	8330688	0.52	8330688	0.54		8330688
Inorganics								
Conductivity	mS/cm	0.28	8334726	0.27	8334726	0.23	0.002	8334726
Available (CaCl ₂) pH	pH	9.93	8337869	9.56	8335579	9.76		8337869
WAD Cyanide (Free)	ug/g	<0.01	8335730	<0.01	8335677	<0.01	0.01	8335730
Chromium (VI)	ug/g	<0.18	8336169	<0.18	8338659	<0.18	0.18	8336169
Metals								
Hot Water Ext. Boron (B)	ug/g	0.18	8333754	0.17	8333754	0.16	0.050	8335082
Acid Extractable Antimony (Sb)	ug/g	<0.20	8334823	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Arsenic (As)	ug/g	1.1	8334823	1.1	8334823	1.1	1.0	8334823
Acid Extractable Barium (Ba)	ug/g	38	8334823	38	8334823	36	0.50	8334823
Acid Extractable Beryllium (Be)	ug/g	0.25	8334823	0.25	8334823	0.27	0.20	8334823
Acid Extractable Boron (B)	ug/g	<5.0	8334823	<5.0	8334823	<5.0	5.0	8334823
Acid Extractable Cadmium (Cd)	ug/g	<0.10	8334823	<0.10	8334823	<0.10	0.10	8334823
Acid Extractable Chromium (Cr)	ug/g	10	8334823	10	8334823	9.9	1.0	8334823
Acid Extractable Cobalt (Co)	ug/g	3.4	8334823	3.4	8334823	3.3	0.10	8334823
Acid Extractable Copper (Cu)	ug/g	7.0	8334823	6.9	8334823	6.5	0.50	8334823
Acid Extractable Lead (Pb)	ug/g	4.1	8334823	3.8	8334823	3.7	1.0	8334823
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	8334823	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Nickel (Ni)	ug/g	7.1	8334823	6.9	8334823	6.9	0.50	8334823
Acid Extractable Selenium (Se)	ug/g	<0.50	8334823	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Silver (Ag)	ug/g	<0.20	8334823	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Thallium (Tl)	ug/g	0.059	8334823	0.063	8334823	0.063	0.050	8334823
Acid Extractable Uranium (U)	ug/g	0.48	8334823	0.48	8334823	0.47	0.050	8334823
Acid Extractable Vanadium (V)	ug/g	19	8334823	19	8334823	19	5.0	8334823
Acid Extractable Zinc (Zn)	ug/g	21	8334823	24	8334823	24	5.0	8334823
Acid Extractable Mercury (Hg)	ug/g	<0.050	8334823	<0.050	8334823	<0.050	0.050	8334823
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH393		UFH394			UFH394		
Sampling Date		2022/11/03 09:55		2022/11/03 10:00			2022/11/03 10:00		
COC Number		905425-02-01		905425-02-01			905425-02-01		
	UNITS	TP10-1	QC Batch	TP10-2	RDL	QC Batch	TP10-2 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.26 (1)	8330688	0.30 (1)		8330688			
Inorganics									
Conductivity	mS/cm	0.15	8334726	0.12	0.002	8334726			
Available (CaCl ₂) pH	pH	7.67	8337869	7.82		8335579			
WAD Cyanide (Free)	ug/g	<0.01	8335730	<0.01	0.01	8335677			
Chromium (VI)	ug/g	<0.18	8336169	<0.18	0.18	8338659			
Metals									
Hot Water Ext. Boron (B)	ug/g	0.078	8333754	<0.050	0.050	8333754	<0.050	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	8334823	<0.20	0.20	8334823			
Acid Extractable Arsenic (As)	ug/g	1.5	8334823	<1.0	1.0	8334823			
Acid Extractable Barium (Ba)	ug/g	33	8334823	29	0.50	8334823			
Acid Extractable Beryllium (Be)	ug/g	0.28	8334823	0.21	0.20	8334823			
Acid Extractable Boron (B)	ug/g	<5.0	8334823	<5.0	5.0	8334823			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	8334823	<0.10	0.10	8334823			
Acid Extractable Chromium (Cr)	ug/g	10	8334823	9.0	1.0	8334823			
Acid Extractable Cobalt (Co)	ug/g	3.7	8334823	3.6	0.10	8334823			
Acid Extractable Copper (Cu)	ug/g	7.0	8334823	7.7	0.50	8334823			
Acid Extractable Lead (Pb)	ug/g	4.7	8334823	3.1	1.0	8334823			
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	8334823	<0.50	0.50	8334823			
Acid Extractable Nickel (Ni)	ug/g	8.0	8334823	6.3	0.50	8334823			
Acid Extractable Selenium (Se)	ug/g	<0.50	8334823	<0.50	0.50	8334823			
Acid Extractable Silver (Ag)	ug/g	<0.20	8334823	<0.20	0.20	8334823			
Acid Extractable Thallium (Tl)	ug/g	0.078	8334823	0.064	0.050	8334823			
Acid Extractable Uranium (U)	ug/g	0.46	8334823	0.41	0.050	8334823			
Acid Extractable Vanadium (V)	ug/g	19	8334823	19	5.0	8334823			
Acid Extractable Zinc (Zn)	ug/g	22	8334823	21	5.0	8334823			
Acid Extractable Mercury (Hg)	ug/g	<0.050	8334823	<0.050	0.050	8334823			
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.									

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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH395		UFH395		UFH396		
Sampling Date		2022/11/03 10:15		2022/11/03 10:15		2022/11/03 10:30		
COC Number		905425-02-01		905425-02-01		905425-02-01		
	UNITS	TP11	RDL	QC Batch	TP11 Lab-Dup	RDL	QC Batch	TP12
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.23 (1)		8330688			0.26 (1)	8330688
Inorganics								
Conductivity	mS/cm	0.18	0.002	8334726			0.16	0.002
Available (CaCl ₂) pH	pH	7.60		8337869			7.63	
WAD Cyanide (Free)	ug/g	<0.01	0.01	8335730			<0.01	0.01
Chromium (VI)	ug/g	<0.18	0.18	8336169	<0.18	0.18	8336169	<0.18
Metals								
Hot Water Ext. Boron (B)	ug/g	0.078	0.050	8333754			0.052	0.050
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8333836			<0.20	0.20
Acid Extractable Arsenic (As)	ug/g	1.2	1.0	8333836			1.6	1.0
Acid Extractable Barium (Ba)	ug/g	34	0.50	8333836			39	0.50
Acid Extractable Beryllium (Be)	ug/g	0.31	0.20	8333836			0.29	0.20
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8333836			<5.0	5.0
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.10	8333836			<0.10	0.10
Acid Extractable Chromium (Cr)	ug/g	11	1.0	8333836			11	1.0
Acid Extractable Cobalt (Co)	ug/g	3.8	0.10	8333836			4.0	0.10
Acid Extractable Copper (Cu)	ug/g	7.6	0.50	8333836			8.2	0.50
Acid Extractable Lead (Pb)	ug/g	4.9	1.0	8333836			5.0	1.0
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8333836			<0.50	0.50
Acid Extractable Nickel (Ni)	ug/g	8.2	0.50	8333836			8.8	0.50
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8333836			<0.50	0.50
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8333836			<0.20	0.20
Acid Extractable Thallium (Tl)	ug/g	0.082	0.050	8333836			0.10	0.050
Acid Extractable Uranium (U)	ug/g	0.56	0.050	8333836			0.46	0.050
Acid Extractable Vanadium (V)	ug/g	20	5.0	8333836			21	5.0
Acid Extractable Zinc (Zn)	ug/g	23	5.0	8333836			24	5.0
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8333836			<0.050	0.050
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.								



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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH396			UFH397		UFH398		
Sampling Date		2022/11/03 10:30		2022/11/03 12:30		2022/11/03 12:15			
COC Number		905425-02-01		905425-02-01		905425-02-01			
	UNITS	TP12 Lab-Dup	RDL	QC Batch	TP13	QC Batch	TP14-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A				0.20 (1)	8330688	0.48		8330688
Inorganics									
Conductivity	mS/cm				0.25	8334726	0.17	0.002	8334726
Available (CaCl ₂) pH	pH				7.86	8337869	10.0		8335579
WAD Cyanide (Free)	ug/g	<0.01	0.01	8337736	<0.01	8335761	<0.01	0.01	8335677
Chromium (VI)	ug/g				<0.18	8336169	<0.18	0.18	8338659
Metals									
Hot Water Ext. Boron (B)	ug/g				<0.050	8333754	0.15	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8334823	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Arsenic (As)	ug/g	1.4	1.0	8334823	<1.0	8334823	<1.0	1.0	8334823
Acid Extractable Barium (Ba)	ug/g	39	0.50	8334823	34	8334823	19	0.50	8334823
Acid Extractable Beryllium (Be)	ug/g	0.33	0.20	8334823	0.20	8334823	<0.20	0.20	8334823
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8334823	<5.0	8334823	<5.0	5.0	8334823
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	8334823	<0.10	8334823	<0.10	0.10	8334823
Acid Extractable Chromium (Cr)	ug/g	11	1.0	8334823	8.5	8334823	6.6	1.0	8334823
Acid Extractable Cobalt (Co)	ug/g	4.3	0.10	8334823	3.2	8334823	2.2	0.10	8334823
Acid Extractable Copper (Cu)	ug/g	8.3	0.50	8334823	6.3	8334823	4.5	0.50	8334823
Acid Extractable Lead (Pb)	ug/g	5.0	1.0	8334823	2.6	8334823	2.8	1.0	8334823
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8334823	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Nickel (Ni)	ug/g	9.0	0.50	8334823	6.1	8334823	4.3	0.50	8334823
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8334823	<0.50	8334823	<0.50	0.50	8334823
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8334823	<0.20	8334823	<0.20	0.20	8334823
Acid Extractable Thallium (Tl)	ug/g	0.11	0.050	8334823	0.054	8334823	<0.050	0.050	8334823
Acid Extractable Uranium (U)	ug/g	0.51	0.050	8334823	0.44	8334823	0.39	0.050	8334823
Acid Extractable Vanadium (V)	ug/g	21	5.0	8334823	18	8334823	15	5.0	8334823
Acid Extractable Zinc (Zn)	ug/g	25	5.0	8334823	18	8334823	14	5.0	8334823
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8334823	<0.050	8334823	<0.050	0.050	8334823
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.									

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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH398			UFH399			UFH399		
Sampling Date		2022/11/03 12:15			2022/11/03 12:20			2022/11/03 12:20		
COC Number		905425-02-01			905425-02-01			905425-02-01		
	UNITS	TP14-1 Lab-Dup	RDL	QC Batch	TP14-2	RDL	QC Batch	TP14-2 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A				0.23 (1)		8330688			
Inorganics										
Conductivity	mS/cm				0.21	0.002	8334750	0.22	0.002	8334750
Available (CaCl ₂) pH	pH	9.80		8335579	9.37		8335579			
WAD Cyanide (Free)	ug/g	<0.01	0.01	8335677	<0.01	0.01	8335677			
Chromium (VI)	ug/g	<0.18	0.18	8338659	<0.18	0.18	8338659			
Metals										
Hot Water Ext. Boron (B)	ug/g				<0.050	0.050	8333754			
Acid Extractable Antimony (Sb)	ug/g				<0.20	0.20	8334823			
Acid Extractable Arsenic (As)	ug/g				<1.0	1.0	8334823			
Acid Extractable Barium (Ba)	ug/g				36	0.50	8334823			
Acid Extractable Beryllium (Be)	ug/g				0.21	0.20	8334823			
Acid Extractable Boron (B)	ug/g				<5.0	5.0	8334823			
Acid Extractable Cadmium (Cd)	ug/g				<0.10	0.10	8334823			
Acid Extractable Chromium (Cr)	ug/g				8.8	1.0	8334823			
Acid Extractable Cobalt (Co)	ug/g				3.1	0.10	8334823			
Acid Extractable Copper (Cu)	ug/g				6.4	0.50	8334823			
Acid Extractable Lead (Pb)	ug/g				2.7	1.0	8334823			
Acid Extractable Molybdenum (Mo)	ug/g				<0.50	0.50	8334823			
Acid Extractable Nickel (Ni)	ug/g				5.7	0.50	8334823			
Acid Extractable Selenium (Se)	ug/g				<0.50	0.50	8334823			
Acid Extractable Silver (Ag)	ug/g				<0.20	0.20	8334823			
Acid Extractable Thallium (Tl)	ug/g				<0.050	0.050	8334823			
Acid Extractable Uranium (U)	ug/g				0.49	0.050	8334823			
Acid Extractable Vanadium (V)	ug/g				18	5.0	8334823			
Acid Extractable Zinc (Zn)	ug/g				18	5.0	8334823			
Acid Extractable Mercury (Hg)	ug/g				<0.050	0.050	8334823			
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.										

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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH400		UFH401		UFH402		
Sampling Date		2022/11/03 11:45		2022/11/03 11:50		2022/11/03 11:15		
COC Number		905425-02-01		905425-02-01		905425-02-01		
	UNITS	TP15-1	QC Batch	TP15-2	QC Batch	TP16-1	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.75	8330688	0.70	8330688	0.27 (1)		8330688
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Inorganics

Conductivity	mS/cm	0.28	8334726	0.28	8334726	0.14	0.002	8334726
Available (CaCl ₂) pH	pH	10.2	8337869	9.60	8335579	7.66		8337869
WAD Cyanide (Free)	ug/g	<0.01	8335730	<0.01	8335677	<0.01	0.01	8335730
Chromium (VI)	ug/g	<0.18	8336169	<0.18	8338659	<0.18	0.18	8336169

Metals

Hot Water Ext. Boron (B)	ug/g	0.15	8333754	0.19	8335082	<0.050	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	8334823	<0.20	8334823	<0.20	0.20	8333836
Acid Extractable Arsenic (As)	ug/g	1.1	8334823	1.2	8334823	1.3	1.0	8333836
Acid Extractable Barium (Ba)	ug/g	39	8334823	39	8334823	35	0.50	8333836
Acid Extractable Beryllium (Be)	ug/g	0.25	8334823	0.26	8334823	0.29	0.20	8333836
Acid Extractable Boron (B)	ug/g	<5.0	8334823	5.2	8334823	<5.0	5.0	8333836
Acid Extractable Cadmium (Cd)	ug/g	<0.10	8334823	<0.10	8334823	<0.10	0.10	8333836
Acid Extractable Chromium (Cr)	ug/g	10	8334823	10	8334823	11	1.0	8333836
Acid Extractable Cobalt (Co)	ug/g	3.4	8334823	3.5	8334823	4.4	0.10	8333836
Acid Extractable Copper (Cu)	ug/g	6.9	8334823	6.8	8334823	8.3	0.50	8333836
Acid Extractable Lead (Pb)	ug/g	3.9	8334823	4.4	8334823	4.1	1.0	8333836
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	8334823	<0.50	8334823	<0.50	0.50	8333836
Acid Extractable Nickel (Ni)	ug/g	7.5	8334823	7.2	8334823	8.3	0.50	8333836
Acid Extractable Selenium (Se)	ug/g	<0.50	8334823	<0.50	8334823	<0.50	0.50	8333836
Acid Extractable Silver (Ag)	ug/g	<0.20	8334823	<0.20	8334823	<0.20	0.20	8333836
Acid Extractable Thallium (Tl)	ug/g	0.074	8334823	0.072	8334823	0.087	0.050	8333836
Acid Extractable Uranium (U)	ug/g	0.46	8334823	0.46	8334823	0.52	0.050	8333836
Acid Extractable Vanadium (V)	ug/g	19	8334823	19	8334823	23	5.0	8333836
Acid Extractable Zinc (Zn)	ug/g	21	8334823	23	8334823	24	5.0	8333836
Acid Extractable Mercury (Hg)	ug/g	<0.050	8334823	<0.050	8334823	<0.050	0.050	8333836

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 METALS & INORGANICS PKG (SOIL)**

Bureau Veritas ID		UFH404	UFH405	UFH406			UFH406		
Sampling Date		2022/11/03 11:20	2022/11/03 11:00	2022/11/03 10:45			2022/11/03 10:45		
COC Number		905425-03-01	905425-03-01	905425-03-01			905425-03-01		
	UNITS	TP16-2	TP17	TP18	RDL	QC Batch	TP18 Lab-Dup	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	0.28 (1)	0.28	0.27 (1)		8330688		
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Inorganics

Conductivity	mS/cm	0.13	0.18	0.12	0.002	8334726	0.12	0.002	8334726
Available (CaCl ₂) pH	pH	7.88	7.71	7.70		8335579			
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	0.01	8335677			
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	0.18	8338659			

Metals

Hot Water Ext. Boron (B)	ug/g	<0.050	0.073	0.059	0.050	8333754			
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	8334823			
Acid Extractable Arsenic (As)	ug/g	<1.0	1.5	1.6	1.0	8334823			
Acid Extractable Barium (Ba)	ug/g	33	37	35	0.50	8334823			
Acid Extractable Beryllium (Be)	ug/g	0.20	0.31	0.32	0.20	8334823			
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	5.0	8334823			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	0.10	8334823			
Acid Extractable Chromium (Cr)	ug/g	9.7	12	11	1.0	8334823			
Acid Extractable Cobalt (Co)	ug/g	3.7	4.1	4.1	0.10	8334823			
Acid Extractable Copper (Cu)	ug/g	6.9	8.0	8.0	0.50	8334823			
Acid Extractable Lead (Pb)	ug/g	3.0	5.2	5.2	1.0	8334823			
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	0.50	8334823			
Acid Extractable Nickel (Ni)	ug/g	6.5	9.2	9.5	0.50	8334823			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	8334823			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	8334823			
Acid Extractable Thallium (Tl)	ug/g	0.055	0.099	0.10	0.050	8334823			
Acid Extractable Uranium (U)	ug/g	0.41	0.48	0.61	0.050	8334823			
Acid Extractable Vanadium (V)	ug/g	21	22	21	5.0	8334823			
Acid Extractable Zinc (Zn)	ug/g	20	26	24	5.0	8334823			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	8334823			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.



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VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		UFH407		
Sampling Date		2022/11/03 09:45		
COC Number		905425-03-01		
	UNITS	DUP3	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.66		8330688
Inorganics				
Conductivity	mS/cm	0.32	0.002	8334726
Available (CaCl ₂) pH	pH	9.68		8337869
WAD Cyanide (Free)	ug/g	<0.01	0.01	8335730
Chromium (VI)	ug/g	<0.18	0.18	8336169
Metals				
Hot Water Ext. Boron (B)	ug/g	0.17	0.050	8333754
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8334947
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	8334947
Acid Extractable Barium (Ba)	ug/g	36	0.50	8334947
Acid Extractable Beryllium (Be)	ug/g	0.24	0.20	8334947
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8334947
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	8334947
Acid Extractable Chromium (Cr)	ug/g	9.2	1.0	8334947
Acid Extractable Cobalt (Co)	ug/g	3.3	0.10	8334947
Acid Extractable Copper (Cu)	ug/g	6.4	0.50	8334947
Acid Extractable Lead (Pb)	ug/g	3.5	1.0	8334947
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	8334947
Acid Extractable Nickel (Ni)	ug/g	6.4	0.50	8334947
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8334947
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8334947
Acid Extractable Thallium (Tl)	ug/g	0.071	0.050	8334947
Acid Extractable Uranium (U)	ug/g	0.49	0.050	8334947
Acid Extractable Vanadium (V)	ug/g	19	5.0	8334947
Acid Extractable Zinc (Zn)	ug/g	24	5.0	8334947
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8334947
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		UFH344	UFH345	UFH346	UFH347	UFH348	UFH349		
Sampling Date		2022/11/02 10:40	2022/11/02 10:50	2022/11/02 11:00	2022/11/02 11:10	2022/11/02 11:20	2022/11/02 11:30		
COC Number		905425-01-01	905425-01-01	905425-01-01	905425-01-01	905425-01-01	905425-01-01		
	UNITS	TP19	TP20	TP21	TP22	TP23	TP24	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0083	0.0060	0.0063	0.0020	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0023	0.0030	0.0029	0.0020	8330253
Total Endosulfan	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
Total PCB	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
a-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
g-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
o,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
o,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0083	0.0060	0.0063	0.0020	8340410
o,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0023	0.0030	0.0029	0.0020	8340410
Dieldrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Lindane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Endrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Heptachlor	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Heptachlor epoxide	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Hexachlorobenzene	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Hexachloroethane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8340410
Methoxychlor	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8340410
Aroclor 1242	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	8340410
Aroclor 1248	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	8340410
Aroclor 1254	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	8340410
Aroclor 1260	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	8340410

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	86	112	85	94	112	100		8340410
Decachlorobiphenyl	%	92	63	87	107	69	51		8340410

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		UFH350		UFH351		UFH352	UFH353		
Sampling Date		2022/11/02 10:55		2022/11/02 12:45		2022/11/02 12:45	2022/11/02 12:55		
COC Number		905425-01-01		905425-01-01		905425-01-01	905425-01-01		
	UNITS	DUP1	RDL	TP1-1	QC Batch	TP1-2	TP2	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	0.0020	<0.010	8330253	<0.010	<0.010	0.010	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	<0.010	8330253	<0.010	<0.010	0.010	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	<0.010	8330253	<0.010	<0.010	0.010	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	<0.010	8330253	<0.010	<0.010	0.010	8330253
Total Endosulfan	ug/g	<0.0020	0.0020	<0.010	8330253	<0.010	<0.010	0.010	8330253
Total PCB	ug/g	<0.015	0.015	<0.075	8330253	<0.075	<0.075	0.075	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
a-Chlordane	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
g-Chlordane	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
o,p-DDD	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
p,p-DDD	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
o,p-DDE	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
p,p-DDE	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
o,p-DDT	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
p,p-DDT	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Dieldrin	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Lindane	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Endosulfan II (beta)	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Endrin	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Heptachlor	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Heptachlor epoxide	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Hexachlorobenzene	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Hexachlorobutadiene	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Hexachloroethane	ug/g	<0.0020	0.0020	<0.010	8342845	<0.010	<0.010	0.010	8340410
Methoxychlor	ug/g	<0.0050	0.0050	<0.025	8342845	<0.025	<0.025	0.025	8340410
Aroclor 1242	ug/g	<0.015	0.015	<0.075	8342845	<0.075	<0.075	0.075	8340410
Aroclor 1248	ug/g	<0.015	0.015	<0.075	8342845	<0.075	<0.075	0.075	8340410
Aroclor 1254	ug/g	<0.015	0.015	<0.075	8342845	<0.075	<0.075	0.075	8340410
Aroclor 1260	ug/g	<0.015	0.015	<0.075	8342845	<0.075	<0.075	0.075	8340410

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	64		87	8342845	86	73		8340410
Decachlorobiphenyl	%	84		92	8342845	62	63		8340410

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		UFH373		UFH374	UFH375	UFH376	UFH377		
Sampling Date		2022/11/02 01:05		2022/11/02 01:15	2022/11/02 01:15	2022/11/02 01:30	2022/11/02 01:40		
COC Number		905425-05-01		905425-05-01	905425-05-01	905425-05-01	905425-05-01		
	UNITS	TP3	QC Batch	TP4-1	TP4-2	TP5	TP6	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	8330253	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	8330253	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	8330253	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	8330253	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
Total Endosulfan	ug/g	<0.0020	8330253	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8330253
Total PCB	ug/g	<0.015	8330253	<0.015	<0.015	<0.015	<0.015	0.015	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
a-Chlordane	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
g-Chlordane	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
o,p-DDD	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
p,p-DDD	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
o,p-DDE	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
p,p-DDE	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
o,p-DDT	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
p,p-DDT	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Dieldrin	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Lindane	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Endosulfan I (alpha)	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Endosulfan II (beta)	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Endrin	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Heptachlor	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Heptachlor epoxide	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Hexachlorobenzene	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Hexachlorobutadiene	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Hexachloroethane	ug/g	<0.0020	8340410	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8342845
Methoxychlor	ug/g	<0.0050	8340410	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8342845
Aroclor 1242	ug/g	<0.015	8340410	<0.015	<0.015	<0.015	<0.015	0.015	8342845
Aroclor 1248	ug/g	<0.015	8340410	<0.015	<0.015	<0.015	<0.015	0.015	8342845
Aroclor 1254	ug/g	<0.015	8340410	<0.015	<0.015	<0.015	<0.015	0.015	8342845
Aroclor 1260	ug/g	<0.015	8340410	<0.015	<0.015	<0.015	<0.015	0.015	8342845

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	81	8340410	71	74	71	68		8342845
Decachlorobiphenyl	%	75	8340410	86	88	91	79		8342845

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		UFH378			UFH379			UFH380		
Sampling Date		2022/11/02 01:55			2022/11/02 02:15			2022/11/02 02:15		
COC Number		905425-05-01			905425-05-01			905425-05-01		
	UNITS	TP7	RDL	QC Batch	TP8-1	RDL	QC Batch	TP8-2	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	0.0020	8330253	<0.010	0.010	8330253	<0.0020	0.0020	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	8330253	<0.010	0.010	8330253	<0.0020	0.0020	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	8330253	<0.010	0.010	8330253	<0.0020	0.0020	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	8330253	<0.010	0.010	8330253	<0.0020	0.0020	8330253
Total Endosulfan	ug/g	<0.0020	0.0020	8330253	<0.010	0.010	8330253	<0.0020	0.0020	8330253
Total PCB	ug/g	<0.015	0.015	8330253	<0.075	0.075	8330253	<0.015	0.015	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
a-Chlordane	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
g-Chlordane	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
o,p-DDD	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
p,p-DDD	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
o,p-DDE	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
p,p-DDE	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
o,p-DDT	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
p,p-DDT	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Dieldrin	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Lindane	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Endosulfan II (beta)	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Endrin	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Heptachlor	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Heptachlor epoxide	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Hexachlorobenzene	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Hexachlorobutadiene	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Hexachloroethane	ug/g	<0.0020	0.0020	8342845	<0.010	0.010	8340410	<0.0020	0.0020	8342845
Methoxychlor	ug/g	<0.0050	0.0050	8342845	<0.025	0.025	8340410	<0.0050	0.0050	8342845
Aroclor 1242	ug/g	<0.015	0.015	8342845	<0.075	0.075	8340410	<0.015	0.015	8342845
Aroclor 1248	ug/g	<0.015	0.015	8342845	<0.075	0.075	8340410	<0.015	0.015	8342845
Aroclor 1254	ug/g	<0.015	0.015	8342845	<0.075	0.075	8340410	<0.015	0.015	8342845
Aroclor 1260	ug/g	<0.015	0.015	8342845	<0.075	0.075	8340410	<0.015	0.015	8342845

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	69		8342845	76		8340410	51		8342845
Decachlorobiphenyl	%	85		8342845	66		8340410	58		8342845

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		UFH381	UFH382		UFH393			UFH393		
Sampling Date		2022/11/02 01:00	2022/11/03 09:40		2022/11/03 09:55			2022/11/03 09:55		
COC Number		905425-05-01	905425-05-01		905425-02-01			905425-02-01		
	UNITS	DUP2	TP9	RDL	TP10-1	RDL	QC Batch	TP10-1 Lab-Dup	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8330253			
o,p-DDD + p,p-DDD	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8330253			
o,p-DDE + p,p-DDE	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8330253			
o,p-DDT + p,p-DDT	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8330253			
Total Endosulfan	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8330253			
Total PCB	ug/g	<0.075	<0.075	0.075	<0.015	0.015	8330253			

Pesticides & Herbicides

Aldrin	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
a-Chlordane	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
g-Chlordane	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
o,p-DDD	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
p,p-DDD	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
o,p-DDE	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
p,p-DDE	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
o,p-DDT	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
p,p-DDT	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Dieldrin	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Lindane	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Endosulfan I (alpha)	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Endosulfan II (beta)	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Endrin	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Heptachlor	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Heptachlor epoxide	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Hexachlorobenzene	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Hexachlorobutadiene	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Hexachloroethane	ug/g	<0.010	<0.010	0.010	<0.0020	0.0020	8340410	<0.0020	0.0020	8340410
Methoxychlor	ug/g	<0.025	<0.025	0.025	<0.0050	0.0050	8340410	<0.0050	0.0050	8340410
Aroclor 1242	ug/g	<0.075	<0.075	0.075	<0.015	0.015	8340410	<0.015	0.015	8340410
Aroclor 1248	ug/g	<0.075	<0.075	0.075	<0.015	0.015	8340410	<0.015	0.015	8340410
Aroclor 1254	ug/g	<0.075	<0.075	0.075	<0.015	0.015	8340410	<0.015	0.015	8340410
Aroclor 1260	ug/g	<0.075	<0.075	0.075	<0.015	0.015	8340410	<0.015	0.015	8340410

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	92	82		89		8340410	96		8340410
Decachlorobiphenyl	%	80	76		76		8340410	51		8340410

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 OC PESTICIDES (SOIL)**

Bureau Veritas ID		UFH394	UFH395		UFH396	UFH397		
Sampling Date		2022/11/03 10:00	2022/11/03 10:15		2022/11/03 10:30	2022/11/03 12:30		
COC Number		905425-02-01	905425-02-01		905425-02-01	905425-02-01		
	UNITS	TP10-2	TP11	QC Batch	TP12	TP13	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330253
Total Endosulfan	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330253
Total PCB	ug/g	<0.015	<0.015	8330253	<0.015	<0.015	0.015	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
a-Chlordane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
g-Chlordane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDD	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDD	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDE	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDE	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDT	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDT	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Dieldrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Lindane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Heptachlor	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Heptachlor epoxide	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachlorobenzene	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachloroethane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Methoxychlor	ug/g	<0.0050	<0.0050	8340410	<0.0050	<0.0050	0.0050	8342845
Aroclor 1242	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1248	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1254	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1260	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	77	80	8340410	69	68		8342845
Decachlorobiphenyl	%	75	82	8340410	79	77		8342845

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 OC PESTICIDES (SOIL)**

Bureau Veritas ID		UFH398			UFH399			UFH400		
Sampling Date		2022/11/03 12:15			2022/11/03 12:20			2022/11/03 11:45		
COC Number		905425-02-01			905425-02-01			905425-02-01		
	UNITS	TP14-1	RDL	QC Batch	TP14-2	RDL	QC Batch	TP15-1	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.010	0.010	8330253	<0.0020	0.0020	8330253	<0.010	0.010	8330253
o,p-DDD + p,p-DDD	ug/g	<0.010	0.010	8330253	<0.0020	0.0020	8330253	<0.010	0.010	8330253
o,p-DDE + p,p-DDE	ug/g	<0.010	0.010	8330253	<0.0020	0.0020	8330253	<0.010	0.010	8330253
o,p-DDT + p,p-DDT	ug/g	<0.010	0.010	8330253	<0.0020	0.0020	8330253	<0.010	0.010	8330253
Total Endosulfan	ug/g	<0.010	0.010	8330253	<0.0020	0.0020	8330253	<0.010	0.010	8330253
Total PCB	ug/g	<0.075	0.075	8330253	<0.015	0.015	8330253	<0.075	0.075	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
a-Chlordane	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
g-Chlordane	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
o,p-DDD	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
p,p-DDD	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
o,p-DDE	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
p,p-DDE	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
o,p-DDT	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
p,p-DDT	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Dieldrin	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Lindane	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Endosulfan I (alpha)	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Endosulfan II (beta)	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Endrin	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Heptachlor	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Heptachlor epoxide	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Hexachlorobenzene	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Hexachlorobutadiene	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Hexachloroethane	ug/g	<0.010	0.010	8340410	<0.0020	0.0020	8342845	<0.010	0.010	8340410
Methoxychlor	ug/g	<0.025	0.025	8340410	<0.0050	0.0050	8342845	<0.025	0.025	8340410
Aroclor 1242	ug/g	<0.075	0.075	8340410	<0.015	0.015	8342845	<0.075	0.075	8340410
Aroclor 1248	ug/g	<0.075	0.075	8340410	<0.015	0.015	8342845	<0.075	0.075	8340410
Aroclor 1254	ug/g	<0.075	0.075	8340410	<0.015	0.015	8342845	<0.075	0.075	8340410
Aroclor 1260	ug/g	<0.075	0.075	8340410	<0.015	0.015	8342845	<0.075	0.075	8340410

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	91		8340410	66		8342845	69		8340410
Decachlorobiphenyl	%	96		8340410	79		8342845	70		8340410

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 OC PESTICIDES (SOIL)**

Bureau Veritas ID		UFH401			UFH401			UFH402		
Sampling Date		2022/11/03 11:50			2022/11/03 11:50			2022/11/03 11:15		
COC Number		905425-02-01			905425-02-01			905425-02-01		
	UNITS	TP15-2	RDL	QC Batch	TP15-2 Lab-Dup	RDL	QC Batch	TP16-1	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	0.0020	8330253				<0.0020	0.0020	8330253
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	8330253				<0.0020	0.0020	8330253
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	8330253				<0.0020	0.0020	8330253
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	8330253				<0.0020	0.0020	8330253
Total Endosulfan	ug/g	<0.0020	0.0020	8330253				<0.0020	0.0020	8330253
Total PCB	ug/g	<0.015	0.015	8330253				<0.015	0.015	8330253

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
a-Chlordane	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
g-Chlordane	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
o,p-DDD	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
p,p-DDD	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
o,p-DDE	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
p,p-DDE	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
o,p-DDT	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
p,p-DDT	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Dieldrin	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Lindane	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Endosulfan II (beta)	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Endrin	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Heptachlor	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Heptachlor epoxide	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Hexachlorobenzene	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Hexachlorobutadiene	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Hexachloroethane	ug/g	<0.0020	0.0020	8342845	<0.0020	0.0020	8342845	<0.0020	0.0020	8340410
Methoxychlor	ug/g	<0.0050	0.0050	8342845	<0.0050	0.0050	8342845	<0.0050	0.0050	8340410
Aroclor 1242	ug/g	<0.015	0.015	8342845	<0.015	0.015	8342845	<0.015	0.015	8340410
Aroclor 1248	ug/g	<0.015	0.015	8342845	<0.015	0.015	8342845	<0.015	0.015	8340410
Aroclor 1254	ug/g	<0.015	0.015	8342845	<0.015	0.015	8342845	<0.015	0.015	8340410
Aroclor 1260	ug/g	<0.015	0.015	8342845	<0.015	0.015	8342845	<0.015	0.015	8340410

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	62		8342845	67		8342845	113		8340410
Decachlorobiphenyl	%	67		8342845	72		8342845	56		8340410

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 OC PESTICIDES (SOIL)**

Bureau Veritas ID		UFH404	UFH405		UFH406	UFH407		
Sampling Date		2022/11/03 11:20	2022/11/03 11:00		2022/11/03 10:45	2022/11/03 09:45		
COC Number		905425-03-01	905425-03-01		905425-03-01	905425-03-01		
	UNITS	TP16-2	TP17	QC Batch	TP18	DUP3	RDL	QC Batch

Calculated Parameters

Chlordane (Total)	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330684
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330684
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330684
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330684
Total Endosulfan	ug/g	<0.0020	<0.0020	8330253	<0.0020	<0.0020	0.0020	8330684
Total PCB	ug/g	<0.015	<0.015	8330253	<0.015	<0.015	0.015	8330684

Pesticides & Herbicides

Aldrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
a-Chlordane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
g-Chlordane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDD	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDD	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDE	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDE	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
o,p-DDT	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
p,p-DDT	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Dieldrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Lindane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Endrin	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Heptachlor	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Heptachlor epoxide	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachlorobenzene	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Hexachloroethane	ug/g	<0.0020	<0.0020	8340410	<0.0020	<0.0020	0.0020	8342845
Methoxychlor	ug/g	<0.0050	<0.0050	8340410	<0.0050	<0.0050	0.0050	8342845
Aroclor 1242	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1248	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1254	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845
Aroclor 1260	ug/g	<0.015	<0.015	8340410	<0.015	<0.015	0.015	8342845

Surrogate Recovery (%)

2,4,5,6-Tetrachloro-m-xylene	%	86	87	8340410	68	68		8342845
Decachlorobiphenyl	%	81	89	8340410	70	65		8342845

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH344			UFH344			UFH345	UFH346		
Sampling Date		2022/11/02 10:40			2022/11/02 10:40			2022/11/02 10:50	2022/11/02 11:00		
COC Number		905425-01-01			905425-01-01			905425-01-01	905425-01-01		
	UNITS	TP19	RDL	QC Batch	TP19 Lab-Dup	RDL	QC Batch	TP20	TP21	RDL	QC Batch
Inorganics											
Moisture	%	10	1.0	8332495				11	11	1.0	8332495
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	0.020	8337441	<0.020	0.020	8337441	<0.020	<0.020	0.020	8337441
Toluene	ug/g	<0.020	0.020	8337441	<0.020	0.020	8337441	<0.020	<0.020	0.020	8337441
Ethylbenzene	ug/g	<0.020	0.020	8337441	<0.020	0.020	8337441	<0.020	<0.020	0.020	8337441
o-Xylene	ug/g	<0.020	0.020	8337441	<0.020	0.020	8337441	<0.020	<0.020	0.020	8337441
p+m-Xylene	ug/g	<0.040	0.040	8337441	<0.040	0.040	8337441	<0.040	<0.040	0.040	8337441
Total Xylenes	ug/g	<0.040	0.040	8337441	<0.040	0.040	8337441	<0.040	<0.040	0.040	8337441
F1 (C6-C10)	ug/g	<10	10	8337441	<10	10	8337441	<10	<10	10	8337441
F1 (C6-C10) - BTEX	ug/g	<10	10	8337441	<10	10	8337441	<10	<10	10	8337441
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	8342149				<10	<10	10	8342149
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	8342149				<50	<50	50	8342149
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	8342149				<50	<50	50	8342149
Reached Baseline at C50	ug/g	Yes		8342149				Yes	Yes		8342149
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	100		8337441	101		8337441	101	101		8337441
4-Bromofluorobenzene	%	97		8337441	96		8337441	96	88		8337441
D10-o-Xylene	%	91		8337441	89		8337441	85	86		8337441
D4-1,2-Dichloroethane	%	98		8337441	96		8337441	98	99		8337441
o-Terphenyl	%	100		8342149				99	98		8342149
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH347		UFH348	UFH349		UFH350		
Sampling Date		2022/11/02 11:10		2022/11/02 11:20	2022/11/02 11:30		2022/11/02 10:55		
COC Number		905425-01-01		905425-01-01	905425-01-01		905425-01-01		
	UNITS	TP22	QC Batch	TP23	TP24	QC Batch	DUP1	RDL	QC Batch

Inorganics

Moisture	%	14	8332495	14	9.6	8333419	12	1.0	8333419
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BTEX & F1 Hydrocarbons

Benzene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
Toluene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
Ethylbenzene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
o-Xylene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
p+m-Xylene	ug/g	<0.040	8337441	<0.040	<0.040	8337441	<0.040	0.040	8337441
Total Xylenes	ug/g	<0.040	8337441	<0.040	<0.040	8337441	<0.040	0.040	8337441
F1 (C6-C10)	ug/g	<10	8337441	<10	<10	8337441	<10	10	8337441
F1 (C6-C10) - BTEX	ug/g	<10	8337441	<10	<10	8337441	<10	10	8337441

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<10	8342149	<10	<10	8342879	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	<50	8342149	<50	<50	8342879	<50	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	<50	8342149	<50	<50	8342879	<50	50	8342144
Reached Baseline at C50	ug/g	Yes	8342149	Yes	Yes	8342879	Yes		8342144

Surrogate Recovery (%)

1,4-Difluorobenzene	%	99	8337441	99	102	8337441	102		8337441
4-Bromofluorobenzene	%	98	8337441	98	97	8337441	96		8337441
D10-o-Xylene	%	82	8337441	93	90	8337441	91		8337441
D4-1,2-Dichloroethane	%	97	8337441	99	97	8337441	95		8337441
o-Terphenyl	%	102	8342149	98	97	8342879	87		8342144

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH350			UFH351		UFH352	UFH353		
Sampling Date		2022/11/02 10:55			2022/11/02 12:45		2022/11/02 12:45	2022/11/02 12:55		
COC Number		905425-01-01			905425-01-01		905425-01-01	905425-01-01		
	UNITS	DUP1 Lab-Dup	RDL	QC Batch	TP1-1	QC Batch	TP1-2	TP2	RDL	QC Batch
Inorganics										
Moisture	%				8.1	8333419	9.1	9.4	1.0	8332495
BTEX & F1 Hydrocarbons										
Benzene	ug/g				<0.020	8337441	<0.020	<0.020	0.020	8337441
Toluene	ug/g				<0.020	8337441	<0.020	<0.020	0.020	8337441
Ethylbenzene	ug/g				<0.020	8337441	<0.020	<0.020	0.020	8337441
o-Xylene	ug/g				<0.020	8337441	<0.020	<0.020	0.020	8337441
p+m-Xylene	ug/g				<0.040	8337441	<0.040	<0.040	0.040	8337441
Total Xylenes	ug/g				<0.040	8337441	<0.040	<0.040	0.040	8337441
F1 (C6-C10)	ug/g				<10	8337441	<10	<10	10	8337441
F1 (C6-C10) - BTEX	ug/g				<10	8337441	<10	<10	10	8337441
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	8342144	<10	8342144	<10	<10	10	8342149
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	8342144	110	8342144	150	52	50	8342149
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	8342144	230	8342144	320	93	50	8342149
Reached Baseline at C50	ug/g	Yes		8342144	Yes	8342144	No	Yes		8342149
Surrogate Recovery (%)										
1,4-Difluorobenzene	%				100	8337441	100	103		8337441
4-Bromofluorobenzene	%				95	8337441	95	96		8337441
D10-o-Xylene	%				90	8337441	88	85		8337441
D4-1,2-Dichloroethane	%				98	8337441	98	97		8337441
o-Terphenyl	%	86		8342144	88	8342144	99	98		8342149
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH373		UFH374	UFH375		UFH376		
Sampling Date		2022/11/02 01:05		2022/11/02 01:15	2022/11/02 01:15		2022/11/02 01:30		
COC Number		905425-05-01		905425-05-01	905425-05-01		905425-05-01		
	UNITS	TP3	QC Batch	TP4-1	TP4-2	QC Batch	TP5	RDL	QC Batch

Inorganics

Moisture	%	12	8332495	6.9	10	8333195	7.7	1.0	8333419
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BTEX & F1 Hydrocarbons

Benzene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
Toluene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
Ethylbenzene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
o-Xylene	ug/g	<0.020	8337441	<0.020	<0.020	8337441	<0.020	0.020	8337441
p+m-Xylene	ug/g	<0.040	8337441	<0.040	<0.040	8337441	<0.040	0.040	8337441
Total Xylenes	ug/g	<0.040	8337441	<0.040	<0.040	8337441	<0.040	0.040	8337441
F1 (C6-C10)	ug/g	<10	8337441	<10	<10	8337441	<10	10	8337441
F1 (C6-C10) - BTEX	ug/g	<10	8337441	<10	<10	8337441	<10	10	8337441

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<10	8342149	<10	<10	8342144	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	<50	8342149	<50	<50	8342144	<50	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	<50	8342149	<50	<50	8342144	<50	50	8342144
Reached Baseline at C50	ug/g	Yes	8342149	Yes	Yes	8342144	Yes		8342144

Surrogate Recovery (%)

1,4-Difluorobenzene	%	101	8337441	101	101	8337441	101		8337441
4-Bromofluorobenzene	%	96	8337441	95	96	8337441	95		8337441
D10-o-Xylene	%	88	8337441	88	90	8337441	88		8337441
D4-1,2-Dichloroethane	%	98	8337441	99	96	8337441	95		8337441
o-Terphenyl	%	97	8342149	88	86	8342144	87		8342144

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 PHCS, BTEX/F1-F4 (SOIL)**

Bureau Veritas ID		UFH377	UFH378		UFH379		UFH380		
Sampling Date		2022/11/02 01:40	2022/11/02 01:55		2022/11/02 02:15		2022/11/02 02:15		
COC Number		905425-05-01	905425-05-01		905425-05-01		905425-05-01		
	UNITS	TP6	TP7	QC Batch	TP8-1	QC Batch	TP8-2	RDL	QC Batch

Inorganics

Moisture	%	9.6	8.1	8333195	9.9	8332495	9.7	1.0	8333419
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BTEX & F1 Hydrocarbons

Benzene	ug/g	<0.020	<0.020	8337441	<0.020	8337441	<0.020	0.020	8337441
Toluene	ug/g	<0.020	<0.020	8337441	<0.020	8337441	<0.020	0.020	8337441
Ethylbenzene	ug/g	<0.020	<0.020	8337441	<0.020	8337441	<0.020	0.020	8337441
o-Xylene	ug/g	<0.020	<0.020	8337441	<0.020	8337441	<0.020	0.020	8337441
p+m-Xylene	ug/g	<0.040	<0.040	8337441	<0.040	8337441	<0.040	0.040	8337441
Total Xylenes	ug/g	<0.040	<0.040	8337441	<0.040	8337441	<0.040	0.040	8337441
F1 (C6-C10)	ug/g	<10	<10	8337441	<10	8337441	<10	10	8337441
F1 (C6-C10) - BTEX	ug/g	<10	<10	8337441	<10	8337441	<10	10	8337441

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	8342144	<10	8342149	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	8342144	<50	8342149	72	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	8342144	<50	8342149	130	50	8342144
Reached Baseline at C50	ug/g	Yes	Yes	8342144	Yes	8342149	Yes		8342144

Surrogate Recovery (%)

1,4-Difluorobenzene	%	104	103	8337441	102	8337441	100		8337441
4-Bromofluorobenzene	%	93	95	8337441	96	8337441	98		8337441
D10-o-Xylene	%	87	89	8337441	87	8337441	94		8337441
D4-1,2-Dichloroethane	%	98	95	8337441	98	8337441	99		8337441
o-Terphenyl	%	85	86	8342144	97	8342149	87		8342144

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH381	UFH382		UFH393			UFH393		
Sampling Date		2022/11/02 01:00	2022/11/03 09:40		2022/11/03 09:55			2022/11/03 09:55		
COC Number		905425-05-01	905425-05-01		905425-02-01			905425-02-01		
	UNITS	DUP2	TP9	QC Batch	TP10-1	RDL	QC Batch	TP10-1 Lab-Dup	RDL	QC Batch
Inorganics										
Moisture	%	9.3	8.2	8332495	9.1	1.0	8332495			
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	<0.020	8337441	<0.020	0.020	8337541	<0.020	0.020	8337541
Toluene	ug/g	<0.020	<0.020	8337441	<0.020	0.020	8337541	<0.020	0.020	8337541
Ethylbenzene	ug/g	<0.020	<0.020	8337441	<0.020	0.020	8337541	<0.020	0.020	8337541
o-Xylene	ug/g	<0.020	<0.020	8337441	<0.020	0.020	8337541	<0.020	0.020	8337541
p+m-Xylene	ug/g	<0.040	<0.040	8337441	<0.040	0.040	8337541	<0.040	0.040	8337541
Total Xylenes	ug/g	<0.040	<0.040	8337441	<0.040	0.040	8337541	<0.040	0.040	8337541
F1 (C6-C10)	ug/g	<10	<10	8337441	<10	10	8337541	<10	10	8337541
F1 (C6-C10) - BTEX	ug/g	<10	<10	8337441	<10	10	8337541	<10	10	8337541
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	8342149	<10	10	8342149			
F3 (C16-C34 Hydrocarbons)	ug/g	68	63	8342149	<50	50	8342149			
F4 (C34-C50 Hydrocarbons)	ug/g	120	110	8342149	<50	50	8342149			
Reached Baseline at C50	ug/g	Yes	Yes	8342149	Yes		8342149			
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	102	100	8337441	102		8337541	102		8337541
4-Bromofluorobenzene	%	97	97	8337441	96		8337541	98		8337541
D10-o-Xylene	%	89	93	8337441	85		8337541	78		8337541
D4-1,2-Dichloroethane	%	96	98	8337441	101		8337541	102		8337541
o-Terphenyl	%	97	97	8342149	96		8342149			
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**O.REG 153 PHCS, BTEX/F1-F4 (SOIL)**

Bureau Veritas ID		UFH394	UFH395		UFH396		UFH397		
Sampling Date		2022/11/03 10:00	2022/11/03 10:15		2022/11/03 10:30		2022/11/03 12:30		
COC Number		905425-02-01	905425-02-01		905425-02-01		905425-02-01		
	UNITS	TP10-2	TP11	QC Batch	TP12	QC Batch	TP13	RDL	QC Batch

Inorganics

Moisture	%	10	9.9	8332495	8.6	8333419	8.2	1.0	8333195
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BTEX & F1 Hydrocarbons

Benzene	ug/g	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
Toluene	ug/g	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
Ethylbenzene	ug/g	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
o-Xylene	ug/g	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
p+m-Xylene	ug/g	<0.040	<0.040	8337541	<0.040	8337541	<0.040	0.040	8337541
Total Xylenes	ug/g	<0.040	<0.040	8337541	<0.040	8337541	<0.040	0.040	8337541
F1 (C6-C10)	ug/g	<10	<10	8337541	<10	8337541	<10	10	8337541
F1 (C6-C10) - BTEX	ug/g	<10	<10	8337541	<10	8337541	<10	10	8337541

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	8342149	<10	8342144	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	8342149	<50	8342144	<50	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	8342149	<50	8342144	<50	50	8342144
Reached Baseline at C50	ug/g	Yes	Yes	8342149	Yes	8342144	Yes		8342144

Surrogate Recovery (%)

1,4-Difluorobenzene	%	103	103	8337541	101	8337541	101		8337541
4-Bromofluorobenzene	%	97	97	8337541	97	8337541	98		8337541
D10-o-Xylene	%	82	80	8337541	85	8337541	79		8337541
D4-1,2-Dichloroethane	%	102	102	8337541	100	8337541	101		8337541
o-Terphenyl	%	97	95	8342149	85	8342144	83		8342144

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH398	UFH399	UFH400		UFH401		UFH402		
Sampling Date		2022/11/03 12:15	2022/11/03 12:20	2022/11/03 11:45		2022/11/03 11:50		2022/11/03 11:15		
COC Number		905425-02-01	905425-02-01	905425-02-01		905425-02-01		905425-02-01		
	UNITS	TP14-1	TP14-2	TP15-1	QC Batch	TP15-2	QC Batch	TP16-1	RDL	QC Batch

Inorganics

Moisture	%	6.7	12	8.8	8332495	10	8333419	9.9	1.0	8332495
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BTEX & F1 Hydrocarbons

Benzene	ug/g	<0.020	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
Toluene	ug/g	<0.020	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
o-Xylene	ug/g	<0.020	<0.020	<0.020	8337541	<0.020	8337541	<0.020	0.020	8337541
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	8337541	<0.040	8337541	<0.040	0.040	8337541
Total Xylenes	ug/g	<0.040	<0.040	<0.040	8337541	<0.040	8337541	<0.040	0.040	8337541
F1 (C6-C10)	ug/g	<10	<10	<10	8337541	<10	8337541	<10	10	8337541
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	8337541	<10	8337541	<10	10	8337541

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	8342149	<10	8342144	<10	10	8342149
F3 (C16-C34 Hydrocarbons)	ug/g	64	62	94	8342149	58	8342144	<50	50	8342149
F4 (C34-C50 Hydrocarbons)	ug/g	110	110	210	8342149	100	8342144	<50	50	8342149
Reached Baseline at C50	ug/g	Yes	Yes	No	8342149	Yes	8342144	Yes		8342149

Surrogate Recovery (%)

1,4-Difluorobenzene	%	102	103	102	8337541	102	8337541	102		8337541
4-Bromofluorobenzene	%	99	97	98	8337541	96	8337541	98		8337541
D10-o-Xylene	%	84	84	86	8337541	90	8337541	86		8337541
D4-1,2-Dichloroethane	%	102	97	100	8337541	99	8337541	97		8337541
o-Terphenyl	%	97	97	97	8342149	80	8342144	95		8342149

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH404	UFH405		UFH405			UFH406			
Sampling Date		2022/11/03 11:20	2022/11/03 11:00		2022/11/03 11:00			2022/11/03 10:45			
COC Number		905425-03-01	905425-03-01		905425-03-01			905425-03-01			
	UNITS	TP16-2	TP17	RDL	QC Batch	TP17 Lab-Dup	RDL	QC Batch	TP18	RDL	QC Batch
Inorganics											
Moisture	%	8.9	11	1.0	8332495				11	1.0	8333195
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	<0.020	0.020	8337541				<0.020	0.020	8337541
Toluene	ug/g	<0.020	<0.020	0.020	8337541				<0.020	0.020	8337541
Ethylbenzene	ug/g	<0.020	<0.020	0.020	8337541				<0.020	0.020	8337541
o-Xylene	ug/g	<0.020	<0.020	0.020	8337541				<0.020	0.020	8337541
p+m-Xylene	ug/g	<0.040	<0.040	0.040	8337541				<0.040	0.040	8337541
Total Xylenes	ug/g	<0.040	<0.040	0.040	8337541				<0.040	0.040	8337541
F1 (C6-C10)	ug/g	<10	<10	10	8337541				<10	10	8337541
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	8337541				<10	10	8337541
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	8342149	<10	10	8342149	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	8342149	<50	50	8342149	<50	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	8342149	<50	50	8342149	<50	50	8342144
Reached Baseline at C50	ug/g	Yes	Yes		8342149	Yes		8342149	Yes		8342144
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	101	103		8337541				104		8337541
4-Bromofluorobenzene	%	97	97		8337541				96		8337541
D10-o-Xylene	%	82	88		8337541				79		8337541
D4-1,2-Dichloroethane	%	98	101		8337541				102		8337541
o-Terphenyl	%	96	99		8342149	97		8342149	87		8342144
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		UFH407		
Sampling Date		2022/11/03 09:45		
COC Number		905425-03-01		
	UNITS	DUP3	RDL	QC Batch
Inorganics				
Moisture	%	8.2	1.0	8333419
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	8337541
Toluene	ug/g	<0.020	0.020	8337541
Ethylbenzene	ug/g	<0.020	0.020	8337541
o-Xylene	ug/g	<0.020	0.020	8337541
p+m-Xylene	ug/g	<0.040	0.040	8337541
Total Xylenes	ug/g	<0.040	0.040	8337541
F1 (C6-C10)	ug/g	<10	10	8337541
F1 (C6-C10) - BTEX	ug/g	<10	10	8337541
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	8342144
F3 (C16-C34 Hydrocarbons)	ug/g	65	50	8342144
F4 (C34-C50 Hydrocarbons)	ug/g	120	50	8342144
Reached Baseline at C50	ug/g	Yes		8342144
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	103		8337541
4-Bromofluorobenzene	%	96		8337541
D10-o-Xylene	%	78		8337541
D4-1,2-Dichloroethane	%	96		8337541
o-Terphenyl	%	87		8342144
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		UFH352	UFH353	UFH400		
Sampling Date		2022/11/02 12:45	2022/11/02 12:55	2022/11/03 11:45		
COC Number		905425-01-01	905425-01-01	905425-02-01		
	UNITS	TP1-2	TP2	TP15-1	RDL	QC Batch
F2-F4 Hydrocarbons						
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1300	710	670	100	8345738
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH344
Sample ID: TP19
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8335679	2022/11/09	2022/11/10	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Total Metals in SPLP Leachate by ICPMS	ICP/MS	8340121	2022/11/11	2022/11/11	Arefa Dabhad
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
Modified SPLP extraction - Weight		8335705	N/A	2022/11/10	Jian (Ken) Wang
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337884	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH344 Dup
Sample ID: TP19
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu

Bureau Veritas ID: UFH345
Sample ID: TP20
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH346
Sample ID: TP21
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338662	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337884	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH346 Dup
Sample ID: TP21
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur

Bureau Veritas ID: UFH347
Sample ID: TP22
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH348
Sample ID: TP23
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH348
Sample ID: TP23
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8335679	2022/11/09	2022/11/10	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342879	2022/11/13	2022/11/14	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Total Metals in SPLP Leachate by ICPMS	ICP/MS	8340121	2022/11/11	2022/11/11	Arefa Dabhad
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
Modified SPLP extraction - Weight		8335705	N/A	2022/11/10	Jian (Ken) Wang
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337884	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH349
Sample ID: TP24
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342879	2022/11/13	2022/11/14	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH350
Sample ID: DUP1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH350
Sample ID: DUP1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH350 Dup
Sample ID: DUP1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li

Bureau Veritas ID: UFH351
Sample ID: TP1-1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8335679	2022/11/09	2022/11/10	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Total Metals in SPLP Leachate by ICPMS	ICP/MS	8340121	2022/11/11	2022/11/11	Arefa Dabhad
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
Modified SPLP extraction - Weight		8335705	N/A	2022/11/10	Jian (Ken) Wang
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337884	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH351 Dup
Sample ID: TP1-1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu

Bureau Veritas ID: UFH352
Sample ID: TP1-2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH352
Sample ID: TP1-2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8335679	2022/11/09	2022/11/10	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	8345738	2022/11/15	2022/11/15	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337884	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH353
Sample ID: TP2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8335082	2022/11/09	2022/11/10	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334750	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	8345738	2022/11/15	2022/11/15	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH373
Sample ID: TP3
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	8345738	2022/11/15	2022/11/15	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH373
Sample ID: TP3
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH374
Sample ID: TP4-1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH375
Sample ID: TP4-2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330254	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH376
Sample ID: TP5
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH376
Sample ID: TP5
Matrix: SoilCollected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334750	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330687	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH377
Sample ID: TP6
Matrix: SoilCollected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Total Metals in SPLP Leachate by ICPMS	ICP/MS	8340121	2022/11/11	2022/11/11	Arefa Dabhad
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles
Modified SPLP extraction - Weight		8335705	N/A	2022/11/10	Jian (Ken) Wang
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH378
Sample ID: TP7
Matrix: SoilCollected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333736	2022/11/08	2022/11/08	Jaswinder Kaur
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334734	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA**TEST SUMMARY**

Bureau Veritas ID: UFH378
Sample ID: TP7
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330687	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH379
Sample ID: TP8-1
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH380
Sample ID: TP8-2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH381
Sample ID: DUP2
Matrix: Soil

Collected: 2022/11/02
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH382
Sample ID: TP9
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8335082	2022/11/09	2022/11/10	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337441	N/A	2022/11/10	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH393
Sample ID: TP10-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH393
Sample ID: TP10-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH393 Dup
Sample ID: TP10-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang

Bureau Veritas ID: UFH394
Sample ID: TP10-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH394 Dup
Sample ID: TP10-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul

Bureau Veritas ID: UFH395
Sample ID: TP11
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana

BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
 Client Project #: 20146060
 Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH395
Sample ID: TP11
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH395 Dup
Sample ID: TP11
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana

Bureau Veritas ID: UFH396
Sample ID: TP12
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8337736	2022/11/10	2022/11/10	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336151	2022/11/09	2022/11/10	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337859	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH396 Dup
Sample ID: TP12
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	8337736	2022/11/10	2022/11/10	Prgya Panchal
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd

Client Project #: 20146060

Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH397
Sample ID: TP13
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335761	2022/11/09	2022/11/10	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH398
Sample ID: TP14-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH398 Dup
Sample ID: TP14-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH399
Sample ID: TP14-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334750	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH399 Dup
Sample ID: TP14-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8334750	2022/11/09	2022/11/09	Surinder Rai

Bureau Veritas ID: UFH400
Sample ID: TP15-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	8345738	2022/11/15	2022/11/15	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH401
Sample ID: TP15-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8335082	2022/11/09	2022/11/10	Indira HarryPaul



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH401
Sample ID: TP15-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/10	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Total Metals in SPLP Leachate by ICPMS	ICP/MS	8340121	2022/11/11	2022/11/11	Arefa Dabhad
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
Modified SPLP extraction - Weight		8335705	N/A	2022/11/10	Jian (Ken) Wang
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH401 Dup
Sample ID: TP15-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan

Bureau Veritas ID: UFH402
Sample ID: TP16-1
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/11	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8333836	2022/11/08	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH404
Sample ID: TP16-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH404
Sample ID: TP16-2
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/11	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH405
Sample ID: TP17
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/11	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8332495	N/A	2022/11/08	Joe Thomas
OC Pesticides (Selected) & PCB	GC/ECD	8340410	2022/11/11	2022/11/12	Joy Zhang
OC Pesticides Summed Parameters	CALC	8330253	N/A	2022/11/08	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH405 Dup
Sample ID: TP17
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342149	2022/11/12	2022/11/13	Suleeqa Nurr

Bureau Veritas ID: UFH406
Sample ID: TP18
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335677	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

TEST SUMMARY

Bureau Veritas ID: UFH406
Sample ID: TP18
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8338659	2022/11/10	2022/11/12	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/11	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334823	2022/11/09	2022/11/10	Daniel Teclu
Moisture	BAL	8333195	N/A	2022/11/08	Mathew Bowles
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330684	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8335579	2022/11/09	2022/11/09	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk

Bureau Veritas ID: UFH406 Dup
Sample ID: TP18
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai

Bureau Veritas ID: UFH407
Sample ID: DUP3
Matrix: Soil

Collected: 2022/11/03
Shipped:
Received: 2022/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8333754	2022/11/08	2022/11/09	Indira HarryPaul
Free (WAD) Cyanide	TECH	8335730	2022/11/09	2022/11/09	Prgya Panchal
Conductivity	AT	8334726	2022/11/09	2022/11/09	Surinder Rai
Hexavalent Chromium in Soil by IC	IC/SPEC	8336169	2022/11/09	2022/11/11	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8337541	N/A	2022/11/11	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8342144	2022/11/12	2022/11/13	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	8334947	2022/11/09	2022/11/09	Azita Fazaeli
Moisture	BAL	8333419	N/A	2022/11/08	Simrat Bhathal
OC Pesticides (Selected) & PCB	GC/ECD	8342845	2022/11/13	2022/11/14	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8330684	N/A	2022/11/09	Automated Statchk
pH CaCl ₂ EXTRACT	AT	8337869	2022/11/10	2022/11/10	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8330688	N/A	2022/11/10	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd

Client Project #: 20146060

Sampler Initials: SA

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.3°C
Package 2	2.0°C
Package 3	1.0°C

F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

OC Pesticide Analysis: Due to the sample matrix, some samples required dilution. Detection limits were adjusted accordingly.

Sample UFH351 [TP1-1] : OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample UFH353 [TP2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UFH373 [TP3] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UFH381 [DUP2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.



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Bureau Veritas Job #: C2W4314

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QUALITY ASSURANCE REPORT

Golder Associates Ltd

Client Project #: 20146060

Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8337441	1,4-Difluorobenzene	2022/11/10			99	60 - 140	103	%				
8337441	4-Bromofluorobenzene	2022/11/10			104	60 - 140	90	%				
8337441	D10-o-Xylene	2022/11/10			86	60 - 140	88	%				
8337441	D4-1,2-Dichloroethane	2022/11/10			93	60 - 140	98	%				
8337541	1,4-Difluorobenzene	2022/11/10			103	60 - 140	102	%				
8337541	4-Bromofluorobenzene	2022/11/10			97	60 - 140	97	%				
8337541	D10-o-Xylene	2022/11/10			83	60 - 140	84	%				
8337541	D4-1,2-Dichloroethane	2022/11/10			97	60 - 140	102	%				
8340410	2,4,5,6-Tetrachloro-m-xylene	2022/11/12	95	50 - 130	83	50 - 130	93	%				
8340410	Decachlorobiphenyl	2022/11/12	122	50 - 130	104	50 - 130	109	%				
8342144	o-Terphenyl	2022/11/13	92	60 - 130	88	60 - 130	91	%				
8342149	o-Terphenyl	2022/11/13	97	60 - 130	95	60 - 130	100	%				
8342845	2,4,5,6-Tetrachloro-m-xylene	2022/11/14	66	50 - 130	64	50 - 130	73	%				
8342845	Decachlorobiphenyl	2022/11/14	85	50 - 130	82	50 - 130	88	%				
8342879	o-Terphenyl	2022/11/13	102	60 - 130	100	60 - 130	114	%				
8332495	Moisture	2022/11/08							2.4	20		
8333195	Moisture	2022/11/08							3.3	20		
8333419	Moisture	2022/11/08							0	20		
8333736	Hot Water Ext. Boron (B)	2022/11/08	105	75 - 125	100	75 - 125	<0.050	ug/g	2.6	40		
8333754	Hot Water Ext. Boron (B)	2022/11/09	106	75 - 125	101	75 - 125	<0.050	ug/g	NC	40		
8333836	Acid Extractable Antimony (Sb)	2022/11/10	101	75 - 125	97	80 - 120	<0.20	ug/g	NC	30		
8333836	Acid Extractable Arsenic (As)	2022/11/10	102	75 - 125	98	80 - 120	<1.0	ug/g	4.9	30		
8333836	Acid Extractable Barium (Ba)	2022/11/10	NC	75 - 125	95	80 - 120	<0.50	ug/g	0.83	30		
8333836	Acid Extractable Beryllium (Be)	2022/11/10	105	75 - 125	97	80 - 120	<0.20	ug/g	3.6	30		
8333836	Acid Extractable Boron (B)	2022/11/10	105	75 - 125	97	80 - 120	<5.0	ug/g	NC	30		
8333836	Acid Extractable Cadmium (Cd)	2022/11/10	106	75 - 125	94	80 - 120	<0.10	ug/g	NC	30		
8333836	Acid Extractable Chromium (Cr)	2022/11/10	107	75 - 125	99	80 - 120	<1.0	ug/g	0.58	30		
8333836	Acid Extractable Cobalt (Co)	2022/11/10	103	75 - 125	98	80 - 120	<0.10	ug/g	2.1	30		
8333836	Acid Extractable Copper (Cu)	2022/11/10	103	75 - 125	97	80 - 120	<0.50	ug/g	0.37	30		
8333836	Acid Extractable Lead (Pb)	2022/11/10	105	75 - 125	100	80 - 120	<1.0	ug/g	3.9	30		
8333836	Acid Extractable Mercury (Hg)	2022/11/10	90	75 - 125	89	80 - 120	<0.050	ug/g	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8333836	Acid Extractable Molybdenum (Mo)	2022/11/10	107	75 - 125	95	80 - 120	<0.50	ug/g	NC	30		
8333836	Acid Extractable Nickel (Ni)	2022/11/10	101	75 - 125	99	80 - 120	<0.50	ug/g	1.9	30		
8333836	Acid Extractable Selenium (Se)	2022/11/10	104	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
8333836	Acid Extractable Silver (Ag)	2022/11/10	105	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
8333836	Acid Extractable Thallium (Tl)	2022/11/10	104	75 - 125	99	80 - 120	<0.050	ug/g	7.6	30		
8333836	Acid Extractable Uranium (U)	2022/11/10	105	75 - 125	99	80 - 120	<0.050	ug/g	14	30		
8333836	Acid Extractable Vanadium (V)	2022/11/10	106	75 - 125	99	80 - 120	<5.0	ug/g	0.74	30		
8333836	Acid Extractable Zinc (Zn)	2022/11/10	102	75 - 125	98	80 - 120	<5.0	ug/g	4.1	30		
8334726	Conductivity	2022/11/09			103	90 - 110	<0.002	mS/cm	3.7	10		
8334734	Conductivity	2022/11/09			105	90 - 110	<0.002	mS/cm	1.7	10		
8334750	Conductivity	2022/11/09			105	90 - 110	<0.002	mS/cm	5.5	10		
8334823	Acid Extractable Antimony (Sb)	2022/11/10	104	75 - 125	94	80 - 120	<0.20	ug/g	NC	30		
8334823	Acid Extractable Arsenic (As)	2022/11/10	107	75 - 125	95	80 - 120	<1.0	ug/g	11	30		
8334823	Acid Extractable Barium (Ba)	2022/11/10	NC	75 - 125	96	80 - 120	<0.50	ug/g	0.57	30		
8334823	Acid Extractable Beryllium (Be)	2022/11/10	108	75 - 125	98	80 - 120	<0.20	ug/g	11	30		
8334823	Acid Extractable Boron (B)	2022/11/10	105	75 - 125	99	80 - 120	<5.0	ug/g	NC	30		
8334823	Acid Extractable Cadmium (Cd)	2022/11/10	111	75 - 125	95	80 - 120	<0.10	ug/g	NC	30		
8334823	Acid Extractable Chromium (Cr)	2022/11/10	107	75 - 125	95	80 - 120	<1.0	ug/g	7.9	30		
8334823	Acid Extractable Cobalt (Co)	2022/11/10	108	75 - 125	93	80 - 120	<0.10	ug/g	6.7	30		
8334823	Acid Extractable Copper (Cu)	2022/11/10	105	75 - 125	97	80 - 120	<0.50	ug/g	0.96	30		
8334823	Acid Extractable Lead (Pb)	2022/11/10	108	75 - 125	103	80 - 120	<1.0	ug/g	0.36	30		
8334823	Acid Extractable Mercury (Hg)	2022/11/10	96	75 - 125	89	80 - 120	<0.050	ug/g	NC	30		
8334823	Acid Extractable Molybdenum (Mo)	2022/11/10	110	75 - 125	94	80 - 120	<0.50	ug/g	NC	30		
8334823	Acid Extractable Nickel (Ni)	2022/11/10	107	75 - 125	93	80 - 120	<0.50	ug/g	2.4	30		
8334823	Acid Extractable Selenium (Se)	2022/11/10	110	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
8334823	Acid Extractable Silver (Ag)	2022/11/10	111	75 - 125	97	80 - 120	<0.20	ug/g	NC	30		
8334823	Acid Extractable Thallium (Tl)	2022/11/10	109	75 - 125	101	80 - 120	<0.050	ug/g	12	30		
8334823	Acid Extractable Uranium (U)	2022/11/10	111	75 - 125	101	80 - 120	<0.050	ug/g	11	30		
8334823	Acid Extractable Vanadium (V)	2022/11/10	106	75 - 125	91	80 - 120	<5.0	ug/g	4.0	30		
8334823	Acid Extractable Zinc (Zn)	2022/11/10	109	75 - 125	98	80 - 120	<5.0	ug/g	1.9	30		
8334947	Acid Extractable Antimony (Sb)	2022/11/09	104	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8334947	Acid Extractable Arsenic (As)	2022/11/09	109	75 - 125	102	80 - 120	<1.0	ug/g	16	30		
8334947	Acid Extractable Barium (Ba)	2022/11/09	NC	75 - 125	101	80 - 120	<0.50	ug/g	1.6	30		
8334947	Acid Extractable Beryllium (Be)	2022/11/09	114	75 - 125	106	80 - 120	<0.20	ug/g	10	30		
8334947	Acid Extractable Boron (B)	2022/11/09	114	75 - 125	107	80 - 120	<5.0	ug/g	12	30		
8334947	Acid Extractable Cadmium (Cd)	2022/11/09	108	75 - 125	100	80 - 120	<0.10	ug/g	NC	30		
8334947	Acid Extractable Chromium (Cr)	2022/11/09	109	75 - 125	101	80 - 120	<1.0	ug/g	1.8	30		
8334947	Acid Extractable Cobalt (Co)	2022/11/09	106	75 - 125	99	80 - 120	<0.10	ug/g	1.8	30		
8334947	Acid Extractable Copper (Cu)	2022/11/09	104	75 - 125	102	80 - 120	<0.50	ug/g	0.013	30		
8334947	Acid Extractable Lead (Pb)	2022/11/09	105	75 - 125	99	80 - 120	<1.0	ug/g	2.1	30		
8334947	Acid Extractable Mercury (Hg)	2022/11/09	99	75 - 125	89	80 - 120	<0.050	ug/g	NC	30		
8334947	Acid Extractable Molybdenum (Mo)	2022/11/09	109	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
8334947	Acid Extractable Nickel (Ni)	2022/11/09	108	75 - 125	101	80 - 120	<0.50	ug/g	1.0	30		
8334947	Acid Extractable Selenium (Se)	2022/11/09	109	75 - 125	104	80 - 120	<0.50	ug/g	NC	30		
8334947	Acid Extractable Silver (Ag)	2022/11/09	108	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
8334947	Acid Extractable Thallium (Tl)	2022/11/09	106	75 - 125	100	80 - 120	<0.050	ug/g	8.3	30		
8334947	Acid Extractable Uranium (U)	2022/11/09	111	75 - 125	103	80 - 120	<0.050	ug/g	2.8	30		
8334947	Acid Extractable Vanadium (V)	2022/11/09	NC	75 - 125	101	80 - 120	<5.0	ug/g	3.6	30		
8334947	Acid Extractable Zinc (Zn)	2022/11/09	NC	75 - 125	100	80 - 120	<5.0	ug/g	22	30		
8335082	Hot Water Ext. Boron (B)	2022/11/10	83	75 - 125	105	75 - 125	<0.050	ug/g	23	40		
8335579	Available (CaCl ₂) pH	2022/11/09			100	97 - 103			2.0	N/A		
8335677	WAD Cyanide (Free)	2022/11/09	93	75 - 125	97	80 - 120	<0.01	ug/g	NC	35		
8335679	Chromium (VI)	2022/11/10	72	70 - 130	92	80 - 120	<0.18	ug/g	NC	35		
8335730	WAD Cyanide (Free)	2022/11/09	74 (1)	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
8335761	WAD Cyanide (Free)	2022/11/10	100	75 - 125	101	80 - 120	<0.01	ug/g	NC	35		
8336151	Chromium (VI)	2022/11/10	55 (2)	70 - 130	96	80 - 120	<0.18	ug/g	NC	35		
8336169	Chromium (VI)	2022/11/11	73	70 - 130	91	80 - 120	<0.18	ug/g	NC	35		
8337441	Benzene	2022/11/10			75	50 - 140	<0.020	ug/g	NC	50		
8337441	Ethylbenzene	2022/11/10			83	50 - 140	<0.020	ug/g	NC	50		
8337441	F1 (C6-C10) - BTEX	2022/11/10					<10	ug/g	NC	30		
8337441	F1 (C6-C10)	2022/11/10			86	80 - 120	<10	ug/g	NC	30		
8337441	o-Xylene	2022/11/10			81	50 - 140	<0.020	ug/g	NC	50		



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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8337441	p+m-Xylene	2022/11/10			80	50 - 140	<0.040	ug/g	NC	50		
8337441	Toluene	2022/11/10			74	50 - 140	<0.020	ug/g	NC	50		
8337441	Total Xylenes	2022/11/10					<0.040	ug/g	NC	50		
8337541	Benzene	2022/11/10			87	50 - 140	<0.020	ug/g	NC	50		
8337541	Ethylbenzene	2022/11/10			86	50 - 140	<0.020	ug/g	NC	50		
8337541	F1 (C6-C10) - BTEX	2022/11/10					<10	ug/g	NC	30		
8337541	F1 (C6-C10)	2022/11/10			86	80 - 120	<10	ug/g	NC	30		
8337541	o-Xylene	2022/11/10			90	50 - 140	<0.020	ug/g	NC	50		
8337541	p+m-Xylene	2022/11/10			93	50 - 140	<0.040	ug/g	NC	50		
8337541	Toluene	2022/11/10			85	50 - 140	<0.020	ug/g	NC	50		
8337541	Total Xylenes	2022/11/10					<0.040	ug/g	NC	50		
8337736	WAD Cyanide (Free)	2022/11/10	94	75 - 125	97	80 - 120	<0.01	ug/g	NC	35		
8337859	Available (CaCl2) pH	2022/11/10			100	97 - 103			0.15	N/A		
8337869	Available (CaCl2) pH	2022/11/10			100	97 - 103			1.1	N/A		
8337884	Available (CaCl2) pH	2022/11/10			100	97 - 103			0.48	N/A		
8338659	Chromium (VI)	2022/11/12	78	70 - 130	90	80 - 120	<0.18	ug/g	NC	35		
8338662	Chromium (VI)	2022/11/12	0 (2)	70 - 130	92	80 - 120	<0.18	ug/g	NC	35		
8340121	Leachable (SPLP) Antimony (Sb)	2022/11/11	104	80 - 120	103	80 - 120	<0.5	ug/L	NC	35	<0.5	ug/L
8340121	Leachable (SPLP) Arsenic (As)	2022/11/11	101	80 - 120	101	80 - 120	<1	ug/L	NC	35	<1	ug/L
8340121	Leachable (SPLP) Barium (Ba)	2022/11/11	97	80 - 120	97	80 - 120	<5	ug/L	NC	35	<5	ug/L
8340121	Leachable (SPLP) Beryllium (Be)	2022/11/11	102	80 - 120	103	80 - 120	<0.5	ug/L	NC	35	<0.5	ug/L
8340121	Leachable (SPLP) Boron (B)	2022/11/11	101	80 - 120	97	80 - 120	<10	ug/L	NC	35	<10	ug/L
8340121	Leachable (SPLP) Cadmium (Cd)	2022/11/11	100	80 - 120	100	80 - 120	<0.1	ug/L	NC	35	<0.1	ug/L
8340121	Leachable (SPLP) Chromium (Cr)	2022/11/11	94	80 - 120	94	80 - 120	<5	ug/L	NC	35	<5	ug/L
8340121	Leachable (SPLP) Cobalt (Co)	2022/11/11	99	80 - 120	100	80 - 120	<0.5	ug/L	NC	35	<0.5	ug/L
8340121	Leachable (SPLP) Copper (Cu)	2022/11/11	98	80 - 120	99	80 - 120	<1	ug/L	NC	35	<1	ug/L
8340121	Leachable (SPLP) Lead (Pb)	2022/11/11	102	80 - 120	103	80 - 120	<0.5	ug/L	NC	35	<0.5	ug/L
8340121	Leachable (SPLP) Molybdenum (Mo)	2022/11/11	96	80 - 120	98	80 - 120	<1	ug/L	NC	35	<1	ug/L
8340121	Leachable (SPLP) Nickel (Ni)	2022/11/11	99	80 - 120	98	80 - 120	<1	ug/L	NC	35	<1	ug/L
8340121	Leachable (SPLP) Selenium (Se)	2022/11/11	106	80 - 120	105	80 - 120	<2	ug/L	NC	35	<2	ug/L
8340121	Leachable (SPLP) Silver (Ag)	2022/11/11	96	80 - 120	97	80 - 120	<0.1	ug/L	NC	35	<0.1	ug/L



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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8340121	Leachable (SPLP) Thallium (Tl)	2022/11/11	102	80 - 120	104	80 - 120	<0.05	ug/L	NC	35	<0.05	ug/L
8340121	Leachable (SPLP) Uranium (U)	2022/11/11	103	80 - 120	105	80 - 120	<0.1	ug/L	NC	35	<0.1	ug/L
8340121	Leachable (SPLP) Vanadium (V)	2022/11/11	96	80 - 120	97	80 - 120	<1	ug/L	NC	35	<1	ug/L
8340121	Leachable (SPLP) Zinc (Zn)	2022/11/11	104	80 - 120	105	80 - 120	<5	ug/L	NC	35	<5	ug/L
8340410	a-Chlordane	2022/11/12	108	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40		
8340410	Aldrin	2022/11/12	107	50 - 130	89	50 - 130	<0.0020	ug/g	NC	40		
8340410	Aroclor 1242	2022/11/12					<0.015	ug/g	NC	40		
8340410	Aroclor 1248	2022/11/12					<0.015	ug/g	NC	40		
8340410	Aroclor 1254	2022/11/12					<0.015	ug/g	NC	40		
8340410	Aroclor 1260	2022/11/12					<0.015	ug/g	NC	40		
8340410	Dieldrin	2022/11/12	107	50 - 130	103	50 - 130	<0.0020	ug/g	NC	40		
8340410	Endosulfan I (alpha)	2022/11/12	80	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40		
8340410	Endosulfan II (beta)	2022/11/12	89	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40		
8340410	Endrin	2022/11/12	100	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40		
8340410	g-Chlordane	2022/11/12	80	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40		
8340410	Heptachlor epoxide	2022/11/12	96	50 - 130	89	50 - 130	<0.0020	ug/g	NC	40		
8340410	Heptachlor	2022/11/12	112	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40		
8340410	Hexachlorobenzene	2022/11/12	94	50 - 130	79	50 - 130	<0.0020	ug/g	NC	40		
8340410	Hexachlorobutadiene	2022/11/12	88	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40		
8340410	Hexachloroethane	2022/11/12	86	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40		
8340410	Lindane	2022/11/12	99	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40		
8340410	Methoxychlor	2022/11/12	123	50 - 130	122	50 - 130	<0.0050	ug/g	NC	40		
8340410	o,p-DDD	2022/11/12	116	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40		
8340410	o,p-DDE	2022/11/12	122	50 - 130	115	50 - 130	<0.0020	ug/g	NC	40		
8340410	o,p-DDT	2022/11/12	112	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		
8340410	p,p-DDD	2022/11/12	112	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
8340410	p,p-DDE	2022/11/12	102	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40		
8340410	p,p-DDT	2022/11/12	127	50 - 130	110	50 - 130	<0.0020	ug/g	NC	40		
8342144	F2 (C10-C16 Hydrocarbons)	2022/11/13	92	60 - 130	86	80 - 120	<10	ug/g	NC	30		
8342144	F3 (C16-C34 Hydrocarbons)	2022/11/13	96	60 - 130	92	80 - 120	<50	ug/g	NC	30		
8342144	F4 (C34-C50 Hydrocarbons)	2022/11/13	101	60 - 130	95	80 - 120	<50	ug/g	NC	30		



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Bureau Veritas Job #: C2W4314
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QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8342149	F2 (C10-C16 Hydrocarbons)	2022/11/13	105	60 - 130	102	80 - 120	<10	ug/g	NC	30		
8342149	F3 (C16-C34 Hydrocarbons)	2022/11/13	106	60 - 130	103	80 - 120	<50	ug/g	NC	30		
8342149	F4 (C34-C50 Hydrocarbons)	2022/11/13	109	60 - 130	105	80 - 120	<50	ug/g	NC	30		
8342845	a-Chlordane	2022/11/14	98	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40		
8342845	Aldrin	2022/11/14	98	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40		
8342845	Aroclor 1242	2022/11/14					<0.015	ug/g	NC	40		
8342845	Aroclor 1248	2022/11/14					<0.015	ug/g	NC	40		
8342845	Aroclor 1254	2022/11/14					<0.015	ug/g	NC	40		
8342845	Aroclor 1260	2022/11/14					<0.015	ug/g	NC	40		
8342845	Dieldrin	2022/11/14	110	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
8342845	Endosulfan I (alpha)	2022/11/14	112	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
8342845	Endosulfan II (beta)	2022/11/14	105	50 - 130	98	50 - 130	<0.0020	ug/g	NC	40		
8342845	Endrin	2022/11/14	112	50 - 130	105	50 - 130	<0.0020	ug/g	NC	40		
8342845	g-Chlordane	2022/11/14	99	50 - 130	93	50 - 130	<0.0020	ug/g	NC	40		
8342845	Heptachlor epoxide	2022/11/14	109	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
8342845	Heptachlor	2022/11/14	116	50 - 130	103	50 - 130	<0.0020	ug/g	NC	40		
8342845	Hexachlorobenzene	2022/11/14	89	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40		
8342845	Hexachlorobutadiene	2022/11/14	93	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
8342845	Hexachloroethane	2022/11/14	63	50 - 130	73	50 - 130	<0.0020	ug/g	NC	40		
8342845	Lindane	2022/11/14	97	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40		
8342845	Methoxychlor	2022/11/14	172 (3)	50 - 130	127	50 - 130	<0.0050	ug/g	NC	40		
8342845	o,p-DDD	2022/11/14	125	50 - 130	119	50 - 130	<0.0020	ug/g	NC	40		
8342845	o,p-DDE	2022/11/14	106	50 - 130	97	50 - 130	<0.0020	ug/g	NC	40		
8342845	o,p-DDT	2022/11/14	144 (3)	50 - 130	125	50 - 130	<0.0020	ug/g	NC	40		
8342845	p,p-DDD	2022/11/14	116	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40		
8342845	p,p-DDE	2022/11/14	115	50 - 130	107	50 - 130	<0.0020	ug/g	NC	40		
8342845	p,p-DDT	2022/11/14	128	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		
8342879	F2 (C10-C16 Hydrocarbons)	2022/11/14	104	60 - 130	102	80 - 120	<10	ug/g	NC	30		
8342879	F3 (C16-C34 Hydrocarbons)	2022/11/14	105	60 - 130	105	80 - 120	<50	ug/g	9.6	30		
8342879	F4 (C34-C50 Hydrocarbons)	2022/11/14	100	60 - 130	106	80 - 120	<50	ug/g	90 (4)	30		



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15

QUALITY ASSURANCE REPORT(CONT'D)

Golder Associates Ltd
Client Project #: 20146060
Sampler Initials: SA

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8345738	F4G-sg (Grav. Heavy Hydrocarbons)	2022/11/15	99	65 - 135	102	65 - 135	<100	ug/g	4.3	50		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.

(3) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(4) F2-F4 Analysis: Duplicate results exceeded RPD acceptance criteria for flagged analytes. The sample extract was reanalyzed with the same results. This is likely due to sample heterogeneity.



BUREAU
VERITAS

Bureau Veritas Job #: C2W4314

Report Date: 2022/11/15

Golder Associates Ltd

Client Project #: 20146060

Sampler Initials: SA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



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Page 1 of 4

Work Order

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:																																																																																																									
Company Name: #2292 Golder Associates Ltd Attention: Accounts Payable Address: 100 Scotia Crt Whitby ON L1N 8Y6 Tel: (905) 723-2727 Fax: (905) 723-2182 Email: gld.canadaaccounts payable@wsp.com		Company Name: Golder Attention: Kevan Browne Address: Tel: (905) 723-5491 Ext: 6677 Fax: (905) 723-2182 Email: Kevan_Browne@golder.com		Quotation #: C20239 P.O. #: 20146060 Project: Project Name: Site #: Sampled By: Sana Asad		Bureau Veritas Job #: 905425 Bottle Order #: C#905425-01-01 COC #: Ankita Bhalla																																																																																																									
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Sana Asad		22/11/3	2:30	(Anmol)		22/11/4	14:44		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No																																																																																																		
<p>UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COCs-TERMS-AND-CONDITIONS.</p> <p>IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p> <p>SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.</p>								<p>01/3, 03/3, 11/1</p> <p>SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS</p> <p>White: Bureau Veritas Yellow: Client</p>																																																																																																							

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:				Laboratory Use Only:					
Company Name: #2292 Golder Associates Ltd Attention: Accounts Payable Address: 100 Scotia Crt Whitby ON L1N 8Y6 Tel: (905) 723-2727 Fax: (905) 723-2182 Email: gld.canadaaccountspayableinvoices@wsp.com		Company Name: Golder Attention: Kevan Browne Address: _____ Tel: (905) 723-5491 Ext: 6677 Fax: (905) 723-2182 Email: Kevan_Browne@golder.com		Quotation #:	C20239	P.O. #:	20146060	Site #:	Sana Asad	Bureau Veritas Job #:	Bottle Order #:		
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY													
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Include Criteria on Certificate of Analysis (Y/N)? _____													
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle):	Metals / Hg / Cr VI	O Reg 153 PHCs, BTEX/F1-F4	O Reg 153 Metals & Inorganics Pg	O Reg 153 OC Pesticides	O Reg 406 Excess Soil SPLP Metals	ORP + pH	Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
1	TP3	Nov 2/22	1:05			X	X	X			X		
2	TP4-1		1:15									3	
3	TP4-2		1:15									3	
4	TP5		1:30									3	
5	TP6		1:40									4	
6	TP7		1:55									3	
7	TP8-1		2:05									3	
8	TP8-2		2:05									3	
9	Dup 2		1:00									3	
10	TP9	Nov 3/22	9:40			X	X	X		X		3	
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Sana Asad		02/11/23	2:30	See page 1					Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CO-C-TERMS-AND-CONDITIONS.													
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White: Bureau Veritas Yellow: Client													

Bureau Veritas Canada 1/2016 Rev



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CHAIN OF CUSTODY RECORD

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Include Criteria on Certificate of Analysis (Y/N)?						Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.																																																																																									
Sample Barcode Label		Sample (Location) Identification		Date Sampled	Time Sampled	Matrix	Job Specific Rush TAT (If applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)																																																																																								
TP10-1		Nov 3/22		9:55	S		# of Bottles Comments																																																																																								
TP10-2				10:00																																																																																											
TP11				10:15																																																																																											
TP12				10:30																																																																																											
TP13				12:30																																																																																											
TP14-1				12:15																																																																																											
TP14-2				12:20																																																																																											
TP15-1				11:45																																																																																											
TP15-2				11:50																																																																																											
TP16-1				11:15																																																																																											
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only																																																																																						
Sana Asad		22/11/13	2:30	Sana Asad					Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No																																																																																		
* UNLESS OTHERWISE AGREED IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CO-C-TERMS-AND-CONDITIONS. * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCOS.																																																																																															
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS White: Bureau Veritas Yellow: Client																																																																																															

Bureau Veritas Canada (2019) Inc.



Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Page 4 of 4

CHAIN OF CUSTODY RECORD

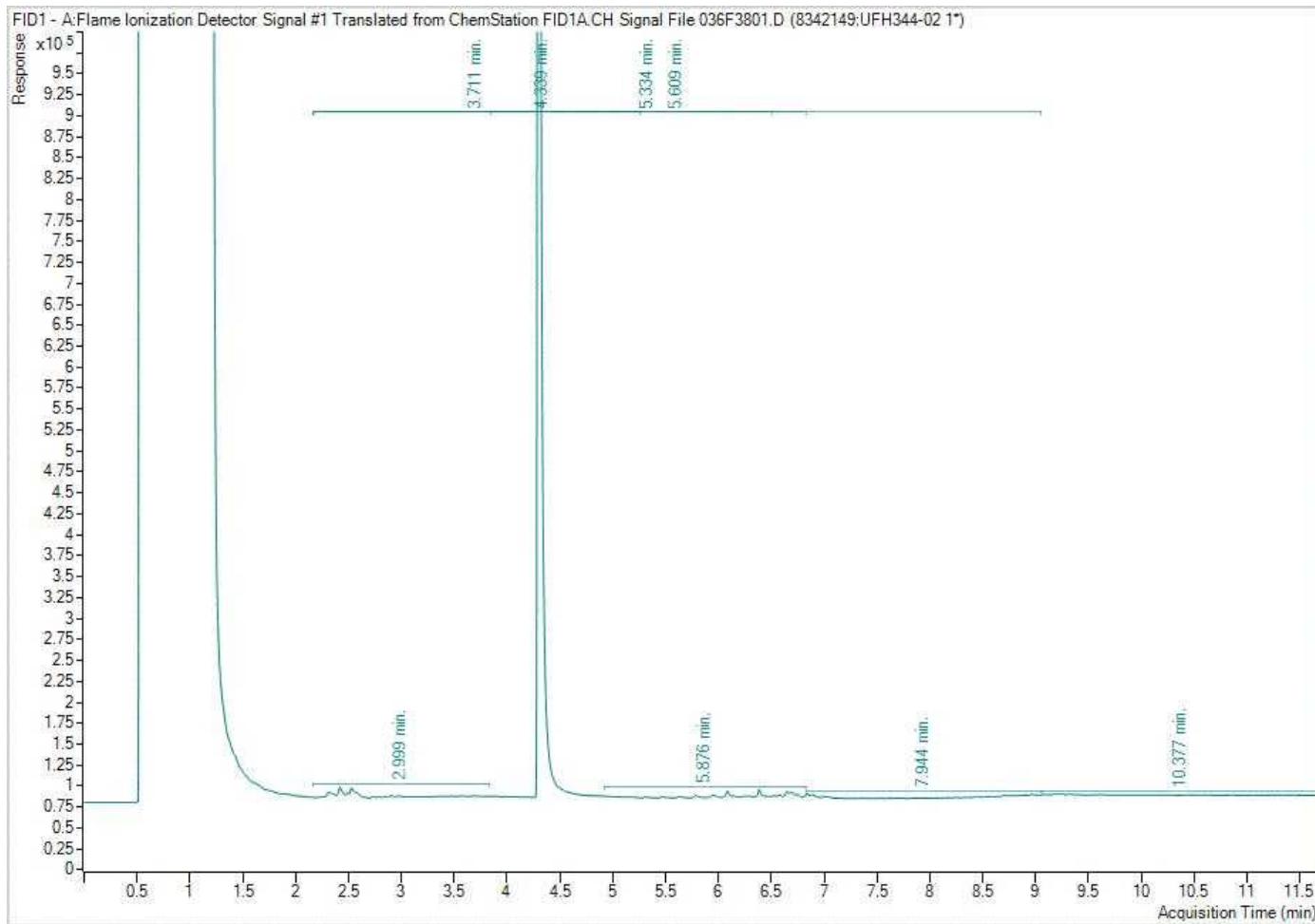
INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:						
Company Name: #2292 Golder Associates Ltd Attention: Accounts Payable Address: 100 Scotia Cr Whitby ON L1N 8Y6 Tel: (905) 723-2727 Fax: (905) 723-2182 Email: gld.canadaaccounts payable@wsp.com		Company Name: Golder Attention: Kevan Browne Address: Tel: (905) 723-5491 Ext: 6677 Fax: (905) 723-2182 Email: Kevan_Browne@golder.com		Quotation #: C20239 P.O. #: 20146060 Project: Project Name: Site #: Sampled By: Song Asad		Bureau Veritas Job #:  905425 COC #: Project Manager:  C#905425-03-01 Ankita Bhalla						
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY												
Regulation 153 (2011) <input checked="" type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input checked="" type="checkbox"/> For RSC <input type="checkbox"/> Table _____		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558. <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC) Field Filtered (please circle): Metals / Hg Cr VI O Reg 153 PHC& BTE/F1-F4 O Reg 153 Metals & Inorganics Pkg O Reg 153 OC Pesticides O Reg 406 Excess Soil SPLP Metals ORP + pH						
Include Criteria on Certificate of Analysis (Y/N)? _____												
1	Sample Barcode Label TP16-2	Sample (Location) Identification NOV 3, 22	Date Sampled 11:20	Time Sampled 11:20	Matrix S	X X X	X					
2	TP17					↓	3					
3	TP18					↓	3					
4	Dup 3					↓	3					
5												
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10												
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Song Asad		22/11/22	2:30	See page 1				Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CO-C-TERMS-AND-CONDITIONS . * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs .												
White: Bureau Veritas Yellow: Client SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS												

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH344

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP19

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

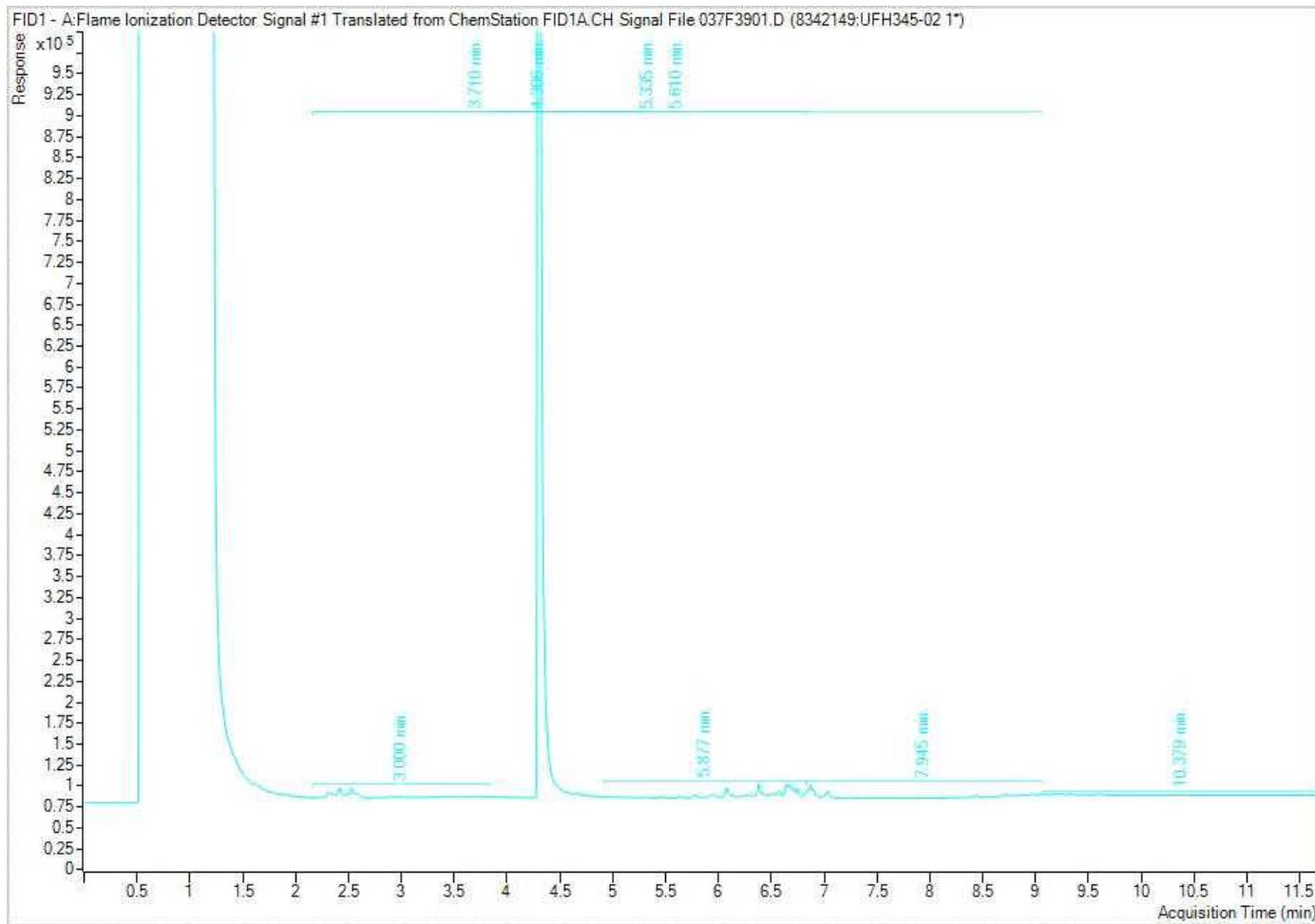


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH345

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP20

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

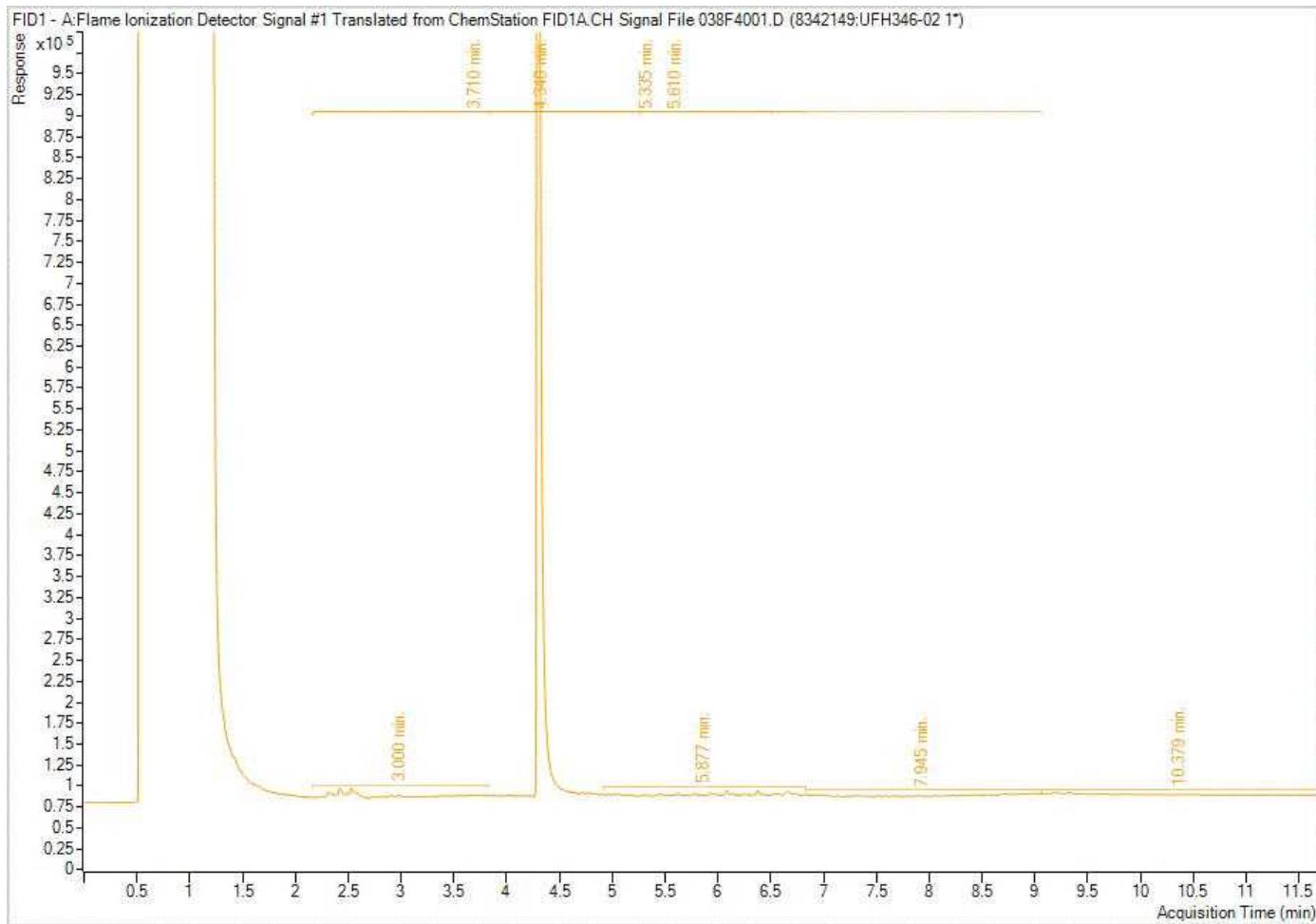


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH346

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP21

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

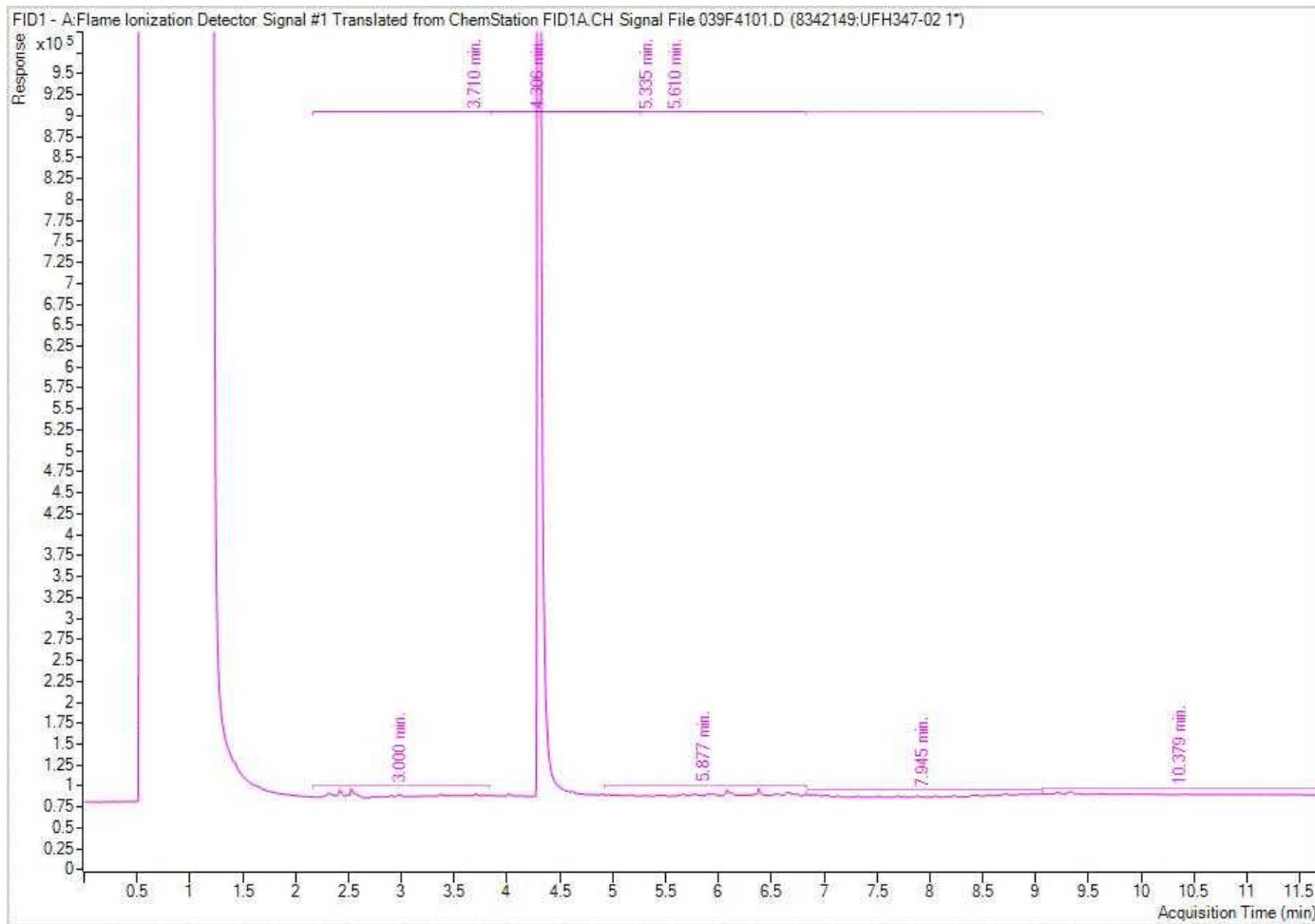


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH347

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP22

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

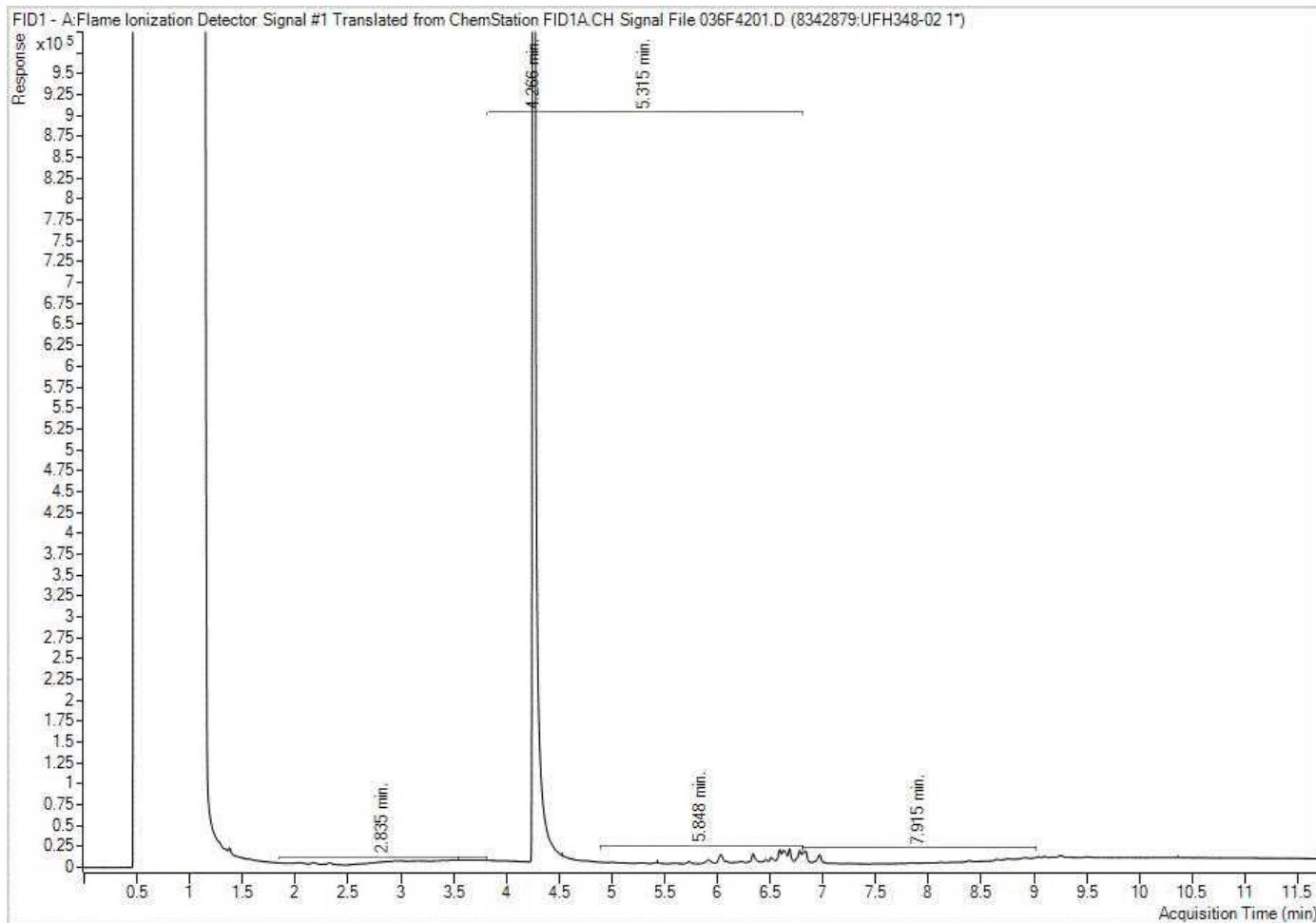


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH348

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP23

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

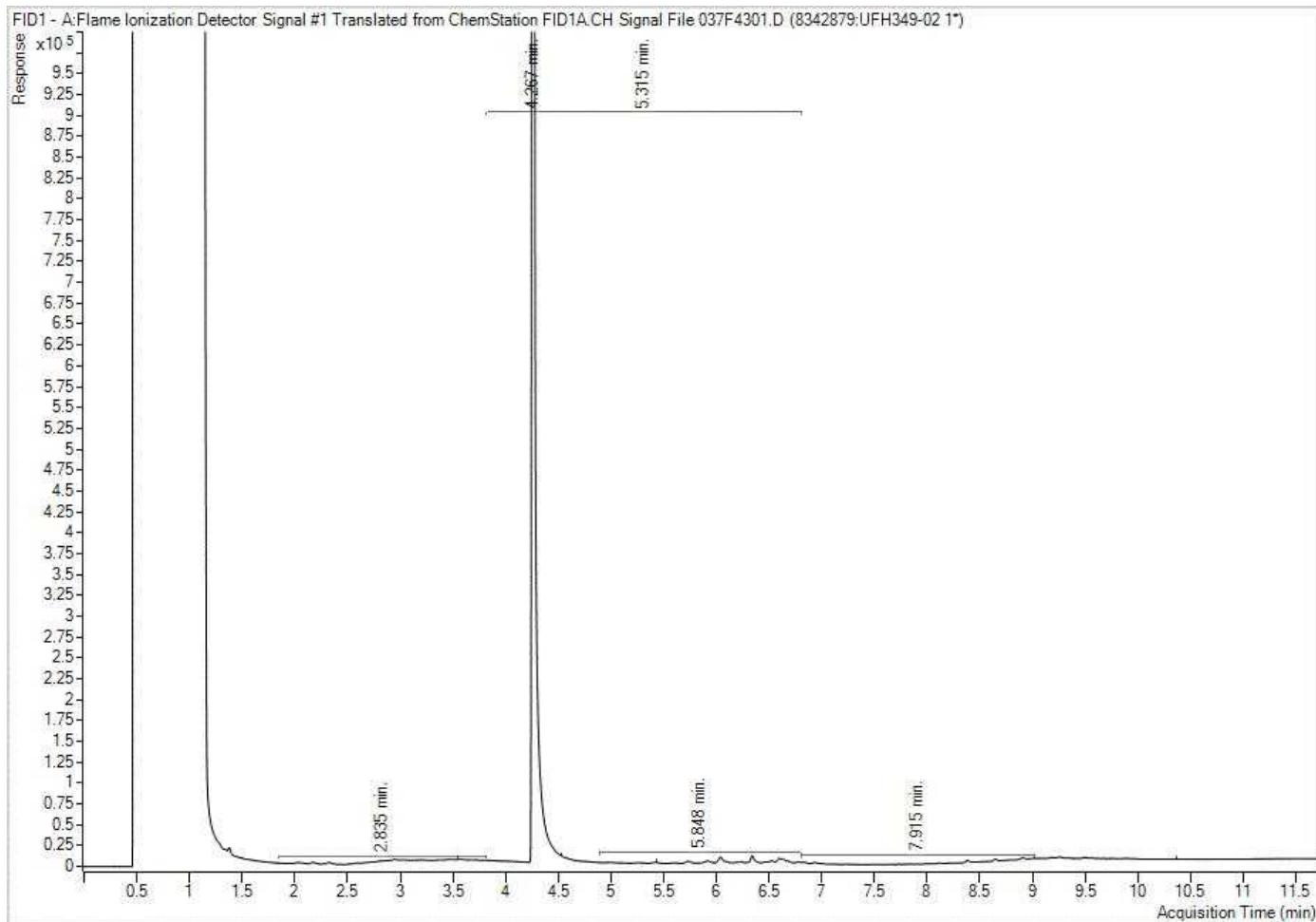


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH349

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP24

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

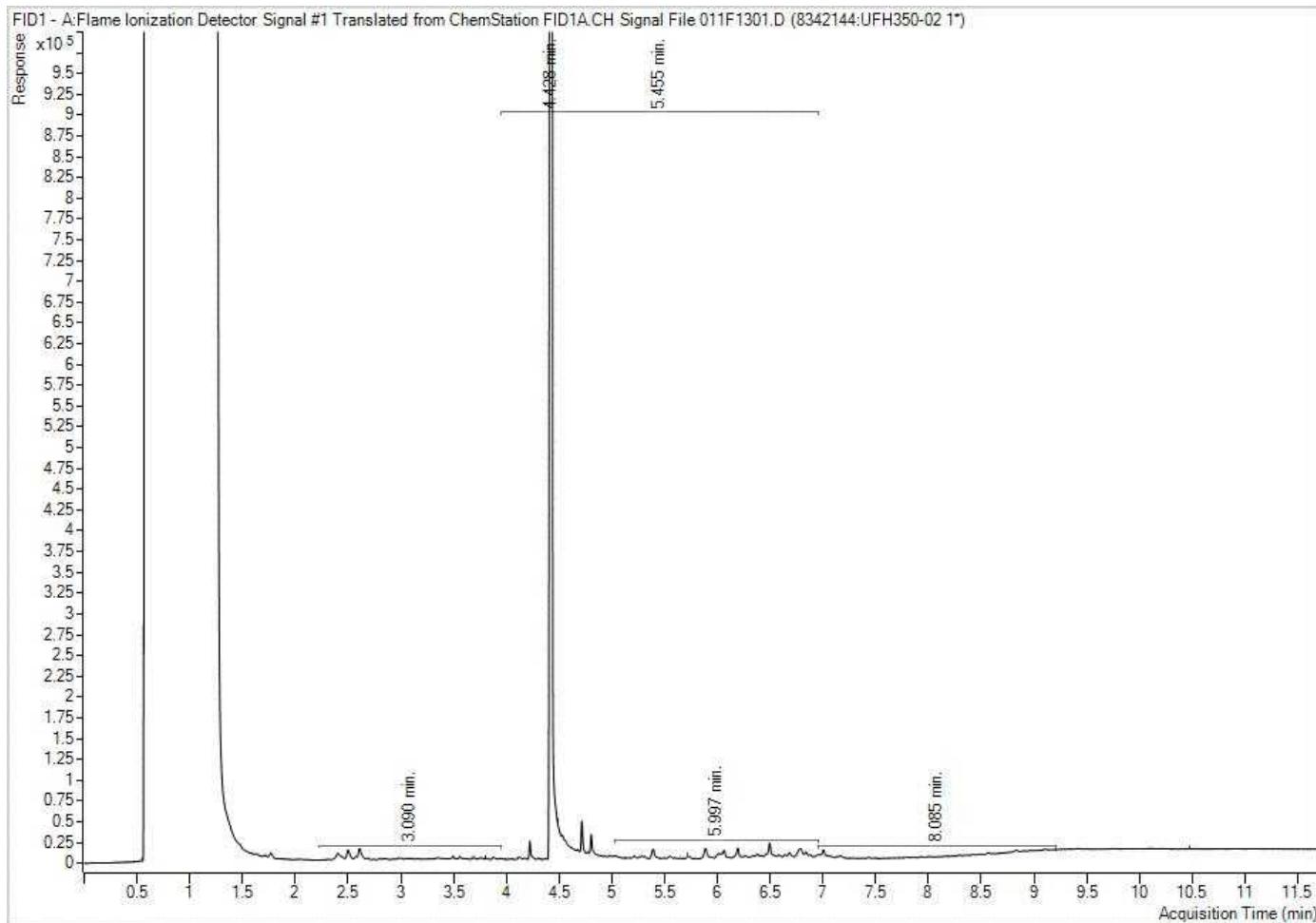


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH350

Golder Associates Ltd
Client Project #: 20146060
Client ID: DUP1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

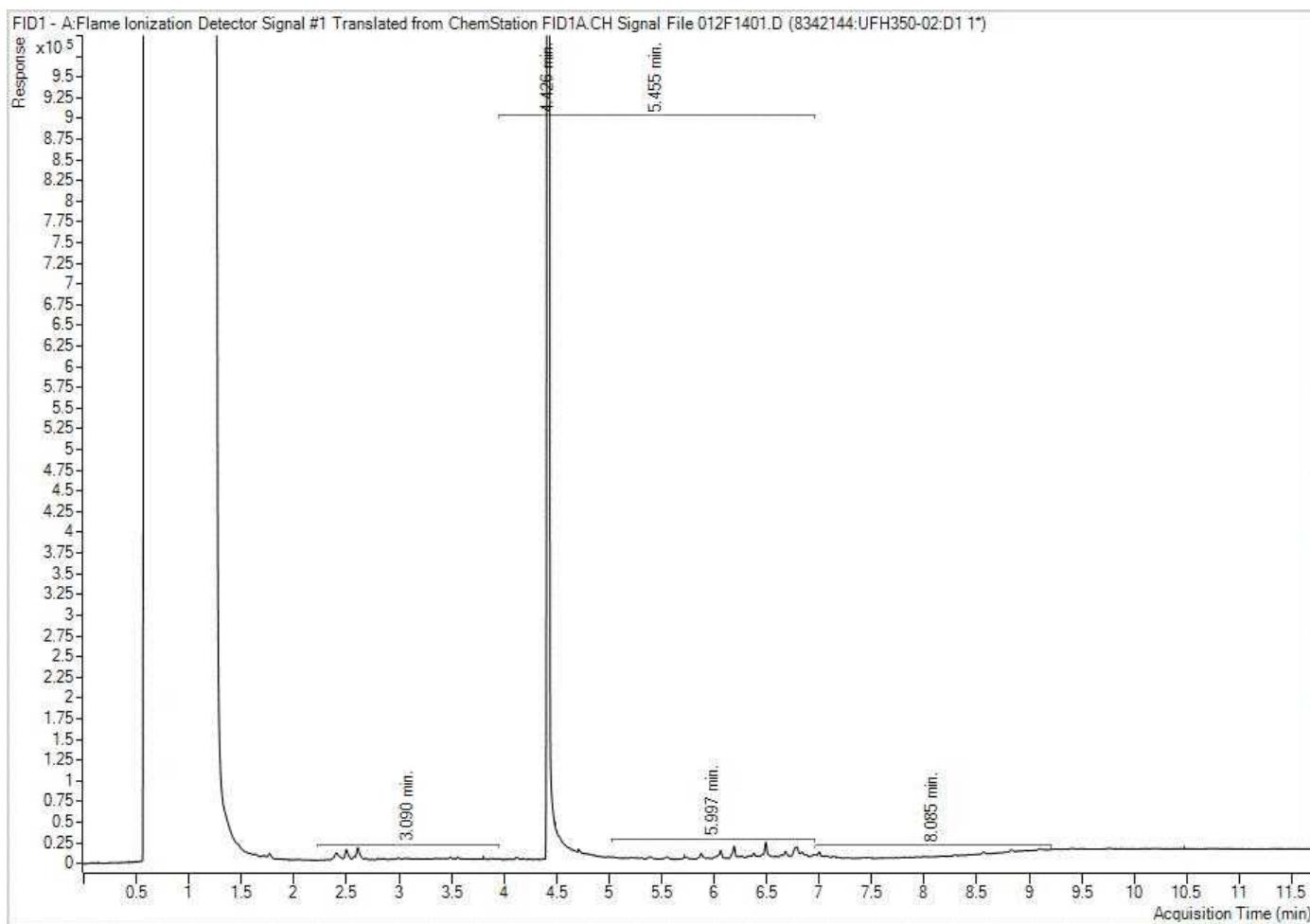


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH350 Lab-
Dup

Golder Associates Ltd
Client Project #: 20146060
Client ID: DUP1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

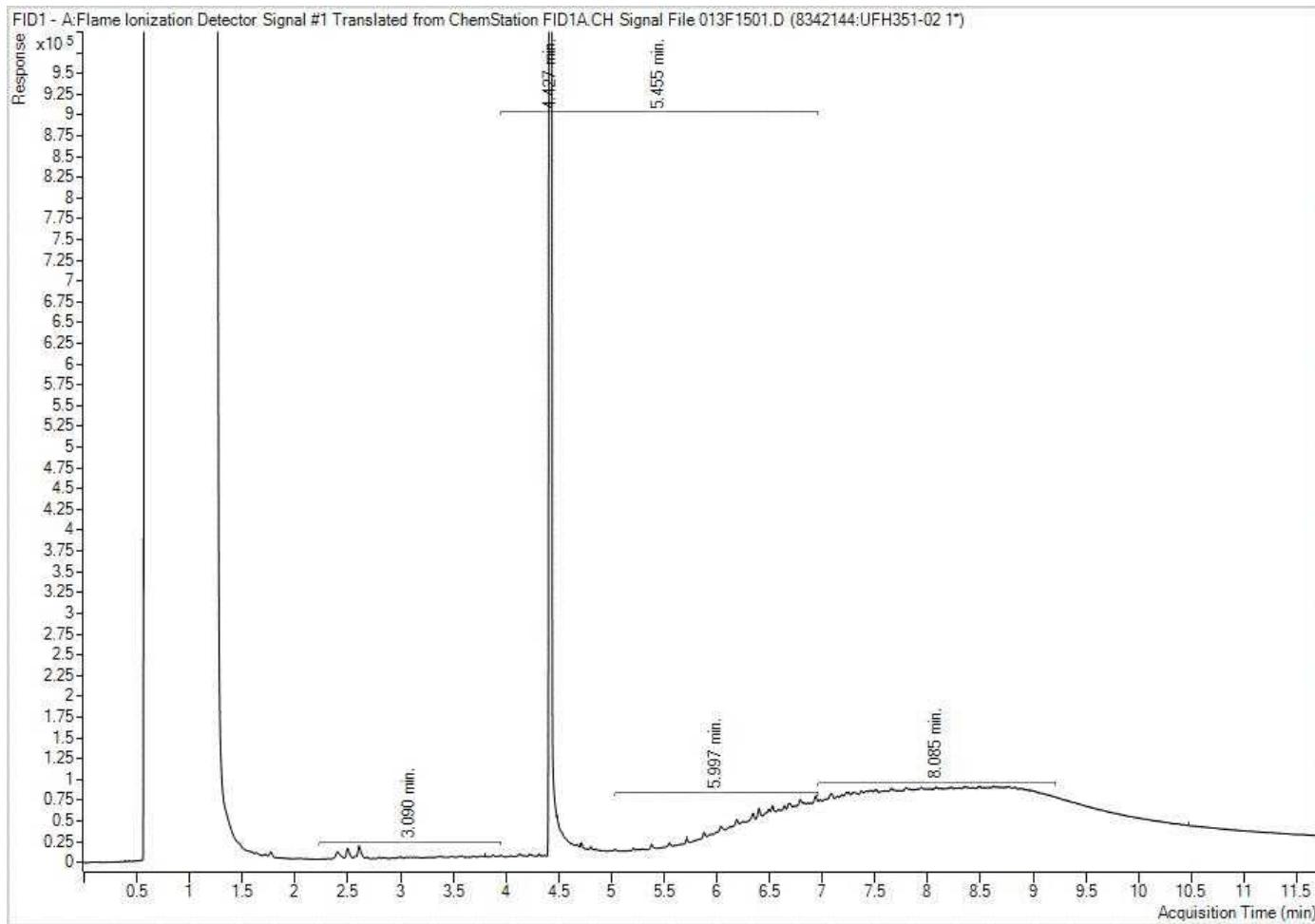


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH351

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP1-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

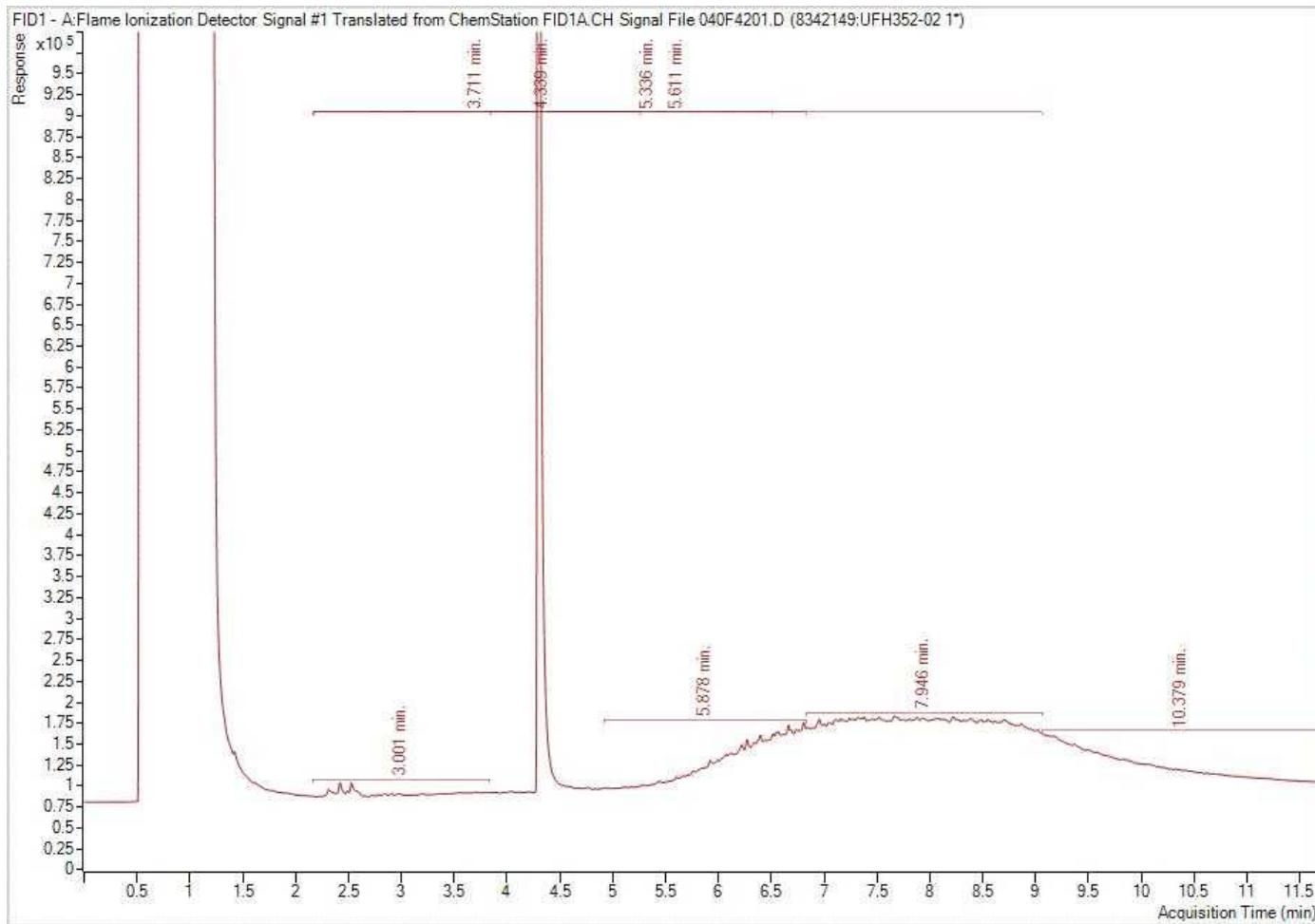


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH352

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP1-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

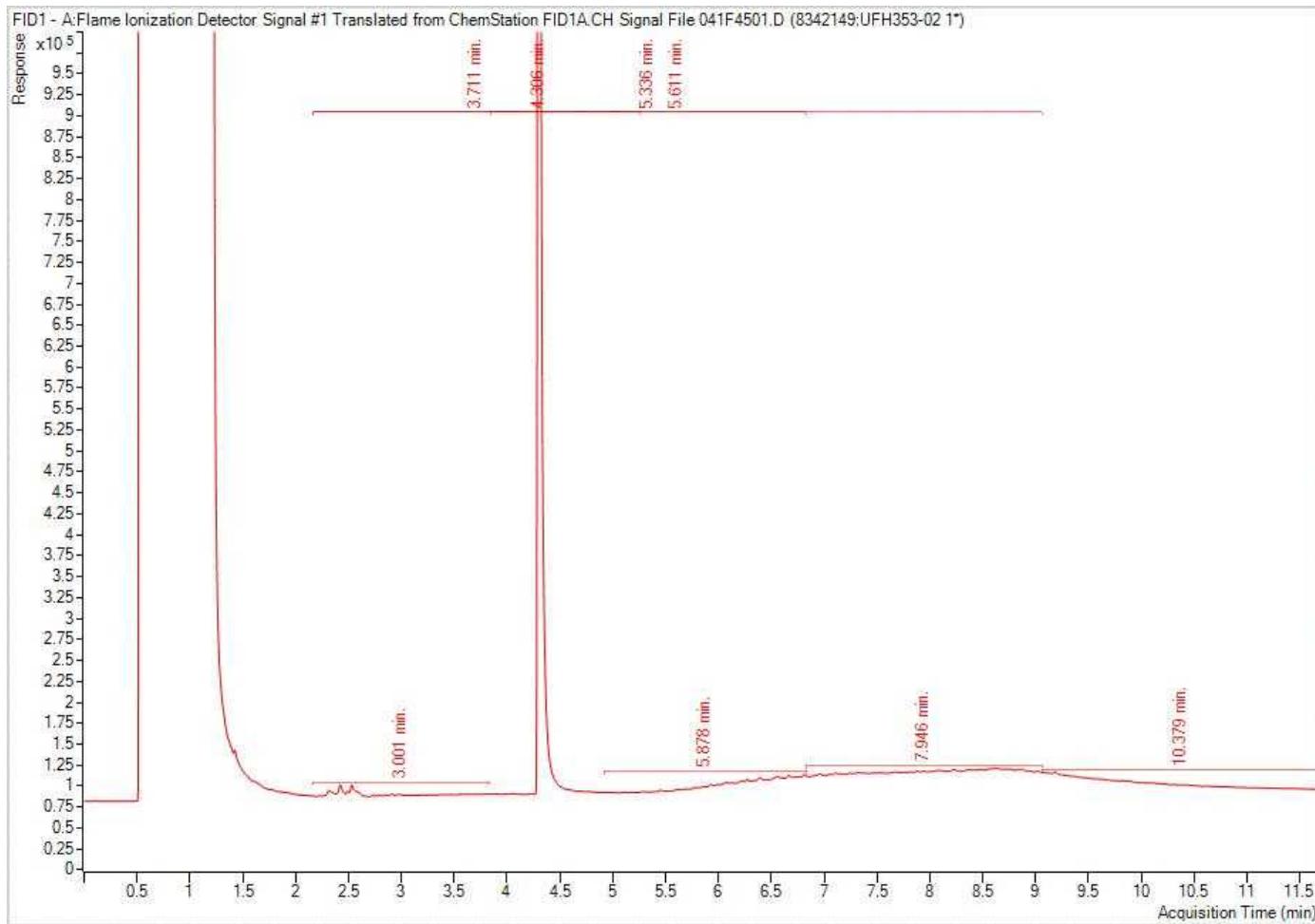


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH353

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

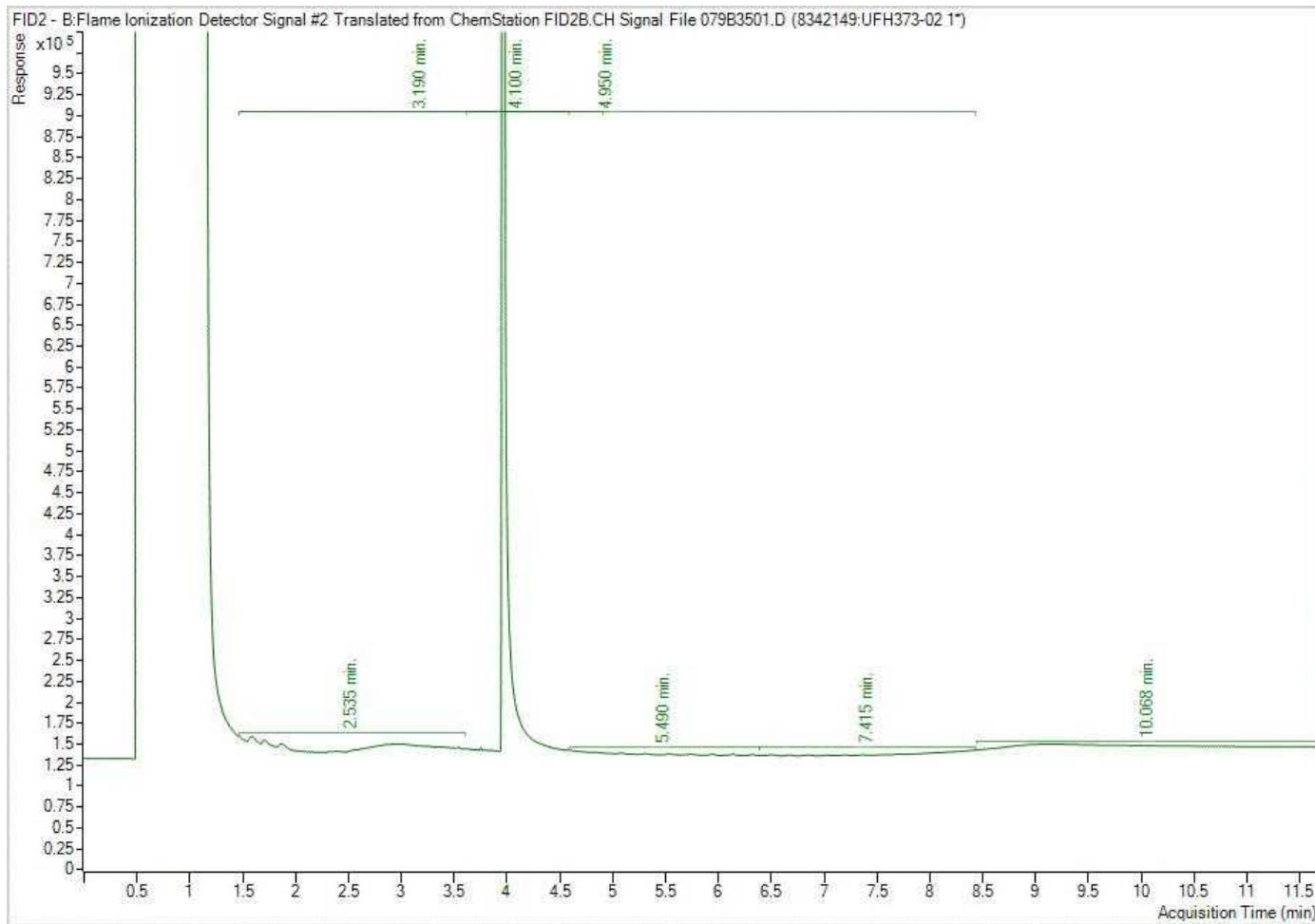


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH373

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

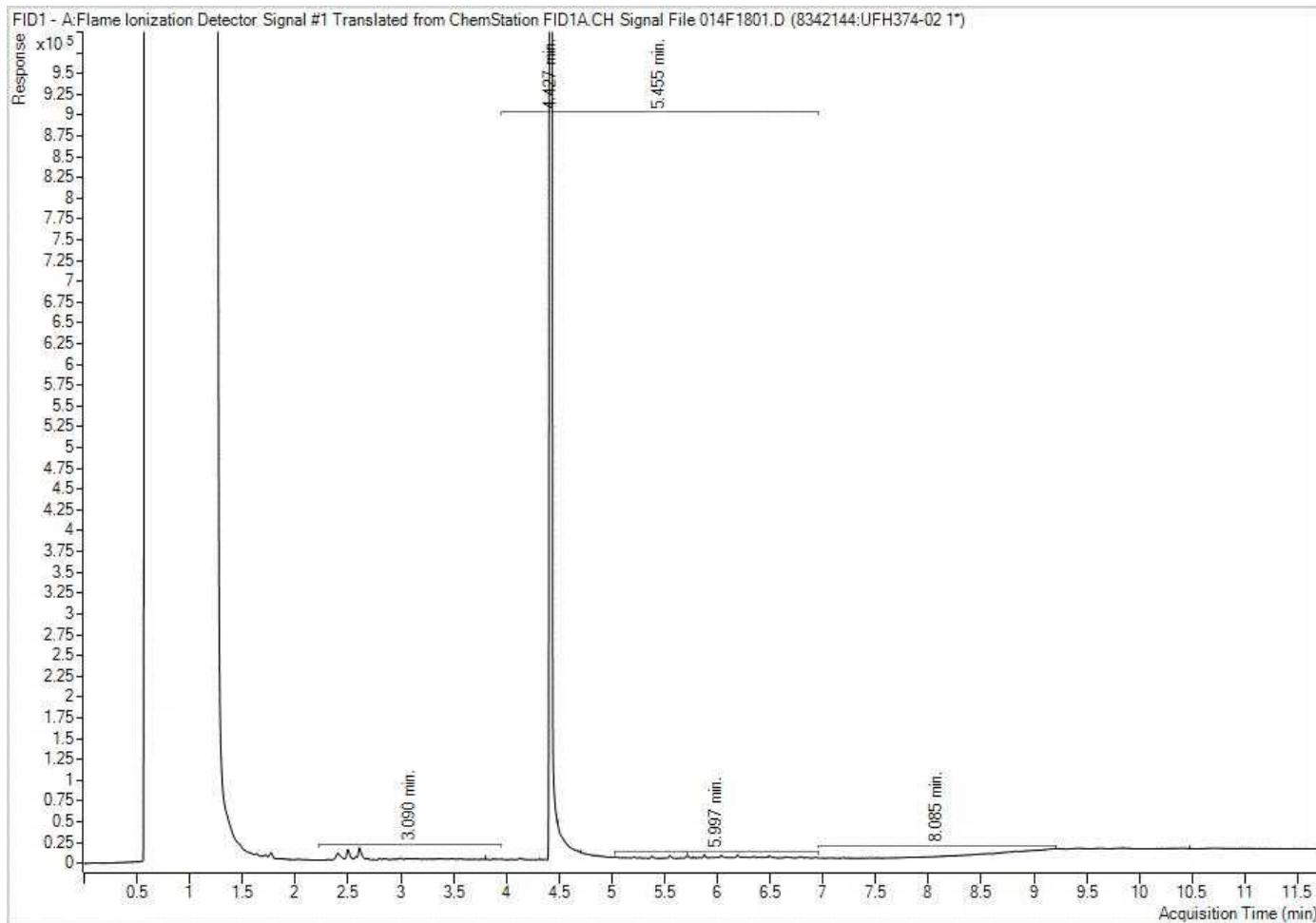


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH374

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP4-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

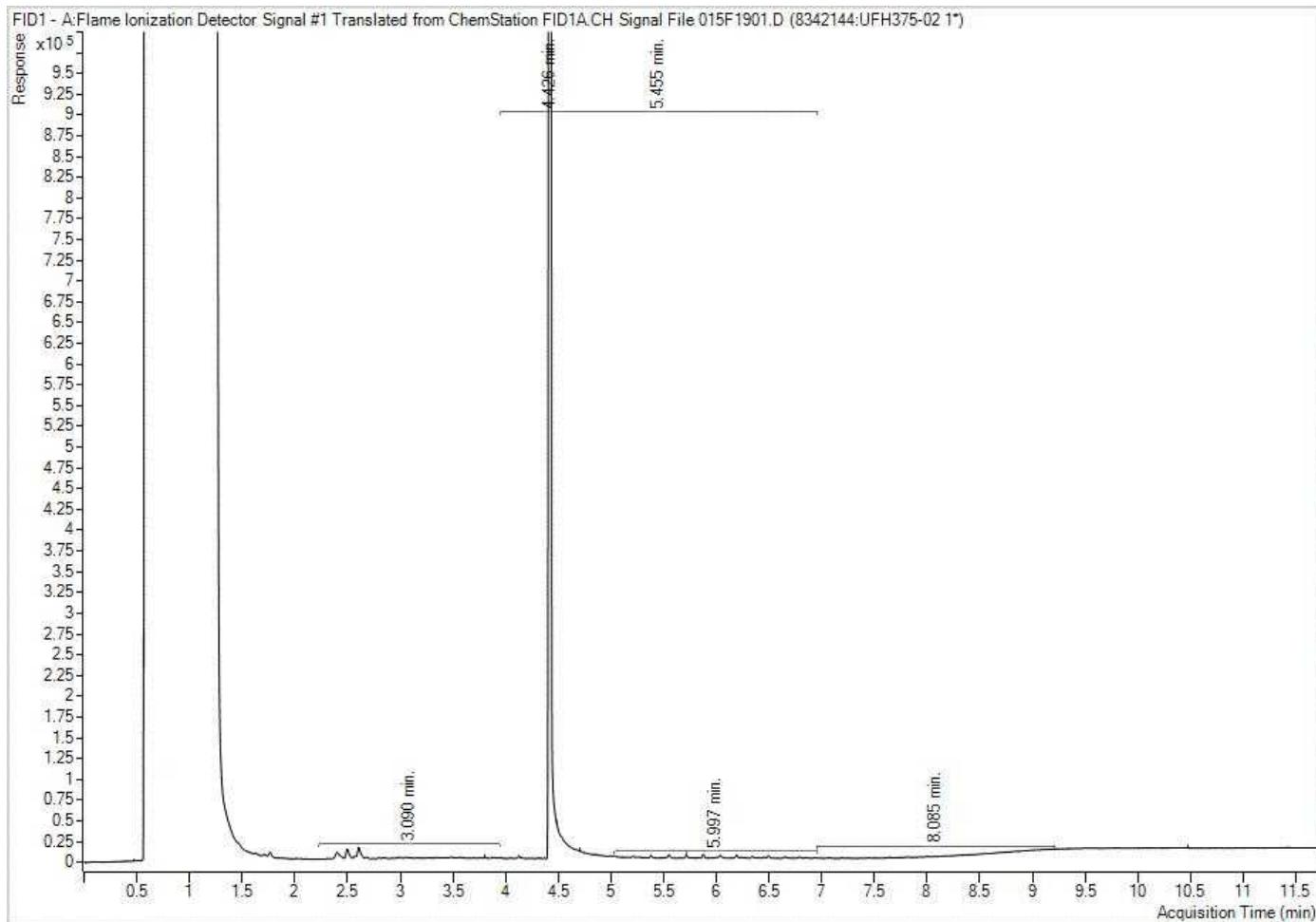


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH375

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP4-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

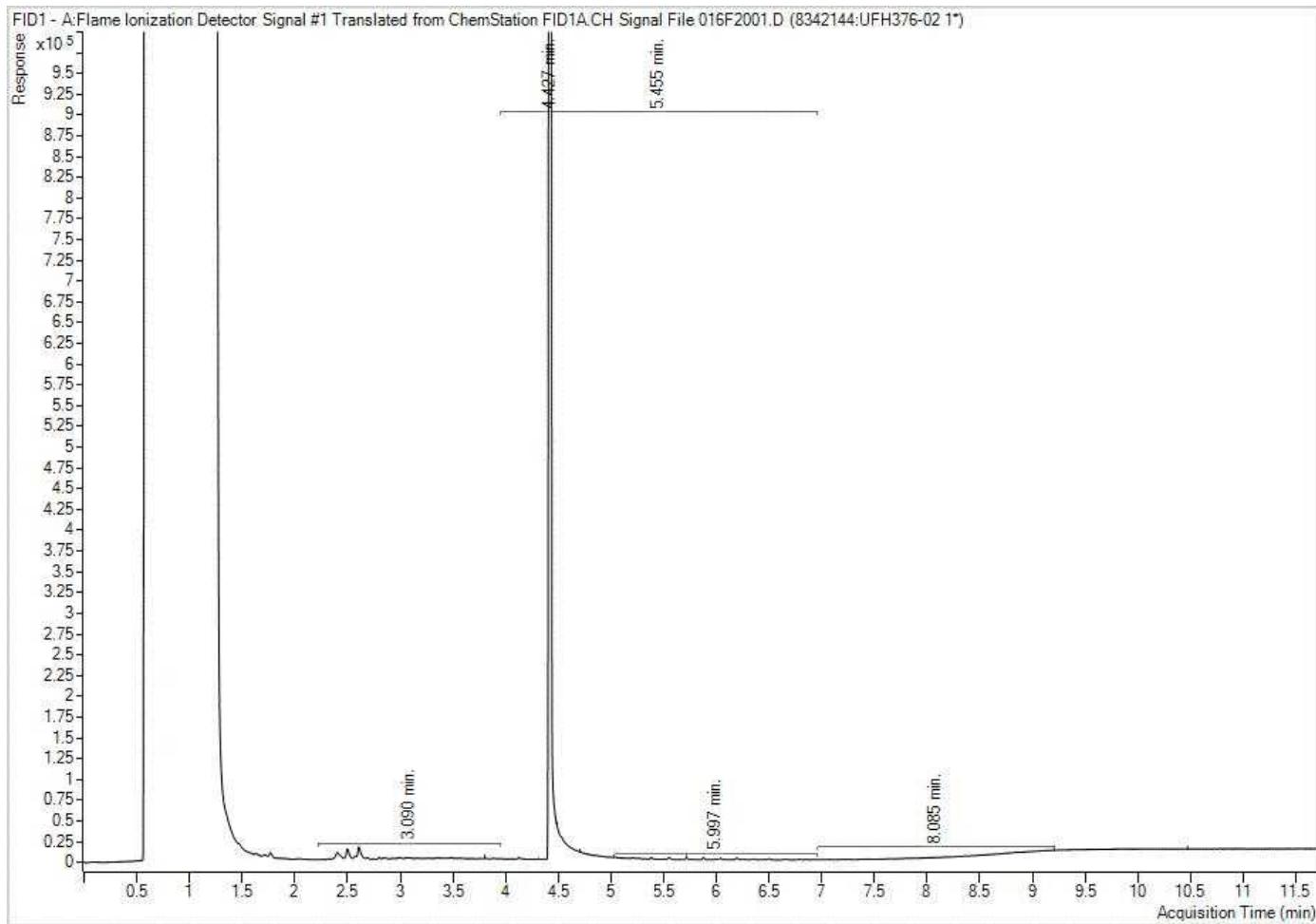


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH376

Golder Associates Ltd
Client Project #: 20146060
Client ID: TPS

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

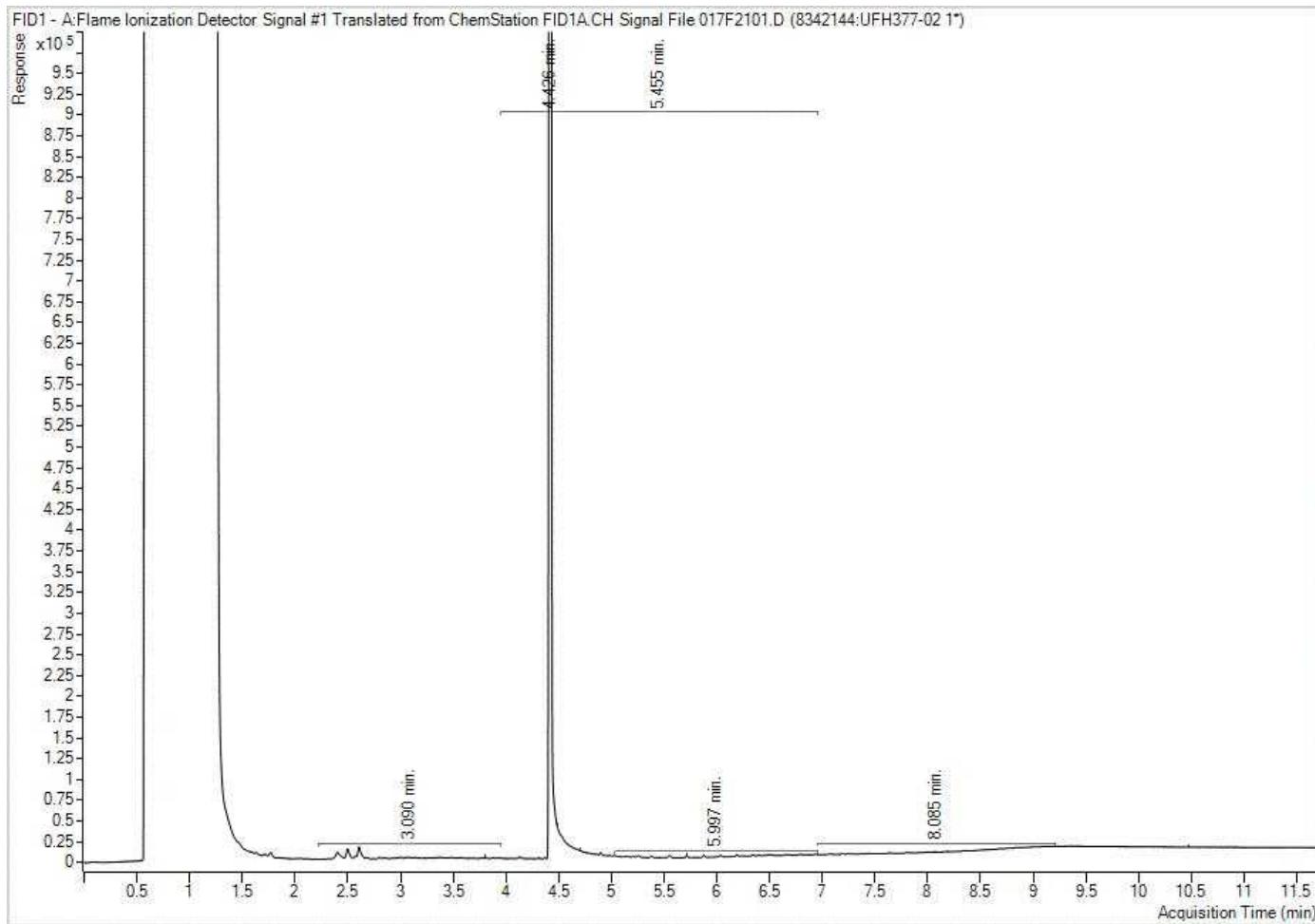


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH377

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP6

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

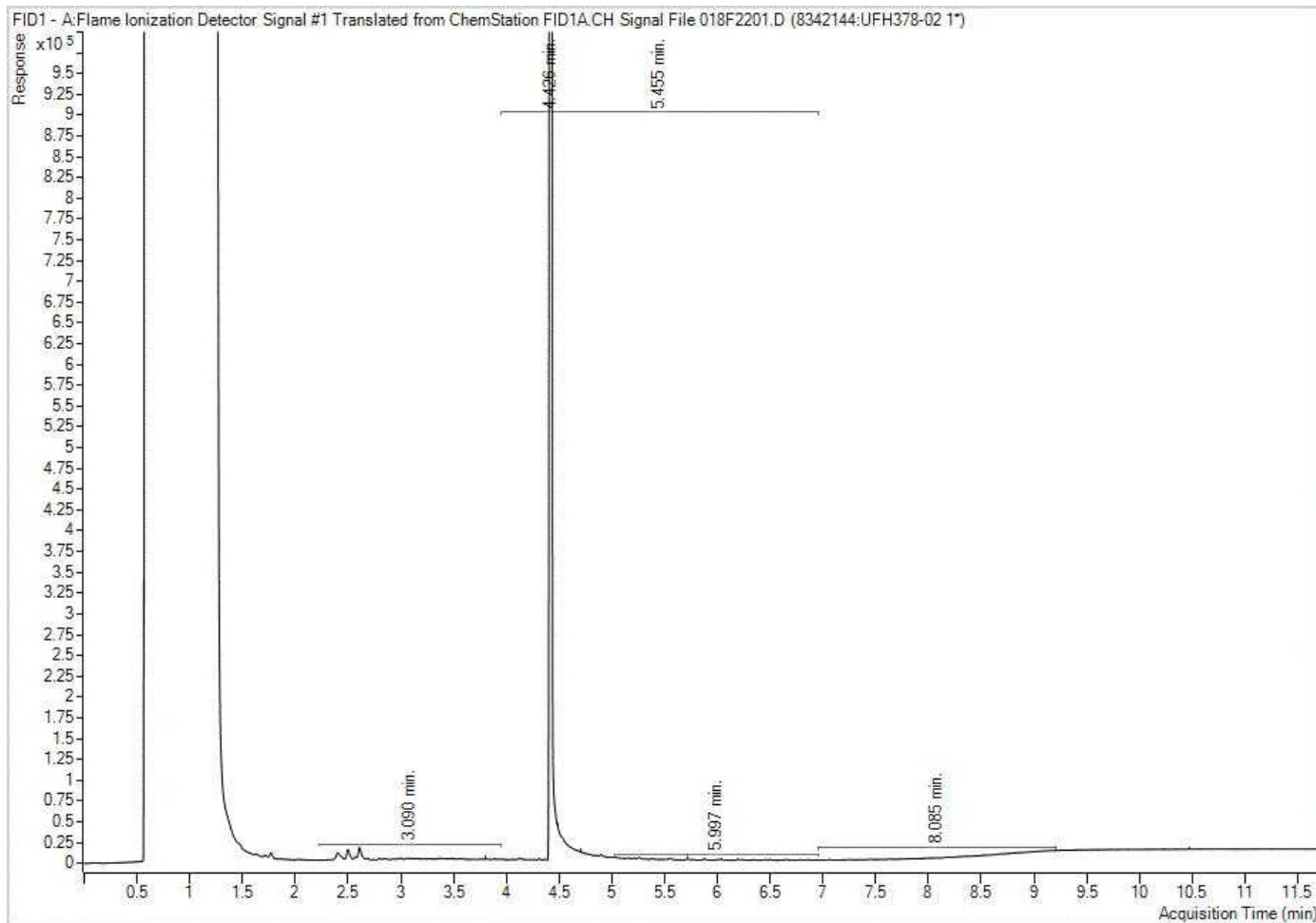


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH378

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

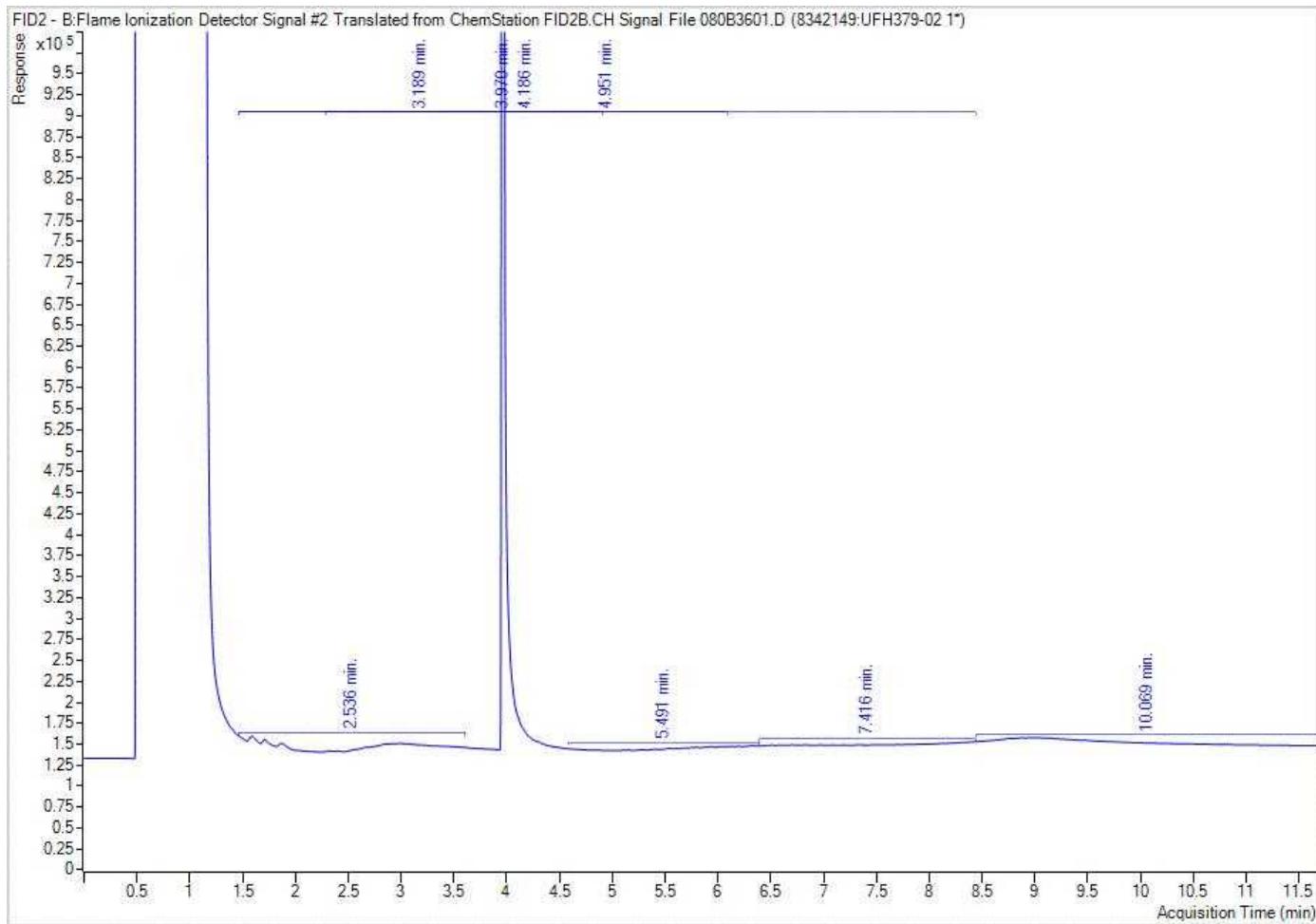


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH379

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP8-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

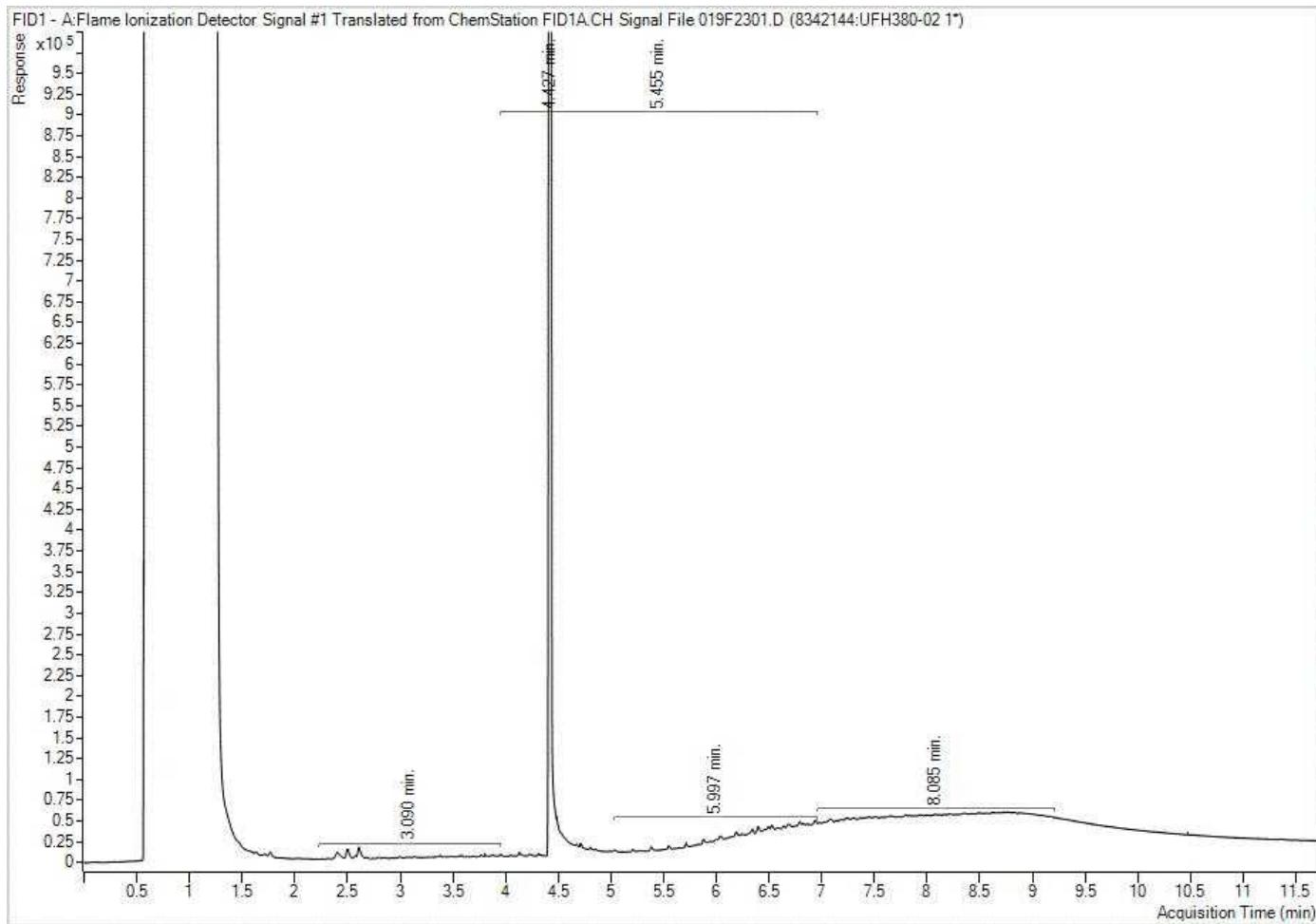


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH380

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP8-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

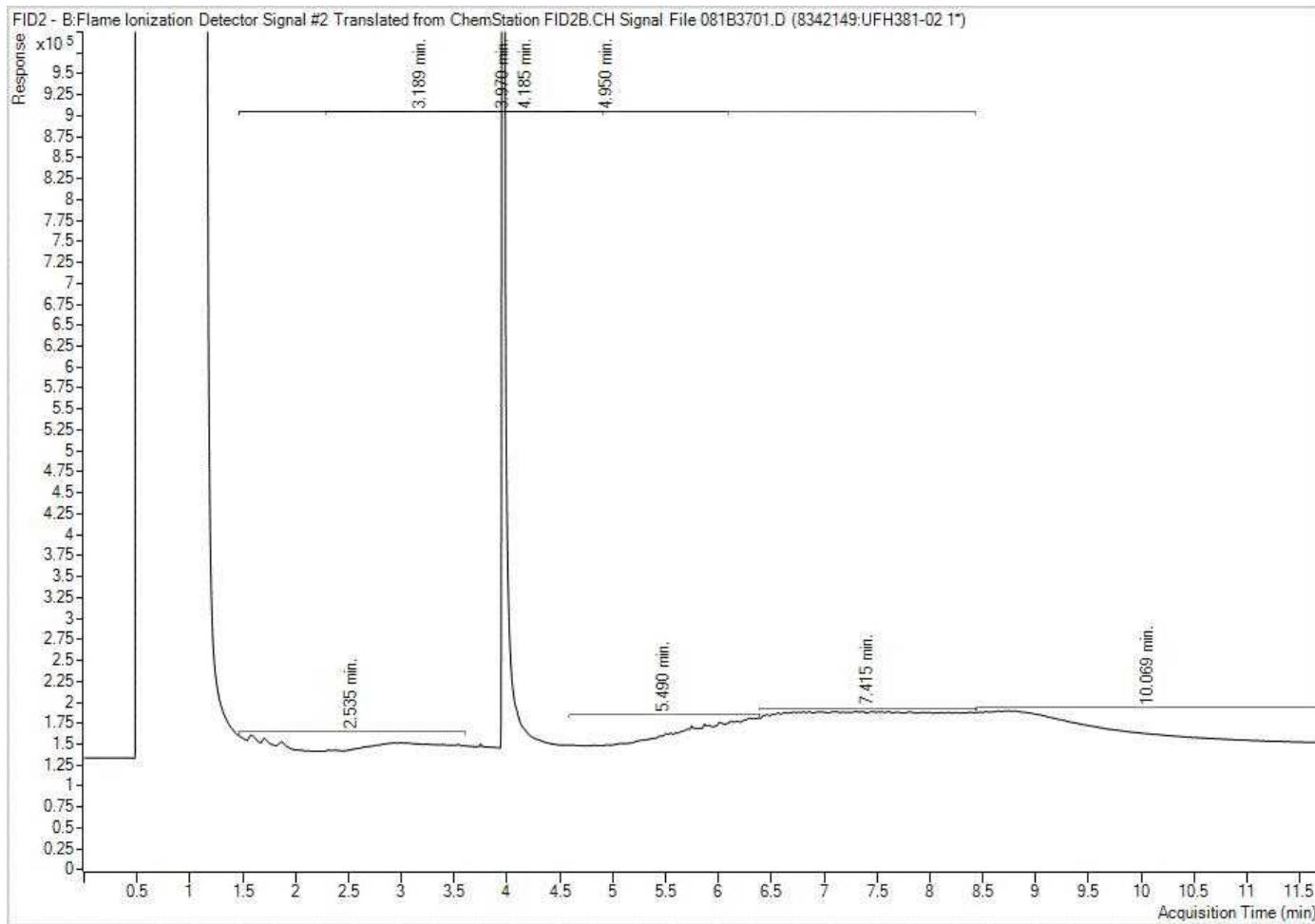


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH381

Golder Associates Ltd
Client Project #: 20146060
Client ID: DUP2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

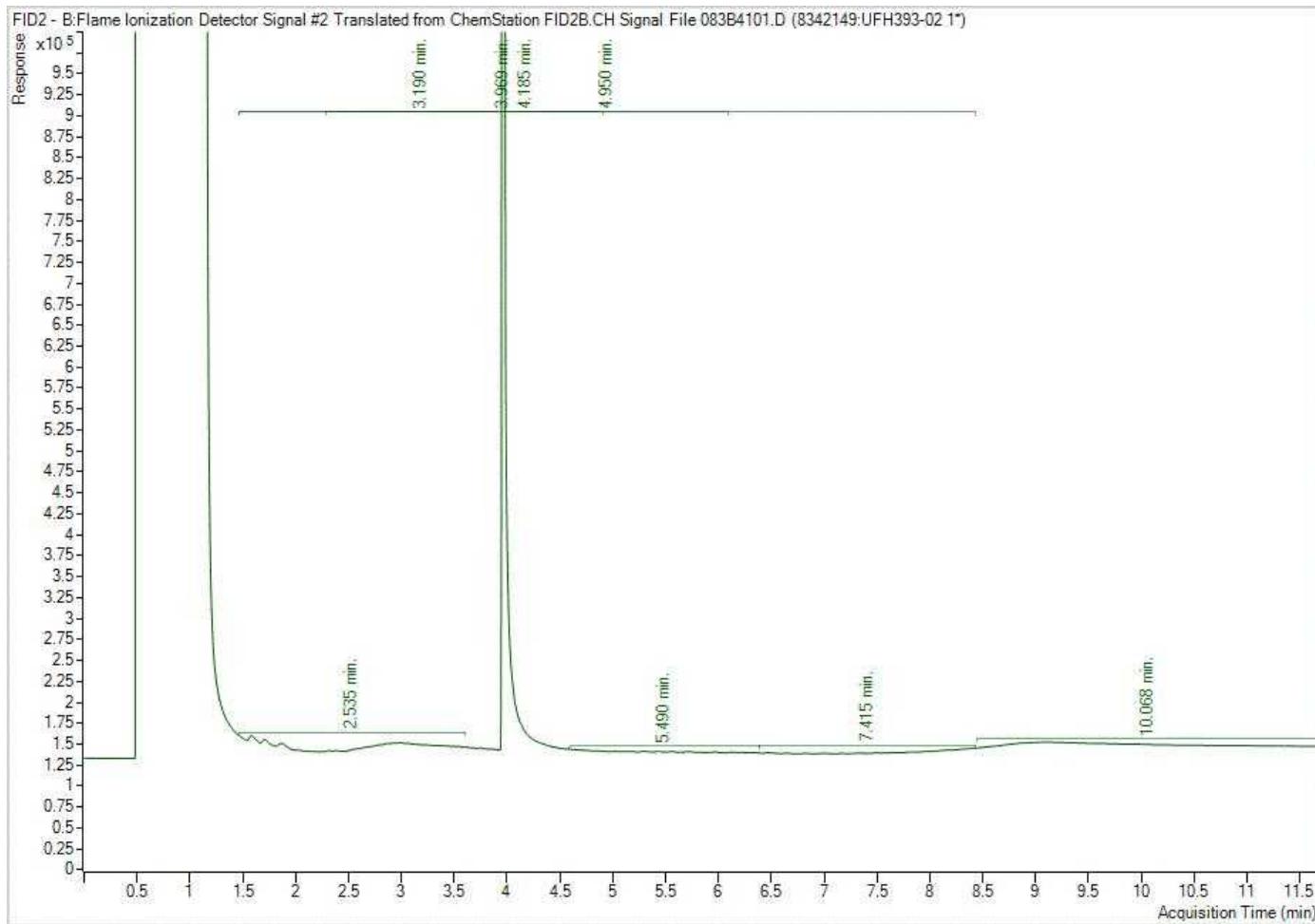


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH393

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP10-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

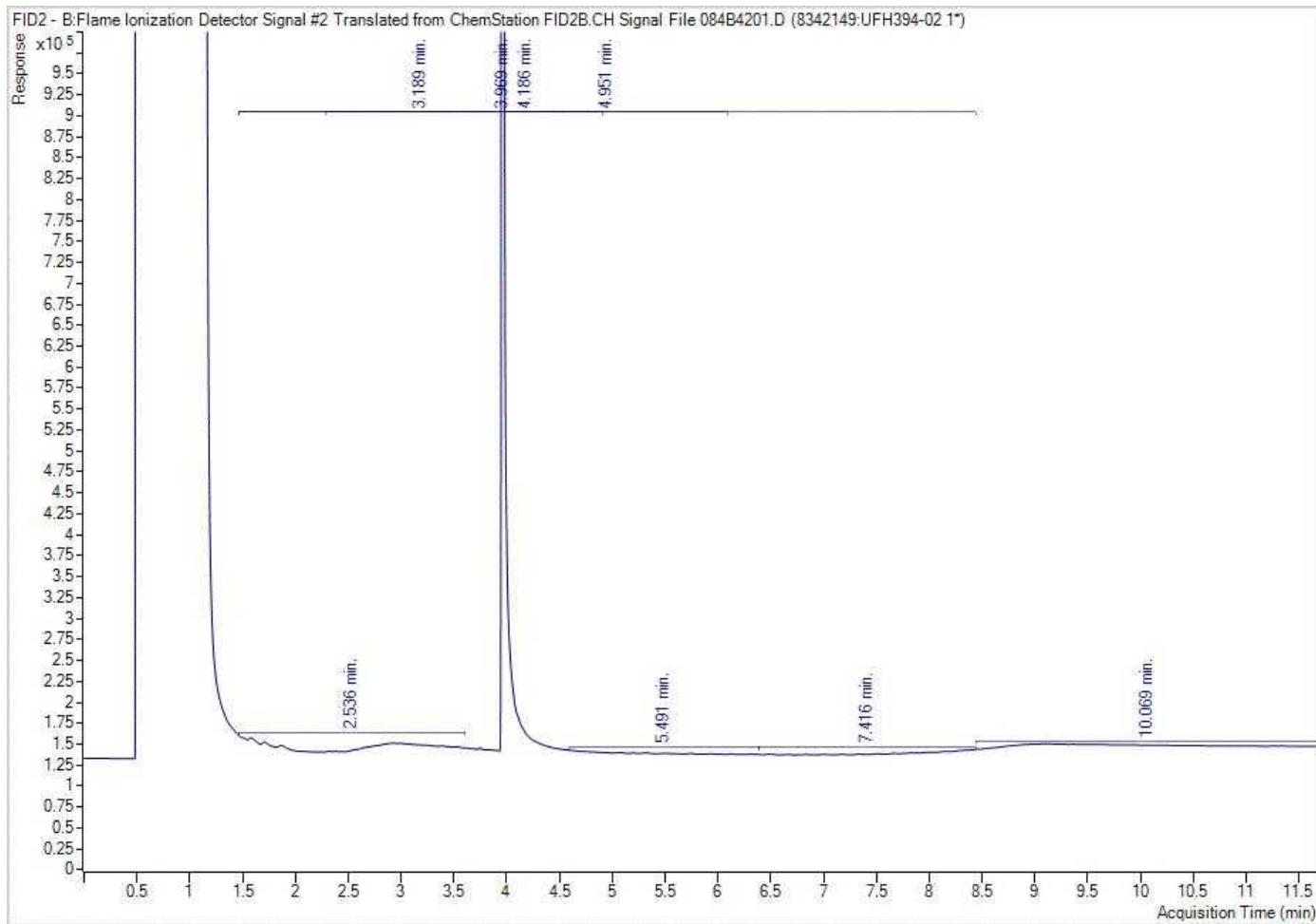


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH394

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP10-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

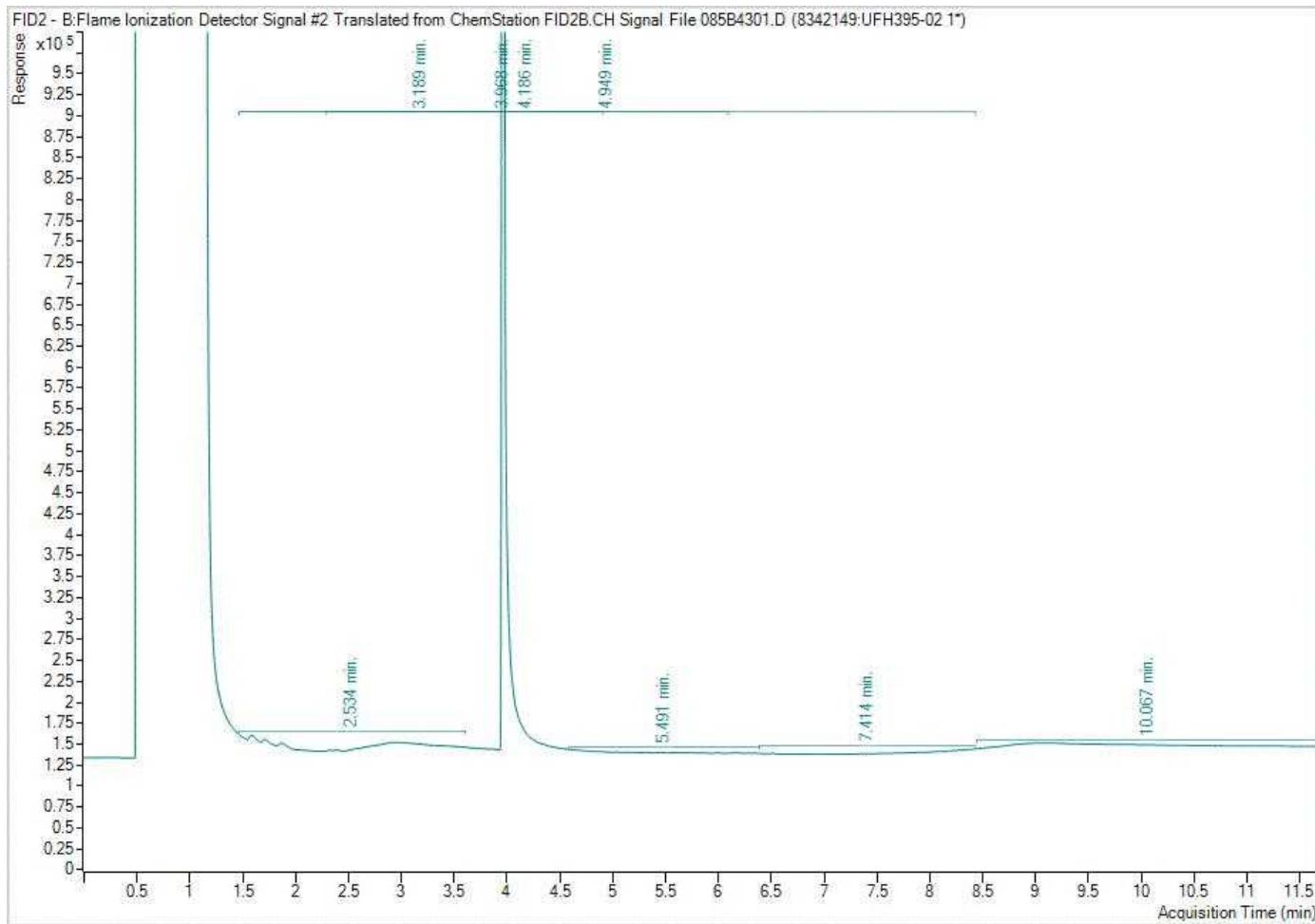


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH395

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP11

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

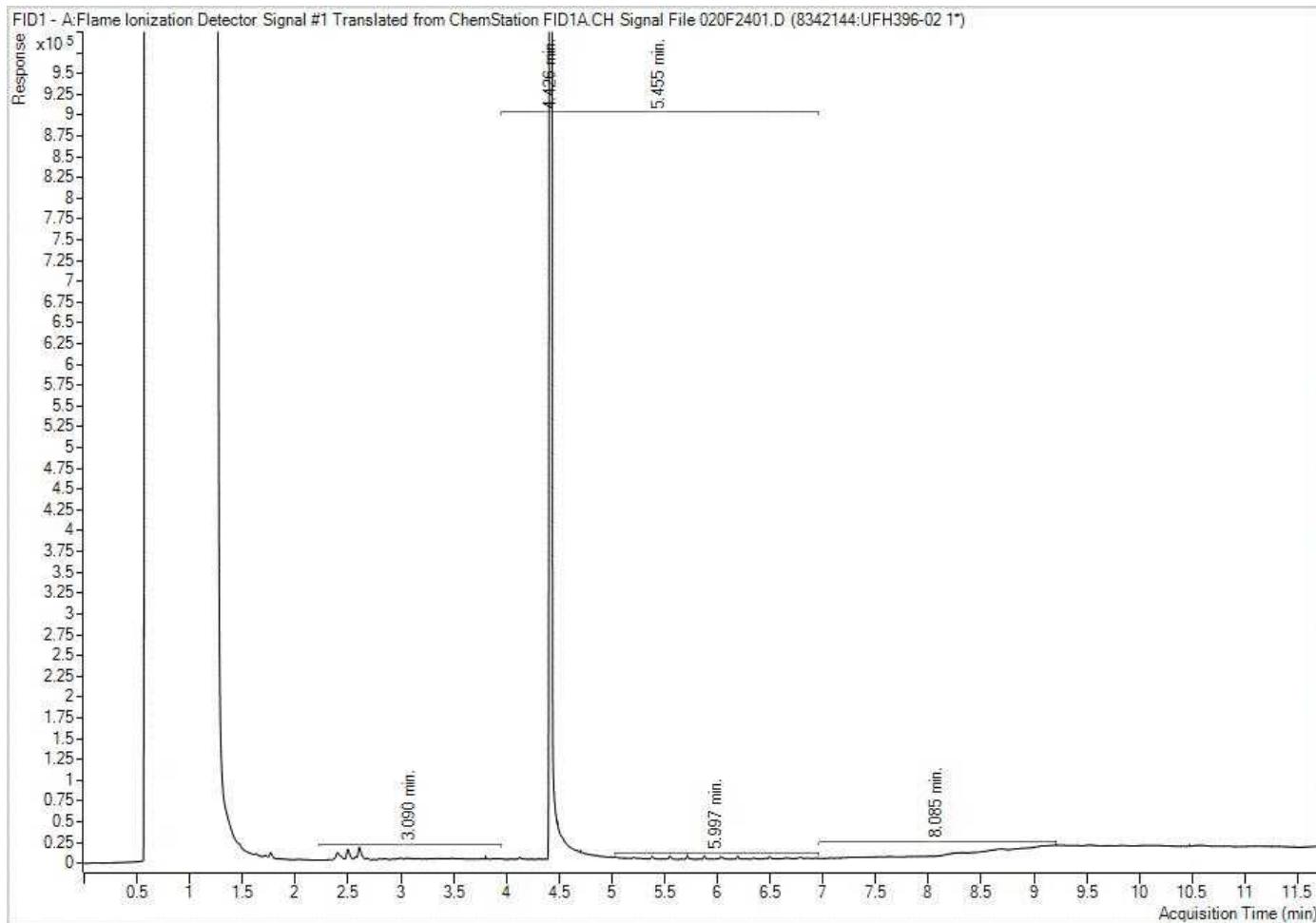


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH396

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP12

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

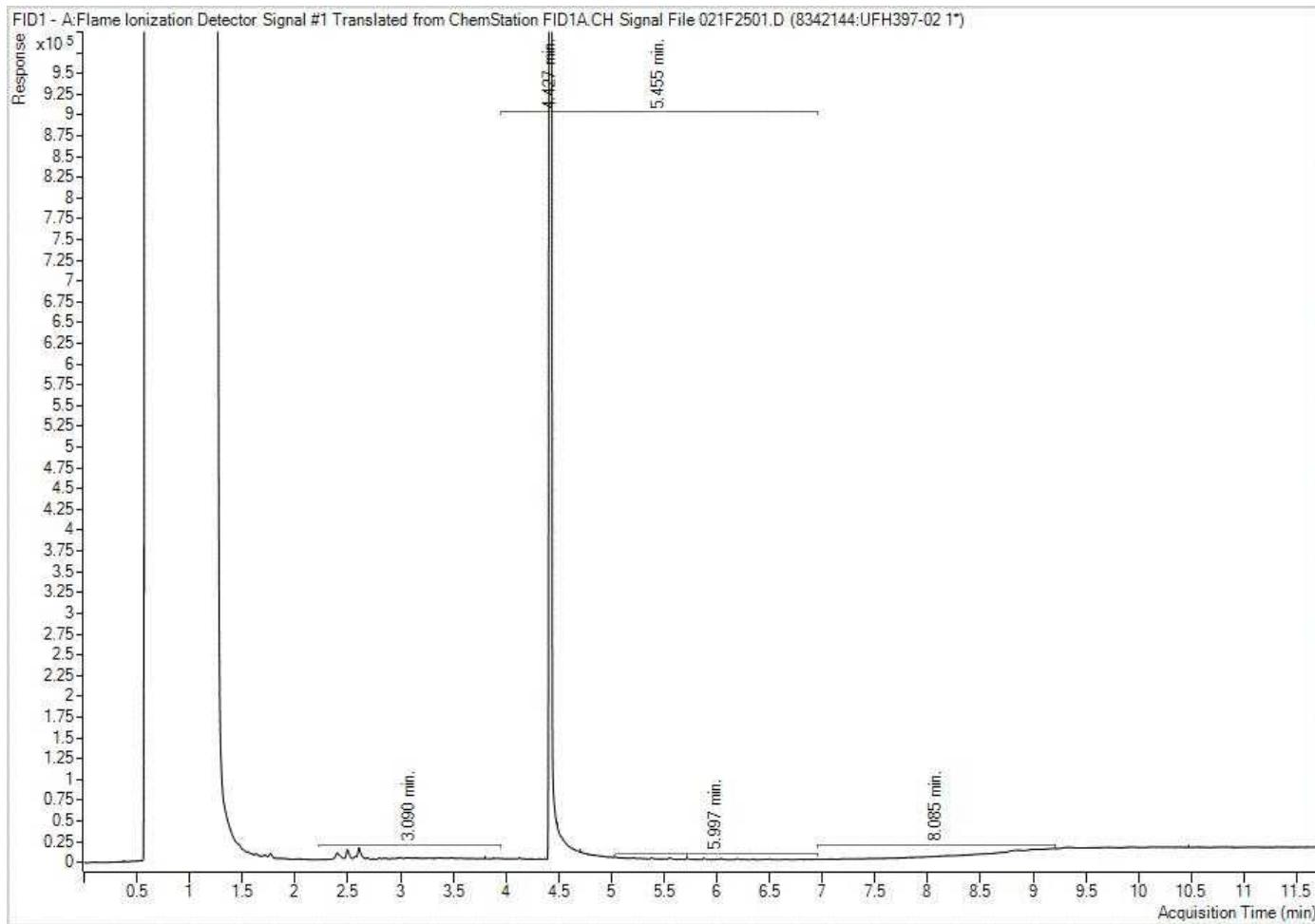


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH397

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP13

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

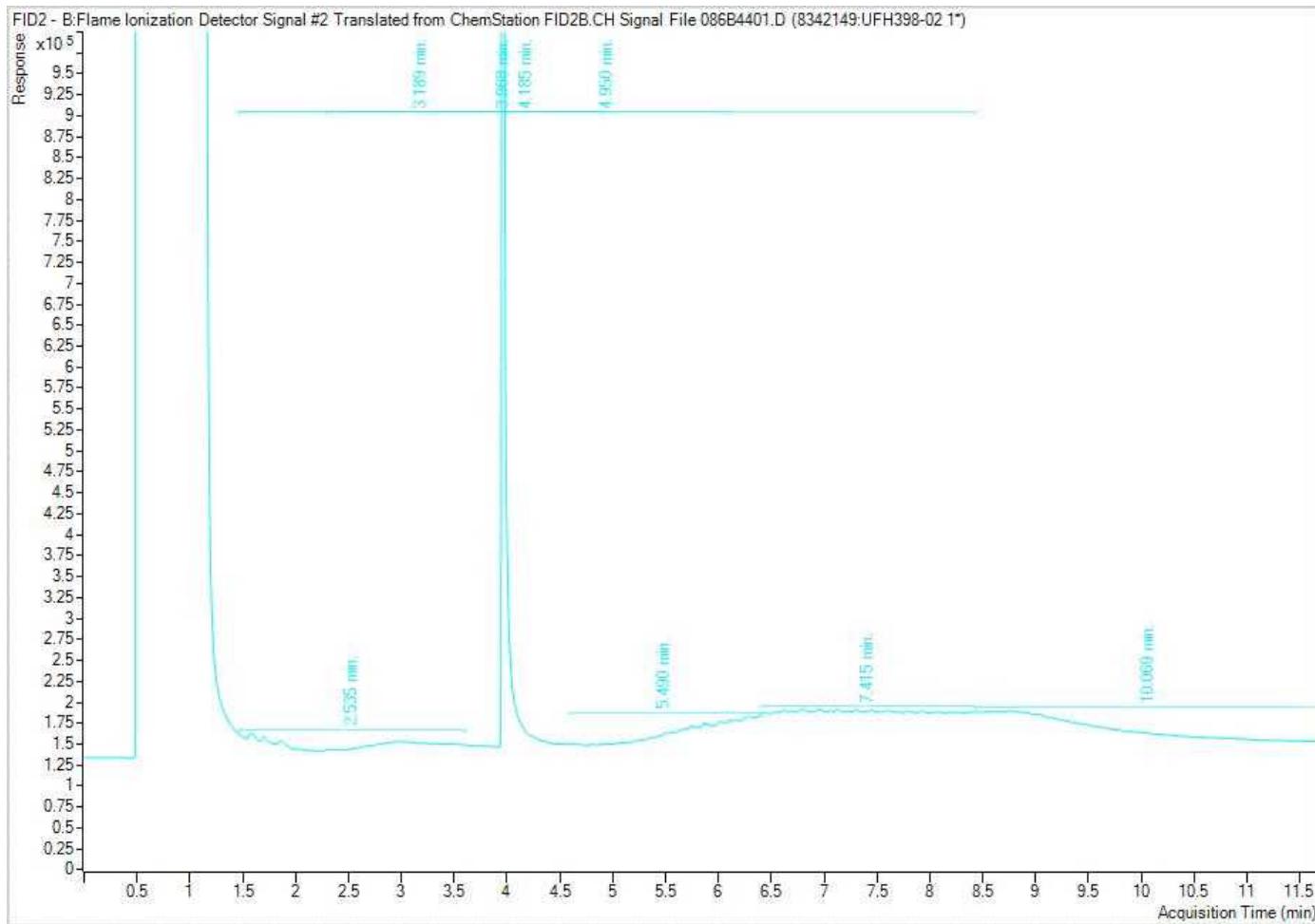


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH398

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP14-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

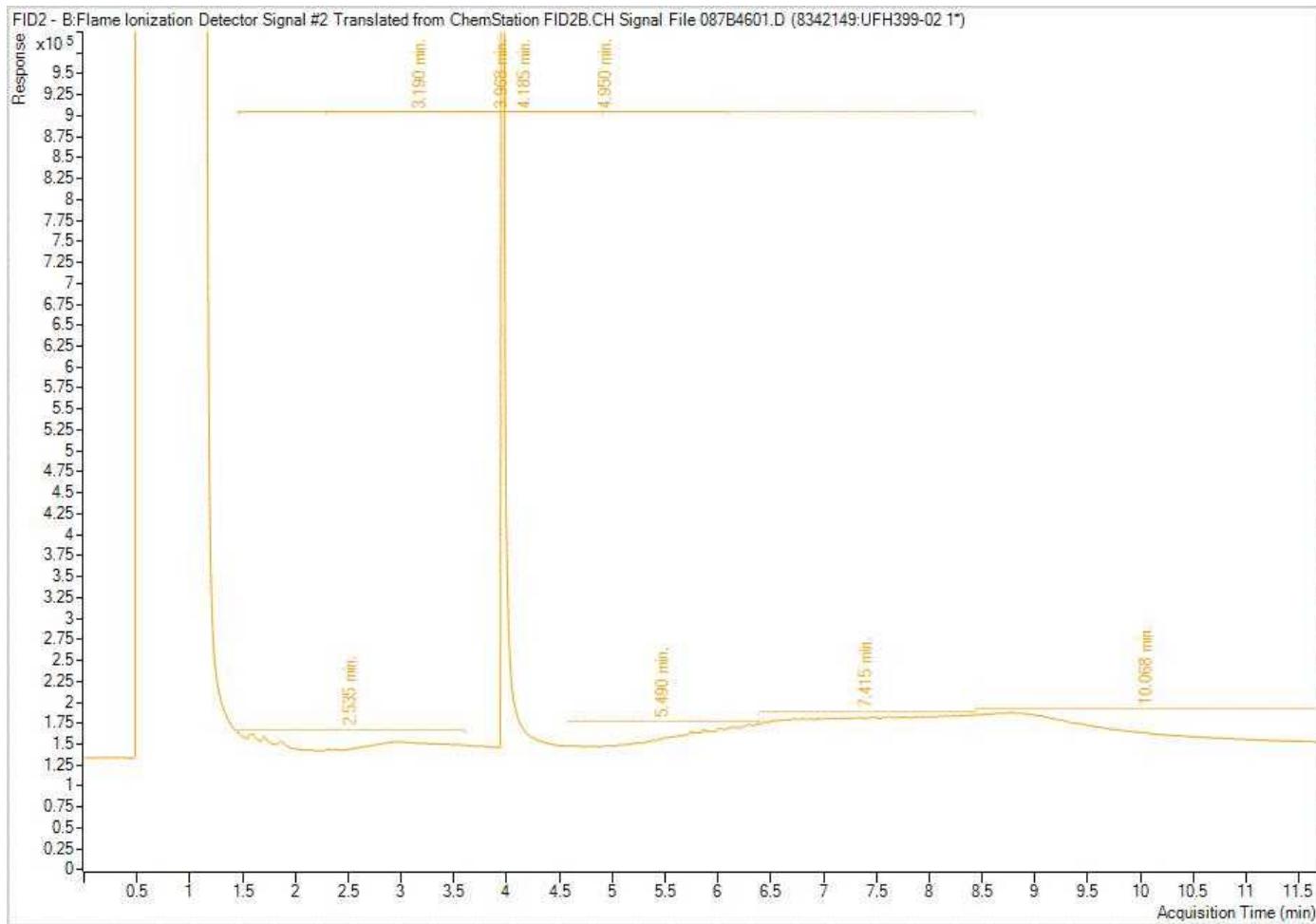


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH399

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP14-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

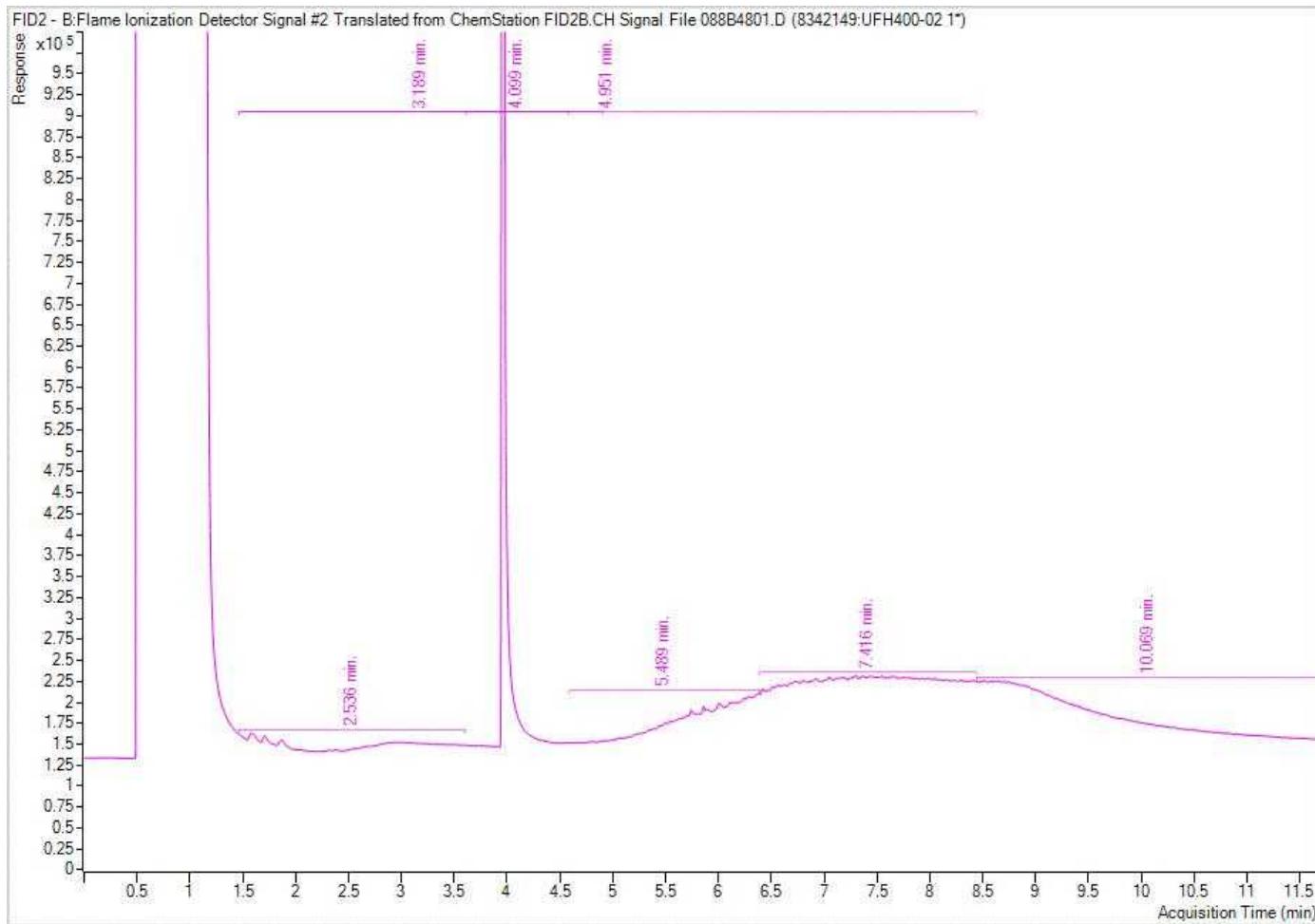


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH400

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP15-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

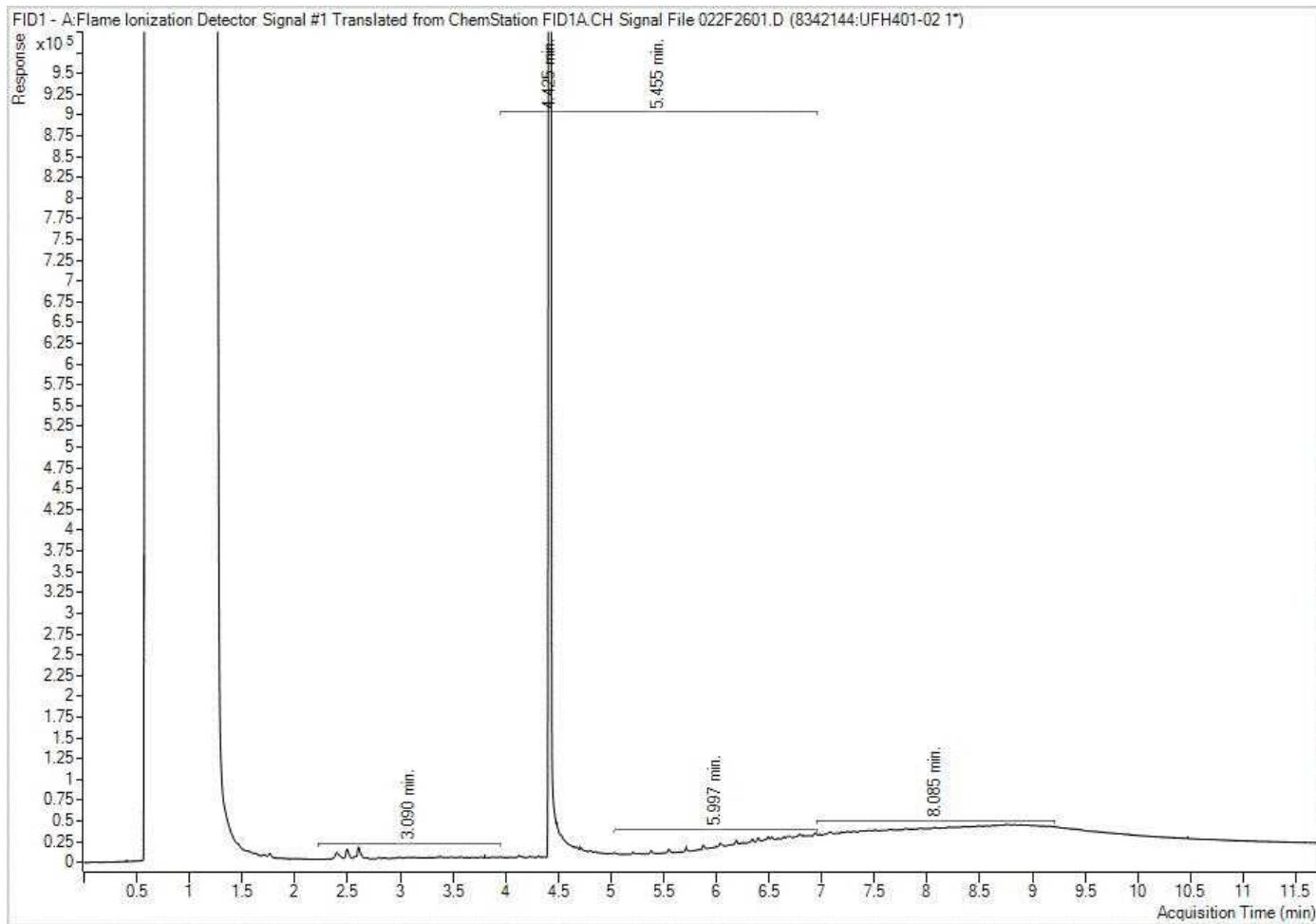


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH401

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP15-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

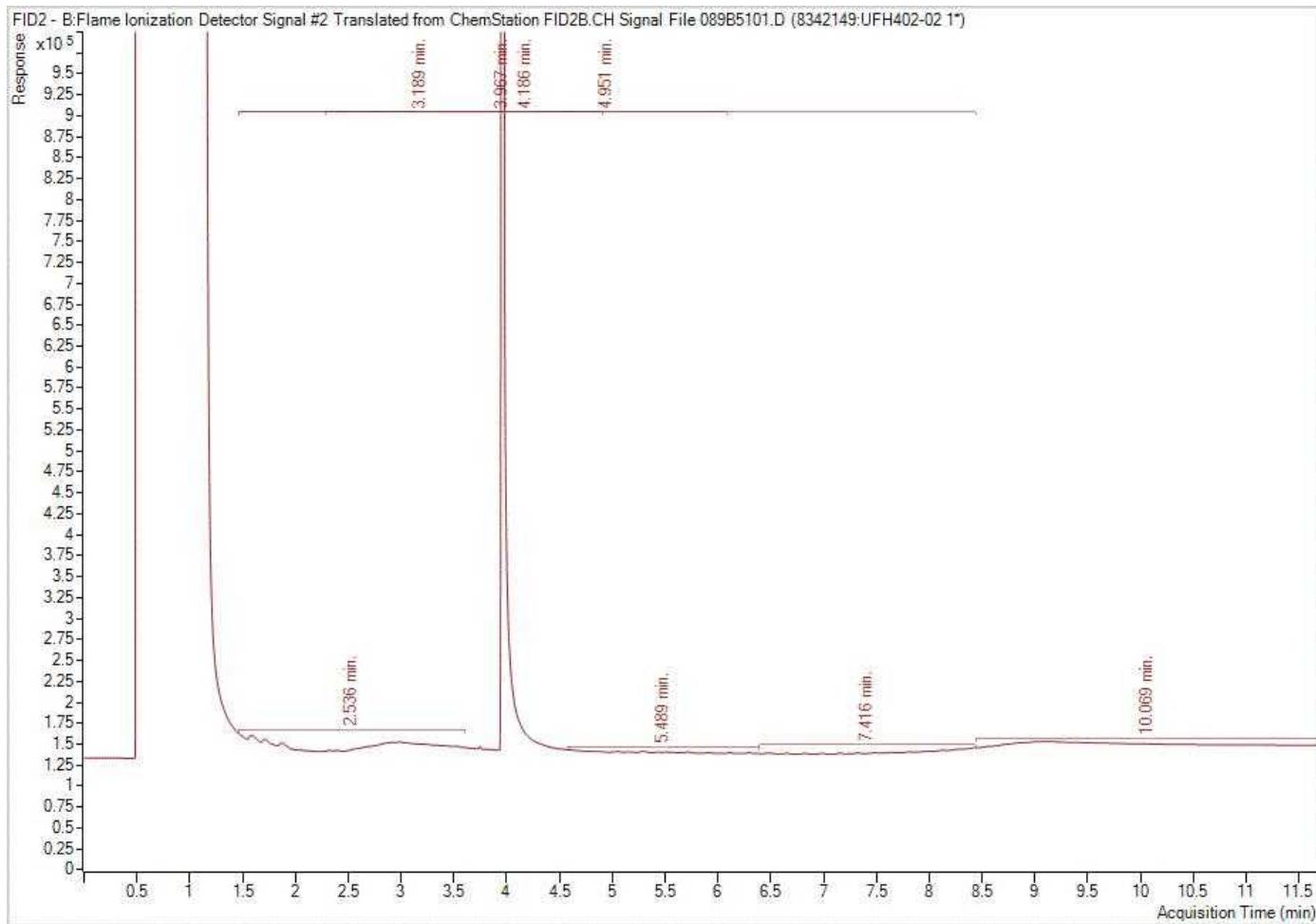


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH402

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP16-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

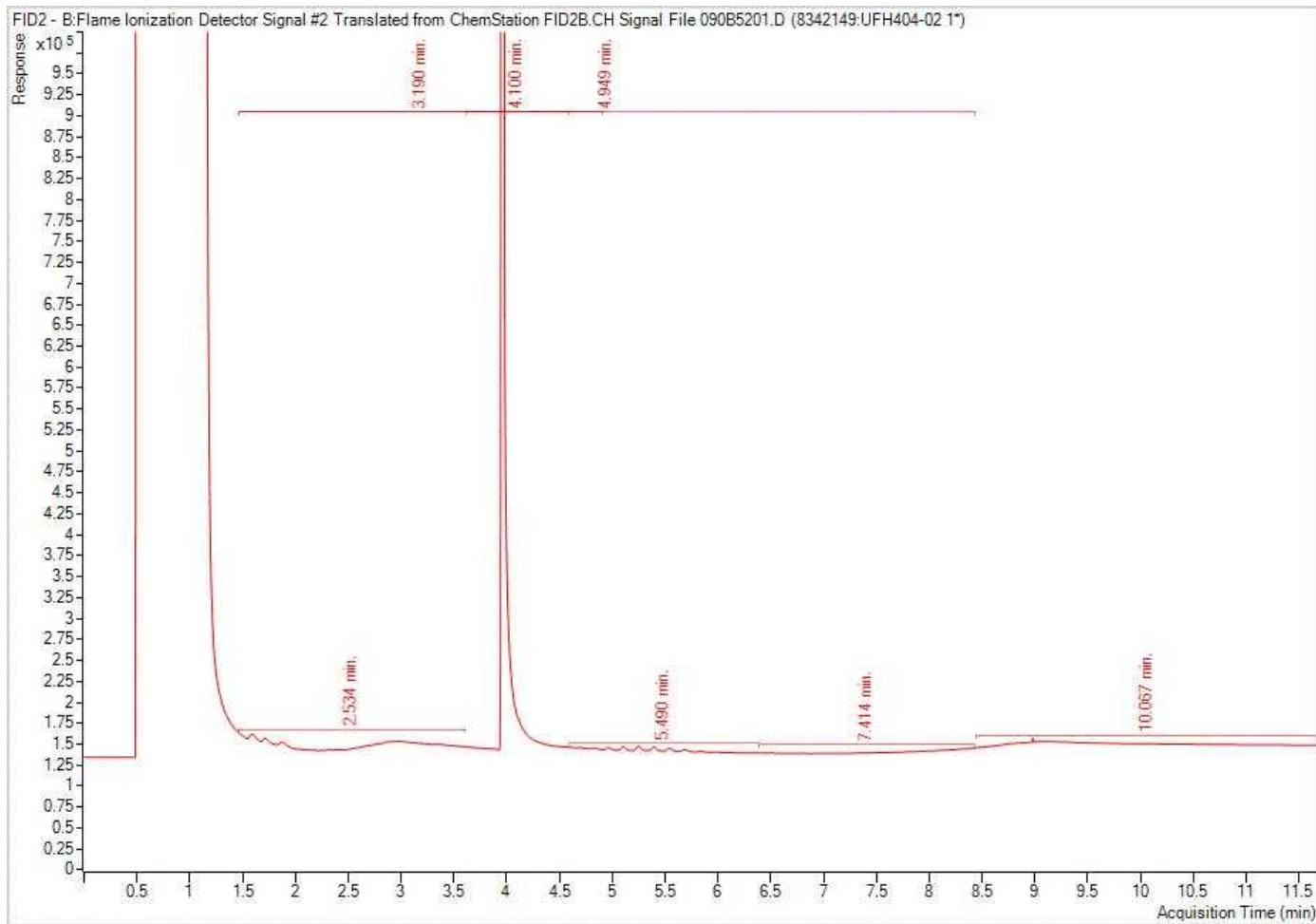


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH404

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP16-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

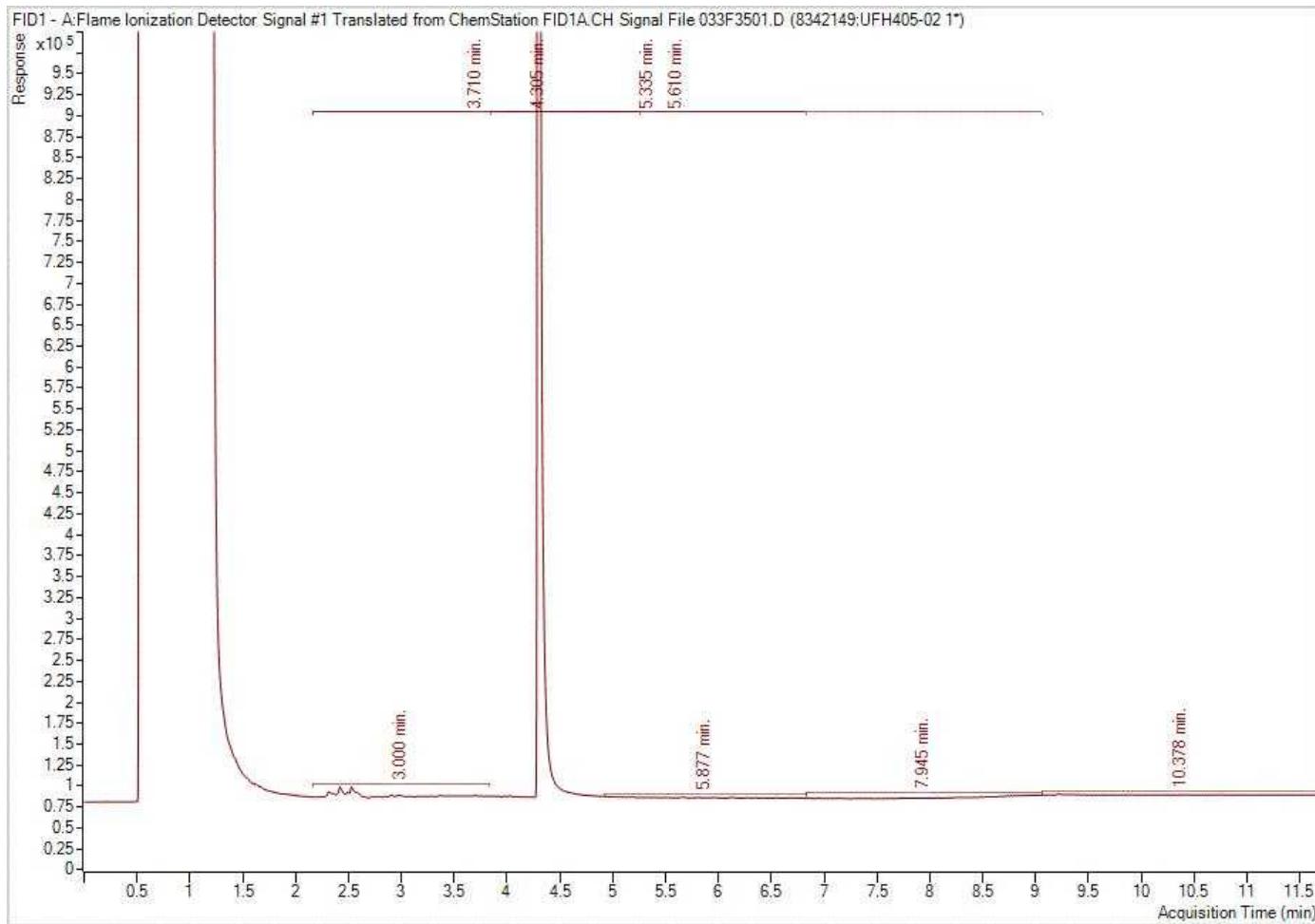


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH405

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP17

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

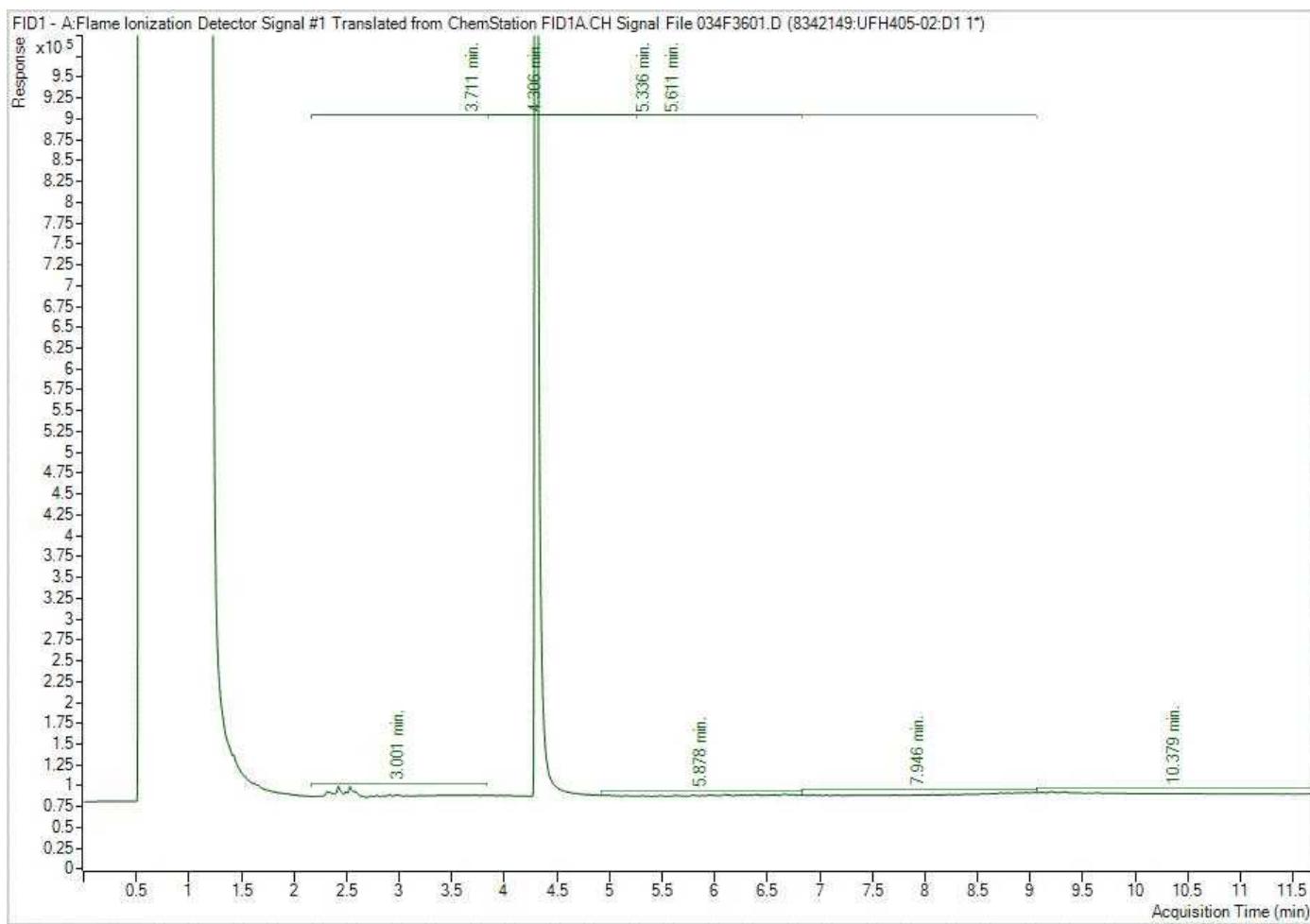


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH405 Lab-Dup

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP17

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

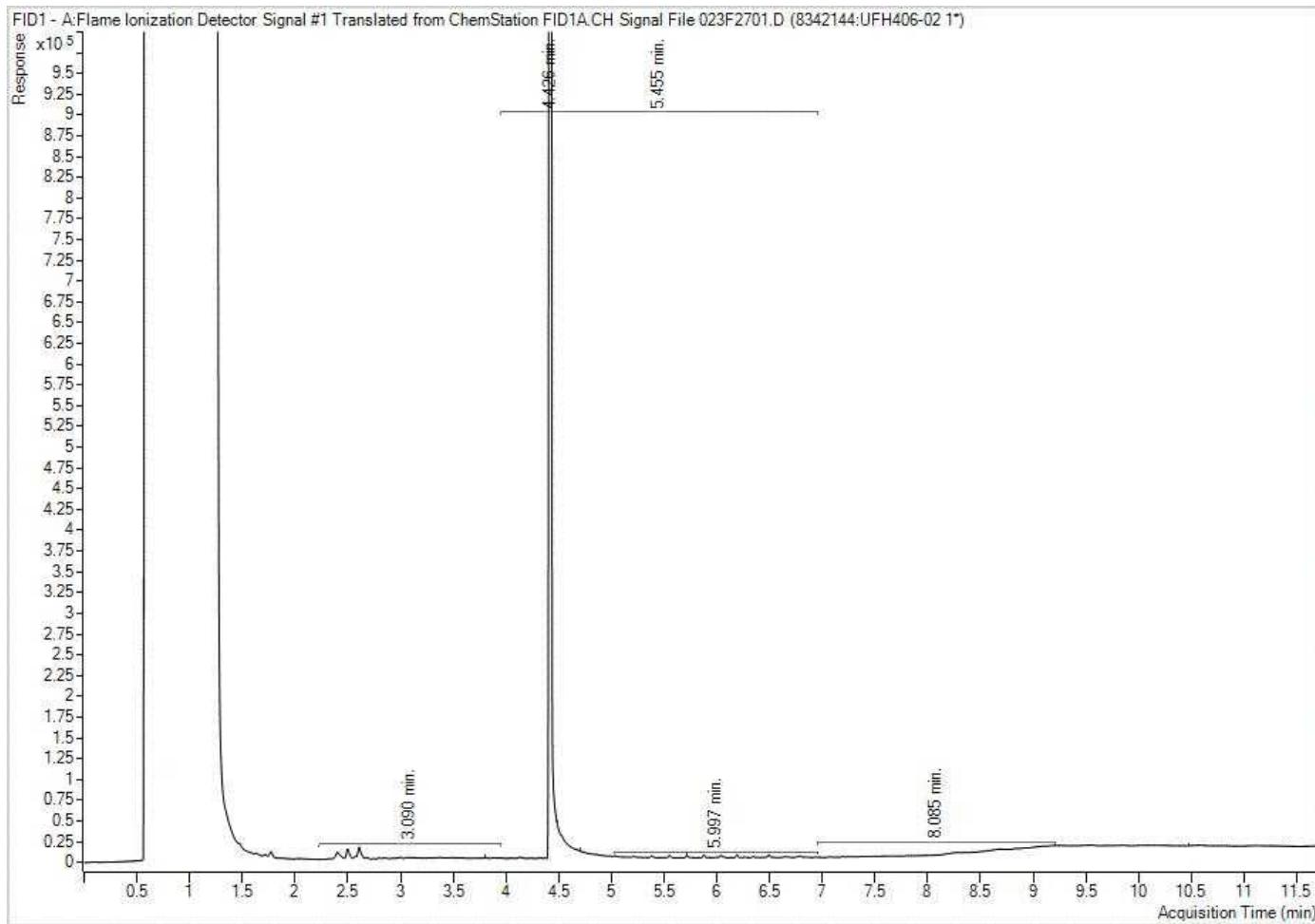


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH406

Golder Associates Ltd
Client Project #: 20146060
Client ID: TP18

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

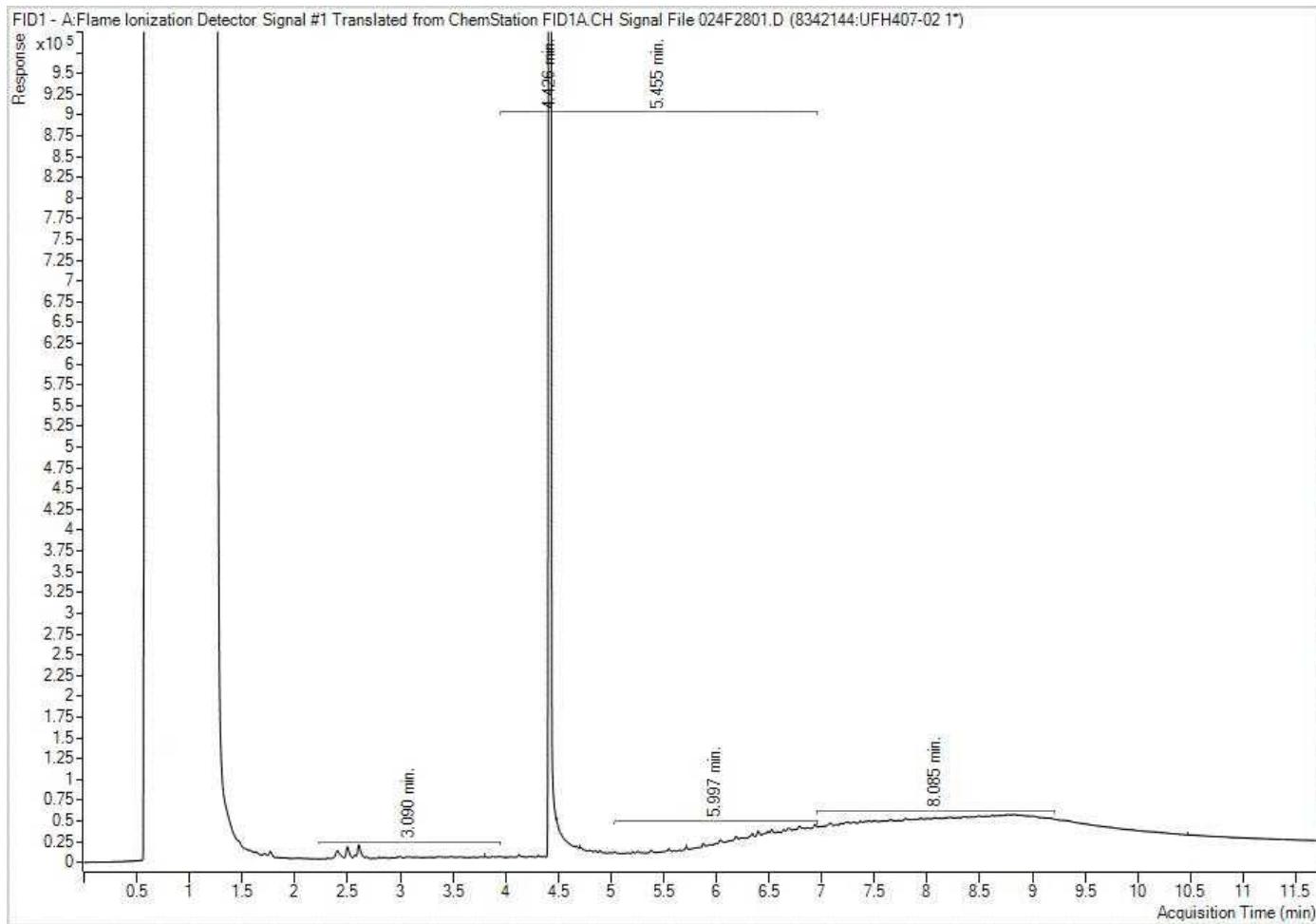


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2W4314
Report Date: 2022/11/15
Bureau Veritas Sample: UFH407

Golder Associates Ltd
Client Project #: 20146060
Client ID: DUP3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.