TERRAPEX

EMPIRE (GRAND NIAGARA) PROJECT GP INC.

PRELIMINARY PHASE II ENVIRONMENTAL SITE ASSESSMENT

Grand Niagara Golf Course, Niagara Falls, Ontario

September 19, 2022
(UPDATED JANUARY 30, 2023)

Terrapex Environmental Ltd.
90 Scarsdale Road
Toronto, Ontario, M3B 2R7
Telephone: (416) 245-0011
Email: toronto@terrapex.com
Website: www.terrapex.com

EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by Empire (Grand Niagara) Project GP Inc. (Empire) to conduct a Preliminary Due-Diligence Phase II Environmental Site Assessment (ESA) for the Grand Niagara Golf Course in Niagara Falls, Ontario (the Site). The Site includes approximately 185 hectares of land located north of Biggar Road, south of the Welland River, east of Crowland Avenue, and west of the Queen Elizabeth Way (QEW) in Niagara Falls, Ontario.

Between August 2021 and April 2022, Terrapex conducted a due-diligence intrusive environmental subsurface investigation in general accordance with the technical requirements of Ontario Regulation (O. Reg. 153/04), (*Records of Site Condition – Part XV.1 of the Act).* A phased-environmental drilling and sampling approach (i.e., field investigations before and after Site acquisition) was implemented to assess current soil and groundwater conditions at the Site. Recognizing that mandatory RSCs would eventually be required for development lands changing to a more sensitive property use (i.e., commercial golf course use to residential, parkland or institutional land use), the environmental investigations were conducted in general accordance with the technical requirements of O. Reg. 153/04 so that the soil and groundwater analytical data could be adapted to meet the detailed and prescriptive requirements of the RSC Regulation.

Terrapex's Phase II ESA work program included the drilling of 55 boreholes to a maximum depth of 8.5 m below grade (mbg), installation of 17 new groundwater monitoring wells, and the recovery and submission of soil and groundwater samples for laboratory analysis to confirm the current environmental condition of the Site.

Based on discussions with Empire and Armstrong Planning, Ontario Ministry of the Environment, Conservation and Parks (MECP) Site Condition Standards (SCS) applicable to residential, parkland and institutional property uses in a non-potable groundwater condition with medium to fine-textured soil (the "Table 3 SCS") were selected for the purpose of establishing environmental baseline conditions to support the development of an appropriate environmental strategy.

Based on field observations and an evaluation of laboratory analytical results from the 2021/22 Due-Diligence Phase II ESA investigations, Terrapex offers the following findings and conclusions:

- The geological conditions encountered at the Site during recent environmental drilling investigations generally comprised silty clay and clayey silt to 8.5 mbg, the maximum depth of the investigation;.
- No evidence of contamination was observed in any of the recovered soil samples, based on the results of field screening and borehole logging;.
- No evidence of non-aqueous phase liquids (i.e., NAPL, also known as "free phase product") was observed during monitoring, purging, or sampling of the monitoring wells;.
- Soil analytical results revealed that the concentrations of all analysed parameters in the submitted soil samples were less than the Table 3 SCS, with the exception of EC in several

soil samples collected across the Site. However, many of the elevated EC levels exceeding the Table 3 SCS were only found in subsurface soil samples (i.e., soil deeper than 1.5 mbg). Because EC is only of environmental concern for plants and soil organisms in direct contact with surface soil (1.5 mbg or shallower), there is not a O. Reg. 153/04 generic subsurface standard for EC;

- Based on a secondary screening of soil analytical results to stratified Table 5 SCS, it can be concluded that the soil samples with reported EC levels exceeding the Table 3 SCS in only subsurface soil are not impacted; and,
- Groundwater analytical results revealed that concentrations of all analyzed parameters in groundwater were less than the Table 3 SCS (as well as the Table 5 SCS).

Terrapex understands that the Grand Niagara development plans are currently conceptual in nature and subject to change as the design evolves. Based on our current understanding of the future land use and policy framework established by the Grand Niagara Secondary Plan, some portions of the development lands will require comparison of soil and groundwater analytical results to more stringent SCS to facilitate the filing of the required RSC(s). In particular, this scenario is anticipated to affect portions of the development lands located in close proximity to a more restrictive regulatory environment (e.g., environmental sensitive lands or nearby properties with drinking water wells).

Based on the findings and conclusions presented herein, it is recommended that an appropriate environmental strategy be developed though a collaborative effort between Terrapex, Empire, Armstrong, and other relevant project team members. The environmental strategy should consider potential environmental constraints and constructability considerations in the context of the current and future property uses, the Site development plan, and its phased construction approach.

TABLE OF CONTENTS

TABLE OF CONTENTS
(CONTINUED)

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by Empire (Grand Niagara) Project GP Inc. Communities (Empire) to conduct a Preliminary Phase II Environmental Site Assessment (ESA) for the Grand Niagara Golf Course in Niagara Falls, Ontario (the "Site").

1.1 SITE DESCRIPTION AND BACKGROUND

The Site includes approximately 185 hectares of land located north of Biggar Road, south of the Welland River, east of Crowland Avenue, and west of the Queen Elizabeth Way (QEW) in Niagara Falls, Ontario. The majority of these lands are presently occupied by the Grand Niagara Golf Course. The location of the Site is shown on Figure 1.

The Site is located within the Niagara River Watershed and Grassy Brook and Lyons Creek transect the central and southern portions of the Site in an east-west orientation. The Welland River is located immediately north of the Site.

Historical investigations were conducted at the Site between December 2015 and May 2017 by WSP Canada Group Limited (WSP; formerly MMM Group Limited) on behalf of the former Grand Niagara Co-Owners. Phase One and Phase Two ESAs were conducted at the Site for environmental due-diligence purposes to support the divestiture of the Site for redevelopment per the framework of the Grand Niagara Secondary Plan.

WSP's intrusive environmental investigation included the completion of 27 boreholes to a maximum depth of 6.1 meters below grade (mbg), the installation of 13 groundwater monitoring wells, and the collection of soil and groundwater samples for laboratory analysis. The soil samples were generally collected from golf course tee boxes, fairways, and greens via borehole sampling; and, sand traps by grab sampling.

Prior to completing the Phase II ESA work at the Site, Terrapex conducted a preliminary Phase I ESA by reviewing the soil and groundwater analytical data previously collected by WSP as well as historical records and environmental database information presented in WSP's reports. The Phase I ESA review identified the following historical activities of potential environmental interest at the Site:

- Pesticide and fertilizer storage and application on the golf course portions of the Site.
- An off-Site railway line transecting the Site diagonally in an east to west orientation, dividing the northern and southern portions of the Phase I property.
- An off-Site gasoline and diesel storage tanks at 9733 Crowland Avenue, approximately 30 m from central-western Site boundary.
- An off-Site steel fabrication facility with private fuel storage tanks at 9127 Montrose Road, located adjacent to the northeast of the Site and operated by E.S. Fox Limited. This property

was the former location of a glass assembly plant operated by the Ford Motor Company of Canada Ltd.

The execution of a Phase II ESA was recommended to confirm soil and groundwater quality and provide a reasonable degree of confidence that there were not any significant changes concerning the environmental quality of soil or groundwater since May 2017, the date of WSP's last soil and groundwater characterization investigation.

1.2 STUDY OBJECTIVES

The purpose of the "Due-Diligence" Phase II ESA was to assess the current soil and groundwater conditions at the Site as part of Empire's acquisition, planning, and preliminary design phases of the Grand Niagara development project.

1.3 SCOPE OF WORK

The scope of the services provided by Terrapex during this due-diligence work program included:

- contacting the appropriate agencies and private locator to obtain public and private utility clearances before the drilling program, preparing a site-specific health and safety plan for the field program, and completing job safety analyses for each task.
- preparing sampling and analysis plans for each soil and groundwater sampling event, which identify target sampling locations and associated rationale, a proposed laboratory analytical program, and the number and type of Quality Control samples;
- between August and September 2021, completing an environmental drilling program comprising of 17 boreholes, of which five were instrumented with groundwater monitoring wells;
- between March and April 2022, completing an environmental drilling program comprising of 38 boreholes, of which 12 were instrumented with groundwater monitoring wells;
- collecting soil samples during drilling, and logging of visual, olfactory, and tactile soil characteristics, and evidence of chemical impacts, if any;
- collecting grab samples from four sand traps;
- measuring combustible soil vapour and total organic vapour concentrations in soil samples;
- monitoring and developing the new monitoring wells to ensure the groundwater samples were representative of the surrounding formation;
- monitoring, purging, and collecting representative groundwater samples for laboratory analyses approximately one week after the initial monitoring event, after all of the monitoring wells had sufficiently recovered;
- submitting selected soil and groundwater samples for laboratory analyses; and,

- evaluating laboratory analytical results against the applicable site condition standards (SCS).

Borehole drilling and monitoring well installation services for this work program were provided by Profile Drilling Inc. (Profile) of Mississauga, Ontario, under contract with Terrapex. Profile is a Ministry of the Environment, Conservation and Parks (MECP)-licensed well drilling contractor.

Laboratory analytical services for this work program were provided by the Bureau Veritas Laboratories (BV) facility in Mississauga, Ontario, under contract with Terrapex. The BV facility is accredited by the Standards Council of Canada (SCC) and the Canadian Association for Laboratory Accreditation (CALA) to International Standard ISO/IEC 14001:2015, *General Requirements for the Competence of Testing and Calibration Laboratories* for the parameters included in the analytical program.

2.0 WORK PROGRAM

2.1 PREPARATION

Prior to drilling, appropriate agencies were contacted to identify the locations of buried utilities at and near the Site. Landshark Locating Services (a division of Landshark Drilling Inc.), a private underground cable and pipe locating contractor, was retained by Terrapex to provide clearance with respect to buried private utilities at the borehole locations and confirm the location of public utilities in the vicinity of the boreholes.

A Site-specific health and safety plan (HASP) was also prepared by Terrapex prior to commencing field work. All team members, including sub-contractors, read and signed the HASP before commencing work at the Site.

2.2 BOREHOLE DRILLING

Between early-August and mid-September 2021, Terrapex advanced a total of 17 boreholes at the Site by Profile. Twelve (12) shallow boreholes were advanced to depths ranging from 0.8 to 2.5 mbg and five deeper boreholes were advanced to depths ranging from 4.6 to 7.6 mbg. The five deeper boreholes were instrumented with groundwater monitoring wells.

Between late-March and early-April 2022, Terrapex advanced an additional 38 boreholes at the Site by Profile. Twenty-six (26) shallow boreholes were advanced to a depth of 2.5 mbg and 12 deeper boreholes were advanced to depths ranging from 4.9 to 8.5 mbg. The 12 deeper boreholes were instrumented with groundwater monitoring wells.

The shallow boreholes were advanced using portable hand-held percussion drilling equipment (i.e., Pionjar 120 drill unit) and deeper boreholes using a CME75 track-mount drill rig, equipped with standard split spoon samplers. To facilitate monitoring well installations, the CME75 drill rig was also equipped with hollow stem augers. Borehole advancement was supervised full-time by

Terrapex personnel.

The borehole locations were selected to be proximate to the areas of environmental interest identified in the preliminary Phase I ESA as well as to provide general Site coverage. Consideration was also given to the location of buried and overhead services, as well as terrain, on the Site.

During drilling, soil samples were collected every 0.76 m using 0.61 m split spoon samplers. Each recovered sample was divided into two portions, with one portion placed in a clear sampling bag for field screening/logging, and the second portion placed in laboratory-supplied sampling containers for possible laboratory analyses. Soil was logged in the field with respect to soil type, qualitative moisture content and visual/olfactory evidence of chemical impact. Soil vapour concentrations were measured in the headspace of each sampling bag using a RKI Eagle 2™ Portable Gas Monitor, calibrated to *n*-hexane and operated in the "methane elimination" mode. Samples for analysis of volatile organic parameters were preserved in the field using methanol.

To mitigate cross-contamination, the split spoon samplers were decontaminated between samples and fresh nitrile gloves were donned for the handling of each sample.

2.3 MONITORING WELL INSTALLATION

Boreholes that were instrumented as monitoring wells used 50 mm nominal diameter, schedule 40 PVC well pipe and #10 slotted well screen. The annulus of each well was backfilled with #2 washed silica sand to a depth of approximately 0.3 m above the screened interval. A bentonite seal was placed above the sand pack to prevent infiltration of surface water into the monitoring well. The standpipe of each well was sealed and secured with a locking "J-plug" expandable cap. A stick-up, monument protective casing, cemented in place, was installed at each of the well locations, and was locked to prevent tampering.

Following installation, each monitoring well was instrumented with a dedicated inertial sampler comprising low density polyethylene (LDPE) tubing and a LDPE foot valve.

The monitoring well locations are illustrated on Figure 2. The borehole logs illustrating the monitoring well construction details are included in Appendix II.

2.4 WELL DEVELOPMENT, GROUNDWATER MONITORING AND SAMPLING

Well development, groundwater monitoring, and sampling was conducted on August 12, 2021, as well as May 17 to 19, 2022.

Well Development

Prior to development, the wells were monitored for depth to water depth and to the bottom of the well using an electronic water level meter.

The wells were developed in order to remove entrained particulate in the well standpipe, well screen and filter pack as well surrounding formation materials. The development was conducted until the wells yielded water free of visible particulate or until a "dry" condition was encountered for three consecutive cycles.

Well Monitoring

Immediately upon removal of the well standpipe cap, headspace combustible readings were monitored using an RKI Eagle™ Portable Gas Monitor, calibrated to *n*-hexane and operated in "methane elimination" mode. The depth to water and to the bottom of the well and depth to non-aqueous phase liquids (NAPL) (if any) was subsequently measured using an electronic oil/water interface probe.

Well Sampling

Following monitoring, the August 2021 groundwater sampling was conducted using a disposable bailer due to low groundwater recovery.

The May 2022 sampling was conducted was conducted using "low-flow" methodology with a peristaltic pump and YSI water quality meter. Water quality parameters; temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP), were measured during sampling of groundwater. Prior to sampling, Terrapex recorded the water quality parameters over 3-minute intervals. When the parameters stabilized to within requirements as outlined in Terrapex's SOP, the well was deemed appropriate for sampling.

Groundwater samples were collected directly into laboratory-supplied sampling bottles, packed in a cooler with ice, and shipped undersigned chain of custody to BV for laboratory analysis.

2.5 ANALYTICAL PROGRAM

Soil and groundwater samples were submitted for laboratory analysis as summarized below:

Soil Samples

- 119 samples (including 12 field duplicates) were analyzed for one or more contaminant parameter group, including metals, hydride-forming metals, and other regulated parameters (including hot water soluble boron, hexavalent chromium, cyanide, mercury, electrical conductivity [EC], sodium adsorption ratio [SAR], and pH);
- 15 samples (including three field duplicates) were analyzed for polycyclic aromatic hydrocarbons (PAHs);
- 57 samples (including seven field duplicates) were analysed for benzene, toluene, ethylbenzene, xylenes (collectively, BTEX), and petroleum hydrocarbons (PHCs);

- 12 sample (including four field duplicates) were analyzed for volatile organic compounds (VOCs);
- 27 samples (including four field duplicates) were analyzed for polychlorinated biphenyls (PCBs); and,
- 22 samples (including three field duplicates) were analyzed for organochlorine pesticides (OCPs).

Groundwater Samples

- 14 samples (including two field duplicates) were analyzed for one or more of metals, hydride-forming metals, and other regulated parameters (including hexavalent chromium, cyanide, mercury, sodium, and chloride);
- 11 samples (including one field duplicate) were analyzed for PAHs;
- 11 samples (including one field duplicate) were analyzed for BTEX and PHCs; and,
- Four samples (including one field duplicate) were analyzed for VOCs.

In addition, one methanol blank with the soil samples and one trip blank with the groundwater samples were submitted for analysis of BTEX, PHC F1, and VOCs.

2.6 IMPEDIMENTS

Other than the terrain and vegetation encountered in select areas of the Site, there were no impediments to the work program.

3.0 RESULTS

3.1 SUBSURFACE CONDITIONS

3.1.1 SOIL

Subsurface stratigraphy at the Site generally comprised silty clay and clayey silt to the maximum borehole depth of the investigation. No visible or olfactory evidence of contamination was noted in any of the soil samples.

The combustible soil vapour (SV) concentrations measured on recovered soil samples were all less than or equal to 90 parts per million by volume (ppm). The organic vapour concentration measured on recovered soil samples were all less than 2 ppm.

The stratigraphy encountered in the boreholes is described in the borehole log provided in Appendix II.

3.1.2 GROUNDWATER

Combustible SV readings within the headspaces of the monitoring wells between August 6 and 19, 2021 were all less than 5 ppm (the detection limit of the instrument). Organic vapour concentrations were all less than 1 ppm.

On August 19, 2021, the depth to groundwater ranged from 0.90 mbg (MW109) to 4.18 mbg (MW106). On May 17, 2022, the depth to groundwater ranged from 0.17 mbg (MW06) to 3.18 mbg (3-MW229).

Neither measurable thickness of light, non-aqueous phase liquid nor hydrocarbon “sheen” was encountered during monitoring, purging, or sampling of the monitoring wells.

A summary of the groundwater monitoring results is provided in Table 1.

3.2 SOIL AND GROUNDWATER STANDARDS SELECTION

Generic MECP SCS for evaluating laboratory analytical results were selected from the April 15, 2011 *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* document on the basis of the criteria specified in O. Reg. 153/04.

Based on a review of Site information, the full depth generic soil and groundwater standards applicable for residential/parkland/institutional land use in a non-potable groundwater condition, fine/medium-textured soil, listed in Table 3 of the MECP *Standards* were used to evaluate laboratory analytical results at this time.

It is recognized that a potable water well is present on the central portion of the Site. It is Terrapex’ understanding that this well will be decommissioned in accordance with O. Reg. 903 prior to

redevelopment of the Site. Potable water wells are also present on properties to the south of the Site along Biggar Road. The status of these off-Site potable water wells will be re-evaluated prior to development; and, if necessary, the use of potable groundwater standards will be used to evaluate soil and groundwater data in the vicinity of these properties.

Additionally, several areas of the Site encroach within 30 m of environmentally sensitive areas and water bodies (as defined by O. Reg. 153/04). As such, these portions of the Site may be assessed utilizing more sensitive soil and groundwater standards. However, as the development plans are not yet finalized, all data in this report has been compared to the Table 3 SCS. Presently, Terrapex is working with the Site owners to identify the environmental constraints for the development plan and determine the appropriate standards for the various portions of the property requiring Phase Two ESAs for a Record of Site Condition.

3.3 ANALYTICAL RESULTS

3.3.1 SOIL

Laboratory results for the soil samples submitted to BV for analyses are summarized in Tables 2A through 2F along with the corresponding MECP Table 3 SCS.

Concentrations of all analysed parameters in soil were less than the Table 3 SCS with the exception of EC in several soil samples located across the Site. However, based on a comparison of soil data to the stratified Table 5 SCS, many soil samples do not exceed the Table 5 SCS for EC. This is due to there being no standard for EC in subsurface soil (i.e., soil below 1.5 mbg) as EC is only a concern for plants who do not come into contact with subsurface soils.

Laboratory Certificates of Analysis for the analyzed soil samples are included in Appendix III.

3.3.2 GROUNDWATER

Laboratory results for the groundwater samples submitted to BV for analyses are summarized in Tables 3A through 3D. Concentrations of all analyzed parameters in groundwater were less than the Table 3 SCS.

Laboratory Certificates of Analysis for the groundwater samples are provided in Appendix III.

3.3.3 QA/QC RESULTS

Quality Assurance/Quality Control (QA/QC) samples collected and submitted to the laboratory by Terrapex comprised blind field duplicates of soil and groundwater samples, one methanol blank with the soil samples, and one trip blank with the groundwater

samples.

Laboratory results for the QA/QC samples are presented in the attached Tables and Laboratory Certificates of Analysis.

Based on a qualitative comparison of the duplicate soil and groundwater samples, good correlation was generally observed between the duplicate samples and their analytical pair.

Detectable concentrations of target parameters were not reported by the laboratory for any of the methanol blank or trip blank samples.

BV's QA/QC program consisted of the analyses of laboratory replicates, method blanks, reference material, matrix spikes, method spikes, and surrogate percent recoveries, as appropriate for the particular analysis protocol.

A review of the quality assurance reports attached to the laboratory certificates of analysis did not indicate any concerns with the laboratory QA/QC program results.

Overall, the QA/QC results for the project do not indicate any concerns with data quality.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on field observations and an evaluation of laboratory analytical results from the 2021/22 Due-Diligence Phase II ESA investigations, Terrapex offers the following findings and conclusions:

- The geological conditions encountered at the Site during recent environmental drilling investigations generally comprised silty clay and clayey silt to 8.5 mbg, the maximum depth of the investigation;
- No evidence of contamination was observed in any of the recovered soil samples, based on the results of field screening and borehole logging;.
- No evidence of NAPL was observed during monitoring, purging, or sampling of the monitoring wells;.
- Soil analytical results revealed that the concentrations of all analysed parameters in the submitted soil samples were less than the Table 3 SCS, with the exception of EC in several soil samples collected across the Site. However, many of the elevated EC levels exceeding the Table 3 SCS were only found in subsurface soil samples (i.e., soil deeper than 1.5 mbg). Because EC is only of environmental concern for plants and soil organisms in direct contact with surface soil (1.5 mbg or shallower), there is not a O. Reg. 153/04 generic subsurface standard for EC;
- Based on a secondary screening of soil analytical results to stratified Table 5 SCS, it can be concluded that the soil samples with reported EC levels exceeding the Table 3 SCS in only subsurface soil are not impacted; and,
- Groundwater analytical results revealed that concentrations of all analyzed parameters in groundwater were less than the Table 3 SCS (as well as the Table 5 SCS).

Although several soil and groundwater investigations have been undertaken at the Site since 2015, it must be recognized that these environmental assessment programs were completed for environmental due-diligence purposes to inform the divestiture and acquisition decisions, rather than to fully satisfy the requirements of the RSC Regulation, O. Reg. 153/04.

Furthermore, it is understood that the Grand Niagara development plans are currently conceptual in nature and subject to change as the design evolves. Based on our current understanding of the future land use and policy framework established by the Grand Niagara Secondary Plan, some portions of the development lands will require comparison of soil and groundwater analytical results to more stringent SCS to facilitate the filing of the required RSC(s). In particular, this scenario is anticipated to affect portions of the development lands located in close proximity to a more restrictive regulatory environment (e.g., environmental sensitive lands or nearby properties with drinking water wells).

Based on the findings and conclusions presented herein, it is recommended that an appropriate environmental strategy be developed though a collaborative effort between Terrapex, Empire,

Armstrong, and other relevant project team members. The environmental strategy should consider potential environmental constraints and constructability considerations in the context of the current and future property uses, the Site development plan, and its phased construction approach.

5.0 CLOSURE

This report has been completed in accordance with the terms of reference for this project as agreed upon by Empire Communities (the Client) and Terrapex Environmental Ltd. (Terrapex) and generally accepted engineering or environmental consulting practices in this area.

The reported information is believed to provide a reasonable representation of the general environmental conditions at the Site; however, studies of this nature have inherent limitations. The data were collected at specific locations and conditions may vary at other locations, or with the passage of time. The assessment was also limited to a study of those chemical parameters specifically addressed in this report.

Terrapex has relied in good faith on information and representations obtained from the Client and third parties and, except where specifically identified, has made no attempt to verify such information. Terrapex accepts no responsibility for any deficiency or inaccuracy in this report as a result of any misstatement, omission, misrepresentation, or fraudulent act of those providing information. Terrapex shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time of the study.

This report has been prepared for the sole use of Empire Communities. Terrapex accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than Empire Communities.

Respectfully submitted,
TERRAPEX ENVIRONMENTAL LTD.

Elizabeth Madden, P.Eng.
Environmental Engineer

Chris Roach, P.Eng., QP_{ESA}, QP_{RA}
Senior Project Manager

FIGURES

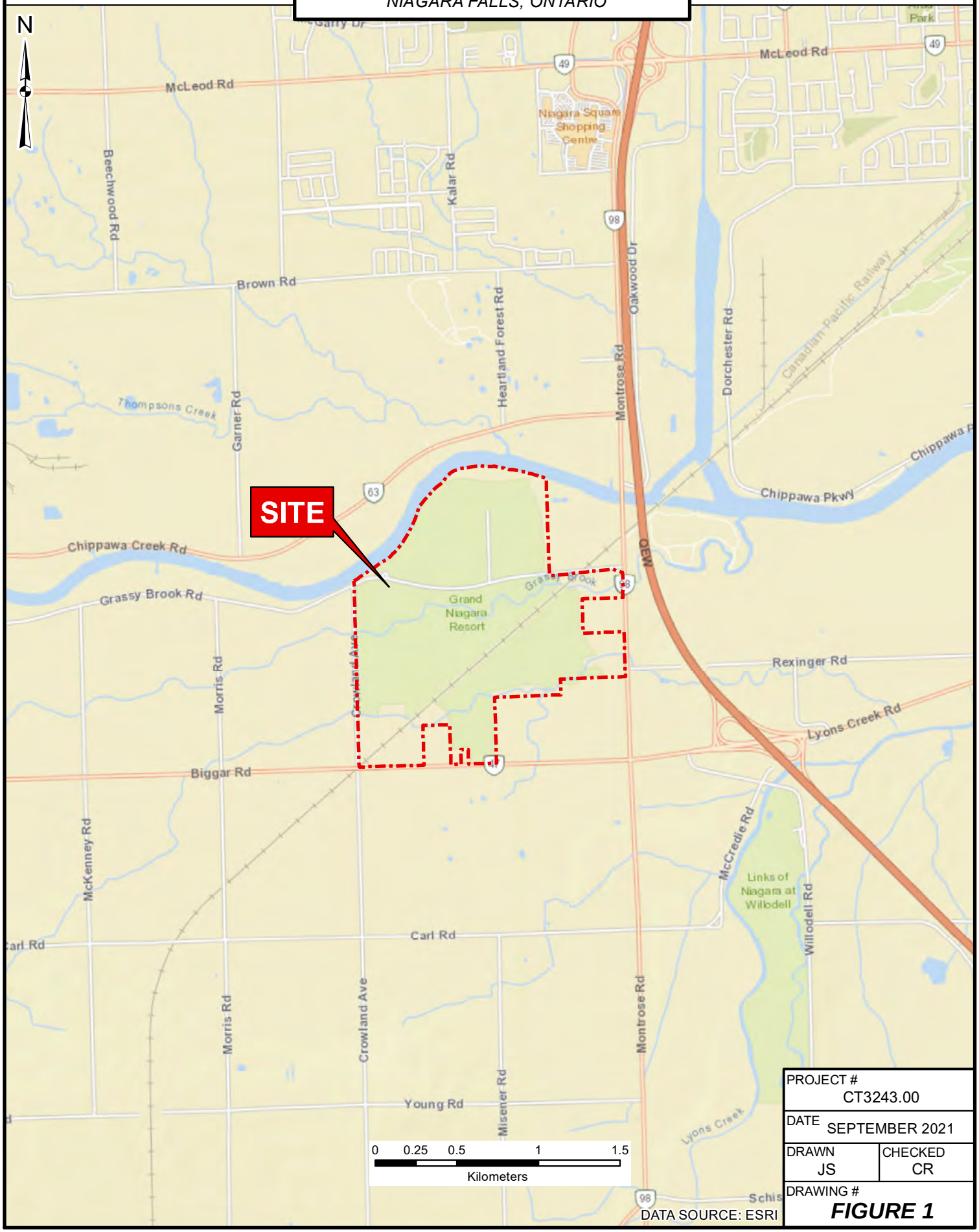
TERRAPEX

SITE LOCATION

8547 GRASSY BROOK ROAD,
NIAGARA FALLS, ONTARIO

CLIENT

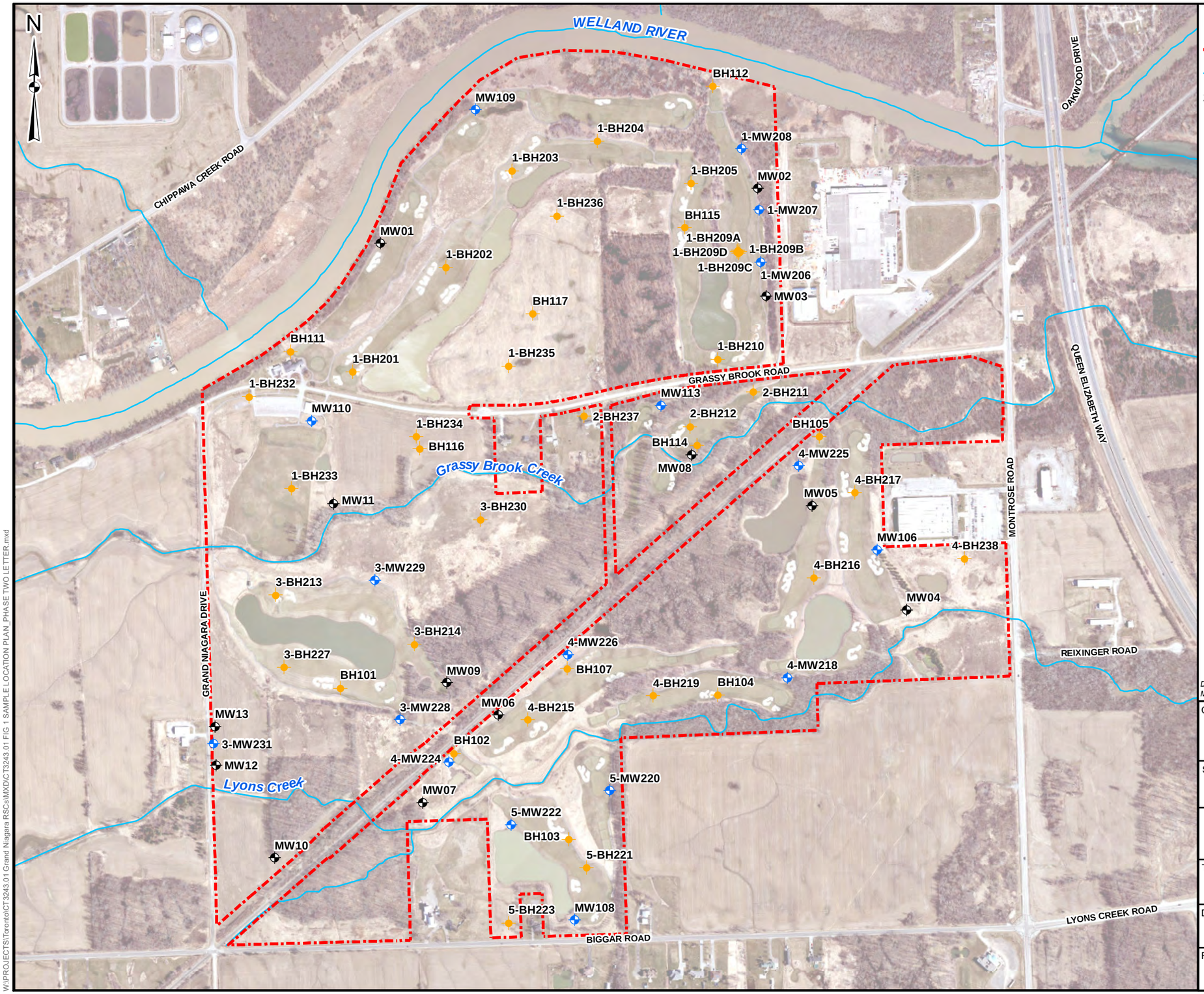
EMPIRE COMMUNITIES



DATA SOURCE: ESRI

PROJECT #	CT3243.00
DATE	SEPTEMBER 2021
DRAWN	JS
CHECKED	CR
DRAWING #	***FIGURE 1***

jserroul W:\PROJECTS\Toronto\CT3243.00 Grand Niagara\MXD\PHASE II ESA\CT3243.00 FIG 1 SITE LOCATION.mxd



LEGEND

- SITE BOUNDARY
- WATERCOURSES

SAMPLE LOCATIONS

- BOREHOLE (TERRAPEX)
- MONITORING WELL (TERRAPEX)
- MONITORING WELL (WSP)

0 100 200 300 Metres

DATA SOURCE: NIAGARA REGION
MAP PROJECTION: NAD 1983 UTM ZONE 17N

CLIENT: EMPIRE COMMUNITIES

SITE LOCATION: 8547 GRASSY BROOK ROAD
NIAGARA FALLS, ONTARIO

TERRAPEX

TITLE: **SAMPLE LOCATION PLAN**

DRAWN BY:	PROJECT NO.:	CHECKED BY:
JS	CT3243.01	CR
REVISION:	**DATE:**	**FIGURE:**
00	SEPTEMBER 2022	**2**

W:\PROJECTS\Toronto\CT3243.01 Grand Niagara RSCs\MXD\CT3243.01 FIG 1 SAMPLE LOCATION PLAN_PHASE TWO LETTER.mxd

TABLES

TABLE 1 GROUNDWATER MONITORING DATA

8547 GRASSY BROOK ROAD, PORT ROBINSON, ONTARIO

WELL NO.	GROUND ELEVATION[1]	T.O.P. ELEVATION[2]	DATE	CV[3]	TOV[4]	DEPTH TO WATER FROM T.O.P.[5]	DEPTH TO WATER FROM GROUND[6]	GROUNDWATER ELEVATION[7]	LNAPL THICKNESS[8]
MW106	179.46	180.30	06-Aug-21	<5 ppm	1 ppm	6.68	5.84	173.62	None
			12-Aug-21	<5 ppm	-	4.81	3.97	175.49	None
			19-Aug-21	<5 ppm	-	5.02	4.18	175.28	None
MW108	178.82	179.64	06-Aug-21	<5 ppm	1 ppm	1.76	0.94	177.88	None
			12-Aug-21	<5 ppm	-	1.79	0.97	177.85	None
			19-Aug-21	<5 ppm	-	1.84	1.02	177.80	None
MW109	172.45	173.29	06-Aug-21	<5 ppm	1 ppm	2.21	1.37	171.08	None
			12-Aug-21	<5 ppm	-	1.75	0.91	171.54	None
			19-Aug-21	<5 ppm	-	1.74	0.90	171.55	None
MW110	177.04	177.92	06-Aug-21	<5 ppm	1 ppm	6.19	5.31	171.73	None
			12-Aug-21	<5 ppm	-	3.79	2.91	174.13	None
			19-Aug-21	<5 ppm	-	2.55	1.67	175.37	None
MW113	176.27	177.01	06-Aug-21	<5 ppm	0 ppm	DRY	-	-	None
			12-Aug-21	<5 ppm	-	4.73	3.99	172.29	None
			19-Aug-21	<5 ppm	-	4.37	3.63	172.64	None
1-MW206	176.87	177.75	17-May-22	<5 ppm	0 ppm	1.59	0.70	176.16	None
1-MW207	176.42	177.39	17-May-22	<5 ppm	1 ppm	2.36	1.39	175.03	None
1-MW208	174.75	175.61	17-May-22	<5 ppm	2 ppm	2.03	1.17	173.58	None
MW02	176.38	177.27	17-May-22	<5 ppm	0 ppm	1.38	0.49	175.89	None
MW03	176.38	-	17-May-22	<5 ppm	0 ppm	1.48	-	-	None
MW13	177.60	-	17-May-22	<5 ppm	1 ppm	1.31	-	-	None
3-MW231	177.71	178.73	17-May-22	<5 ppm	0 ppm	1.63	0.60	177.11	None
3-MW229	179.50	180.36	17-May-22	<5 ppm	1 ppm	4.03	3.18	176.33	None
MW12	177.77	-	17-May-22	<5 ppm	0 ppm	1.75	-	-	None
3-MW228	177.54	178.27	17-May-22	<5 ppm	2 ppm	2.89	2.16	175.38	None
MW06	177.59	178.69	17-May-22	<5 ppm	1 ppm	1.28	0.17	177.42	None
4-MW224	177.79	178.34	17-May-22	<5 ppm	1 ppm	1.92	1.37	176.42	None
4-MW226	177.50	178.73	17-May-22	<5 ppm	1 ppm	1.61	0.38	177.12	None
4-MW218	176.55	177.44	17-May-22	<5 ppm	1 ppm	1.40	0.52	176.03	None
4-MW225	176.20	177.05	17-May-22	<5 ppm	1 ppm	1.86	1.01	175.19	None
5-MW220	177.66	177.51	17-May-22	<5 ppm	0 ppm	2.20	2.35	175.31	None
5-MW222	177.10	177.78	17-May-22	<5 ppm	1 ppm	1.82	1.14	175.96	None

[1] Elevation of ground surface at well location, relative to site benchmark

[2] Elevation of highest point of well pipe ("top of pipe"), relative to site benchmark

[3] Combustible vapour concentration in well headspace in parts per million (ppm) or percent of lower explosive limit (%LEL)

[4] Total organic vapour concentration in well headspace in parts per million (ppm)

[5] Measured depth to water from top of pipe

[6] Calculated depth to water from ground surface

[7] Static water level elevation, relatve to site benchmark

[8] Measured thickness of light, non-aqueous liquid, if any

- Well not monitored as it was not accessible

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	BH111-1	BH111-10 Duplicate of BH111-1	BH111-3	MW110-1	MW110-10 Duplicate of MW110-1	MW110-3	BH116-1
Sample Depth	m bg	-	-	-	0.0 - 0.76	0.0 - 0.76	1.52 - 1.89	0.0 - 0.61	0.0 - 0.61	1.52 - 2.13	0-0.05
Sampling Date	dd-mmm-yy	-	-	-	2021/08/05	2021/08/05	2021/08/08	2021/08/05	2021/08/05	2021/08/08	2021/08/06
Analysis Date (on or before)	dd-mmm-yy	-	-	-	13-Aug-21	13-Aug-21	25-Aug-21	16-Aug-21	16-Aug-21	25-Aug-21	16-Aug-21
Certificate of Analysis No.	-	-	-	-	C1M4205	C1M4205	C1N6561	C1M4205	C1M4205	C1N6561	C1M4205
pH	pH	NV	NV	NV	7.68	7.69	7.78	7.67	7.66	7.83	7.43
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.2
Arsenic	ug/g	18	18	18	4.9	5	5.9	5.1	4.6	5.3	4.6
Barium	ug/g	390	390	8,600	96	120	220	170	150	63	95
Beryllium	ug/g	5.0	5.0	60	0.77	0.81	1.3	1.1	1	0.66	0.81
Boron (total)	ug/g	120	NA	7,900	5.9	6.8	11	11	11	9.0	6.3
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.19	0.20	0.28	0.11	0.15	0.30	0.54
Cadmium	ug/g	1.2	1.2	7.9	0.1	<0.10	0.11	0.12	0.12	<0.10	0.44
Chromium Total	ug/g	160	160	18,000	26	27	34	31	30	22	26
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Cobalt	ug/g	22	22	250	13	16	17	16	14	11	13
Copper	ug/g	180	180	5,600	21	24	34	26	24	24	22
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	ug/g	120	120	1,000	13	11	14	12	12	7.3	24
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	0.78	0.6	0.58	<0.50	<0.50	0.53	0.65
Nickel	ug/g	130	130	510	30	31	52	36	34	25	25
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.15	0.15	0.17	0.17	0.18	0.11	0.36
Uranium	ug/g	23	23	300	0.74	0.84	0.73	0.75	0.74	0.72	0.76
Vanadium	ug/g	86	86	160	37	35	49	43	41	30	39
Zinc	ug/g	340	340	24,000	69	65	75	68	68	52	79
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.28	0.24	0.3	0.41	0.37	**0.88**	0.22
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.21	0.23	0.21	0.85	0.82	0.8	0.2

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

[2] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A **SOIL ANALYTICAL RESULTS - METALS & INORGANICS**

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	BH117-1	1-BH201-1	1-BH201-3B	1-BH202-1	1-BH202-4	1-BH203-1	1-BH203-4
Sample Depth	m bg	-	-	-	0-0.05	0-0.61	1.52-1.83	0-0.61	1.83-2.44	0-0.61	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2021/08/06	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/24
Analysis Date (on or before)	dd-mmm-yy	-	-	-	16-Aug-21	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22
Certificate of Analysis No.	-	-	-	-	C1M4205	C281316	C281316	C281316	C281316	C281316	C281316
pH	pH	NV	NV	NV	6.97	7.67	-	7.29	7.7	7.8	-
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	-	0.31	0.22	<0.20	-
Arsenic	ug/g	18	18	18	4.7	5.4	-	5.3	5.6	1	-
Barium	ug/g	390	390	8,600	90	120	-	86	190	7.9	-
Beryllium	ug/g	5.0	5.0	60	0.77	1.1	-	0.86	1.5	<0.20	-
Boron (total)	ug/g	120	NA	7,900	<5.0	5.1	-	<5.0	9.1	<5.0	-
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.40	0.17	-	0.19	0.098	0.057	-
Cadmium	ug/g	1.2	1.2	7.9	0.25	0.18	-	0.19	<0.10	<0.10	-
Chromium Total	ug/g	160	160	18,000	25	31	-	30	40	3.6	-
Chromium VI	ug/g	10	10	40	<0.18	0.22	-	<0.18	<0.18	<0.18	-
Cobalt	ug/g	22	22	250	11	17	-	13	19	1.4	-
Copper	ug/g	180	180	5,600	16	21	-	19	30	6.2	-
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	-	<0.01	<0.01	<0.01	-
Lead	ug/g	120	120	1,000	20	18	-	18	15	26	-
Mercury	ug/g	1.8	1.8	1.8	<0.050	0.053	-	0.083	<0.050	<0.050	-
Molybdenum	ug/g	6.9	6.9	1,200	0.81	1.1	-	1.3	<0.50	<0.50	-
Nickel	ug/g	130	130	510	21	31	-	25	44	2.9	-
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	-	<0.50	<0.50	<0.50	-
Silver	ug/g	25	25	490	<0.20	<0.20	-	0.28	<0.20	<0.20	-
Thallium	ug/g	1.0	1.0	3.3	0.25	0.17	-	0.17	0.2	<0.050	-
Uranium	ug/g	23	23	300	0.74	0.89	-	0.89	1.1	0.22	-
Vanadium	ug/g	86	86	160	38	43	-	40	53	7.6	-
Zinc	ug/g	340	340	24,000	61	78	-	75	84	14	-
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.44	0.49	**3.3**	**0.76**	**3.3**	0.13	**1.2**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.15	0.45	0.44	0.57	0.82	0.29	0.55

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	1-BH204-1	1-BH204-4	1-BH205-1	1-BH205-4	1-BH205-94 Duplicate of 1-BH205-4	1-MW206-6	1-MW206-96 Duplicate of 1-MW206-6
Sample Depth	m bg	-	-	-	0-0.61	1.83-2.44	0-0.61	1.83-2.44	1.83-2.44	3.05-3.66	3.05-3.66
Sampling Date	dd-mmm-yy	-	-	-	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/28	2022/03/28
Analysis Date (on or before)	dd-mmm-yy	-	-	-	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	6-Apr-22	6-Apr-22
Certificate of Analysis No.	-	-	-	-	C281316	C281316	C281316	C281316	C281316	C285331	C285331
pH	pH	NV	NV	NV	7.58	-	7.9	-	-	6.8	6.59
Antimony	ug/g	7.5	7.5	63	<0.20	-	<0.20	-	-	0.45	0.27
Arsenic	ug/g	18	18	18	4.2	-	1.3	-	-	5.2	5.1
Barium	ug/g	390	390	8,600	100	-	9.3	-	-	93	96
Beryllium	ug/g	5.0	5.0	60	0.82	-	<0.20	-	-	0.76	0.79
Boron (total)	ug/g	120	NA	7,900	5.9	-	<5.0	-	-	5.1	<5.0
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.14	-	0.064	-	-	0.74	0.69
Cadmium	ug/g	1.2	1.2	7.9	0.12	-	<0.10	-	-	0.31	0.27
Chromium Total	ug/g	160	160	18,000	25	-	5.3	-	-	24	25
Chromium VI	ug/g	10	10	40	<0.18	-	<0.18	-	-	<0.18	<0.18
Cobalt	ug/g	22	22	250	13	-	2.1	-	-	9.4	10
Copper	ug/g	180	180	5,600	21	-	8.3	-	-	16	17
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	-	<0.01	-	-	<0.01	<0.01
Lead	ug/g	120	120	1,000	13	-	5	-	-	27	25
Mercury	ug/g	1.8	1.8	1.8	<0.050	-	<0.050	-	-	0.14	0.089
Molybdenum	ug/g	6.9	6.9	1,200	0.65	-	<0.50	-	-	1.3	1.2
Nickel	ug/g	130	130	510	28	-	4.2	-	-	29	29
Selenium	ug/g	2.4	2.4	1,200	<0.50	-	<0.50	-	-	0.65	0.57
Silver	ug/g	25	25	490	<0.20	-	<0.20	-	-	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.14	-	<0.050	-	-	0.17	0.16
Uranium	ug/g	23	23	300	0.84	-	0.31	-	-	0.76	0.75
Vanadium	ug/g	86	86	160	34	-	13	-	-	37	36
Zinc	ug/g	340	340	24,000	61	-	25	-	-	72	70
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.34	0.31	0.11	0.41	0.39	0.6	0.54
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.35	0.21	0.31	0.28	0.46	0.4	0.39

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	1-MW207-14	1-MW208-8	1-MW208-10	1-BH209-1	1-BH209-1 Re-analysis	1-BH209-2 verticle delineation	1-BH209-4
Sample Depth	m bg	-	-	-	7.92-8.53	4.88-5.79	7.01-7.62	0-0.61	0-0.61	0.61-1.22	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2022/03/28	2022/03/29	2022/03/29	2022/03/29	2022/03/29	2022/05/03	2022/03/29
Analysis Date (on or before)	dd-mmm-yy	-	-	-	6-Apr-22	6-Apr-22	18-May-22	6-Apr-22	6-Apr-22	10-May-22	6-Apr-22
Certificate of Analysis No.	-	-	-	-	C285331	C285331	C2C9268	C285331	C285331	C2C0017	C285331
pH	pH	NV	NV	NV	7.84	7.91	-	7.62	7.62	-	-
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	-	0.23	0.23	<0.20	-
Arsenic	ug/g	18	18	18	4.9	4.1	-	5.3	5.4	5.6	-
Barium	ug/g	390	390	8,600	130	97	-	180	190	140	-
Beryllium	ug/g	5.0	5.0	60	0.9	0.7	-	1.5	1.6	1.1	-
Boron (total)	ug/g	120	NA	7,900	13	9.9	-	5.6	7.1	9.9	-
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.63	0.35	-	0.094	0.094	-	-
Cadmium	ug/g	1.2	1.2	7.9	<0.10	<0.10	-	0.15	0.12	<0.10	-
Chromium Total	ug/g	160	160	18,000	28	23	-	30	31	29	-
Chromium VI	ug/g	10	10	40	<0.18	<0.18	-	<0.18	<0.18	-	-
Cobalt	ug/g	22	22	250	16	13	-	**43**	**41**	15	-
Copper	ug/g	180	180	5,600	27	24	-	30	29	25	-
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	-	<0.01	<0.01	-	-
Lead	ug/g	120	120	1,000	9.8	7.9	-	15	14	10	-
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	-	<0.050	<0.050	-	-
Molybdenum	ug/g	6.9	6.9	1,200	0.62	0.52	-	0.94	0.8	0.52	-
Nickel	ug/g	130	130	510	34	29	-	36	35	34	-
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	-	<0.50	<0.50	<0.50	-
Silver	ug/g	25	25	490	<0.20	<0.20	-	<0.20	<0.20	<0.20	-
Thallium	ug/g	1.0	1.0	3.3	0.12	0.12	-	0.16	0.17	0.16	-
Uranium	ug/g	23	23	300	0.81	0.8	-	0.77	0.78	0.75	-
Vanadium	ug/g	86	86	160	35	31	-	42	44	41	-
Zinc	ug/g	340	340	24,000	69	59	-	76	74	67	-
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**1.7**	**0.78**	**1.4**	0.6	0.6	-	0.38
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	2.2	1.5	1.8	0.52	0.52	-	0.84

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

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Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	1-BH209A-1	1-BH9009A-1 Duplicate of 1-BH209A-1	1-BH209B-1	1-BH209C-1	1-BH209D-1	1-BH210-1	1-BH210-4
Sample Depth	m bg	-	-	-	0.45-0.61	0.45-0.61	0.45-0.61	0.45-0.61	0.45-0.61	0-0.61	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/03/29	2022/03/29
Analysis Date (on or before)	dd-mmm-yy	-	-	-	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	6-Apr-22	6-Apr-22
Certificate of Analysis No.	-	-	-	-	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C285331	C285331
pH	pH	NV	NV	NV	-	-	-	-	-	7.35	-
Antimony	ug/g	7.5	7.5	63	0.2	0.2	<0.20	<0.20	<0.20	<0.20	-
Arsenic	ug/g	18	18	18	5.3	5.8	5.3	5.2	5	2.8	-
Barium	ug/g	390	390	8,600	100	110	120	120	140	38	-
Beryllium	ug/g	5.0	5.0	60	0.83	0.79	0.91	0.92	1	0.37	-
Boron (total)	ug/g	120	NA	7,900	10	9.3	9.8	9.9	11	<5.0	-
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	-	-	-	-	-	0.082	-
Cadmium	ug/g	1.2	1.2	7.9	<0.10	<0.10	<0.10	0.1	0.12	0.1	-
Chromium Total	ug/g	160	160	18,000	26	26	27	27	30	12	-
Chromium VI	ug/g	10	10	40	-	-	-	-	-	<0.18	-
Cobalt	ug/g	22	22	250	14	14	15	14	16	6.3	-
Copper	ug/g	180	180	5,600	27	26	24	25	25	13	-
Cyanide (CN-)	ug/g	0.051	0.051	0.051	-	-	-	-	-	<0.01	-
Lead	ug/g	120	120	1,000	9.4	9.3	10	10	11	10	-
Mercury	ug/g	1.8	1.8	1.8	-	-	-	-	-	<0.050	-
Molybdenum	ug/g	6.9	6.9	1,200	0.66	0.62	0.71	0.61	0.58	<0.50	-
Nickel	ug/g	130	130	510	30	30	32	33	35	12	-
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-
Thallium	ug/g	1.0	1.0	3.3	0.15	0.14	0.15	0.16	0.17	0.071	-
Uranium	ug/g	23	23	300	0.95	0.86	0.85	0.78	0.87	0.42	-
Vanadium	ug/g	86	86	160	34	34	36	37	40	19	-
Zinc	ug/g	340	340	24,000	65	66	65	70	68	44	-
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	-	-	-	-	-	0.26	**2.6**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	-	-	-	-	-	0.21	0.85

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

[2] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	1-BH232-1A	1-BH232-2B	1-BH233-1A	1-BH233-2B	1-BH234-1A	1-BH234-91A Duplicate of 1-BH234-1A	1-BH234-2B
Sample Depth	m bg	-	-	-	0-0.61	1.83-2.44	0-0.61	1.83-2.44	0-0.61	0-0.61	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2022/04/07
Analysis Date (on or before)	dd-mmm-yy	-	-	-	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22
Certificate of Analysis No.	-	-	-	-	C296127	C296127	C296127	C296127	C296127	C296127	C296127
pH	pH	NV	NV	NV	7.81	7.98	7.84	7.96	7.86	7.11	-
Antimony	ug/g	7.5	7.5	63	0.22	<0.20	0.26	0.22	0.26	0.23	-
Arsenic	ug/g	18	18	18	4.3	7.2	4.4	4.6	5.7	6.9	-
Barium	ug/g	390	390	8,600	130	35	190	160	94	130	-
Beryllium	ug/g	5.0	5.0	60	1.1	0.5	0.96	1.1	0.98	1.1	-
Boron (total)	ug/g	120	NA	7,900	8.0	6.3	8.0	15	8.3	8.0	-
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.10	0.18	0.093	0.34	0.13	0.13	-
Cadmium	ug/g	1.2	1.2	7.9	<0.10	0.1	<0.10	<0.10	<0.10	0.12	-
Chromium Total	ug/g	160	160	18,000	31	18	29	32	30	31	-
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	-
Cobalt	ug/g	22	22	250	15	9.7	16	17	13	15	-
Copper	ug/g	180	180	5,600	25	25	25	26	26	25	-
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Lead	ug/g	120	120	1,000	12	6.9	11	12	12	13	-
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-
Molybdenum	ug/g	6.9	6.9	1,200	0.56	<0.50	<0.50	0.71	0.65	0.61	-
Nickel	ug/g	130	130	510	35	22	36	38	32	35	-
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-
Thallium	ug/g	1.0	1.0	3.3	0.17	0.088	0.2	0.2	0.2	0.2	-
Uranium	ug/g	23	23	300	0.81	0.79	0.98	1.1	1.3	1.7	-
Vanadium	ug/g	86	86	160	42	26	39	42	40	42	-
Zinc	ug/g	340	340	24,000	69	50	69	74	75	73	-
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**1.8**	**1.2**	**0.86**	**1.8**	**2.6**	**1.1**	**1.1**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.94	1	0.96	1.2	1.1	1.2	0.96

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

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Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	1-BH235-1A	1-BH235-2B	1-BH236-1A	1-BH236-2B	MW113-2	MW113-20 Duplicate of MW113-2	MW113-3
Sample Depth	m bg	-	-	-	0-0.61	1.83-2.44	0-0.61	1.83-2.44	0.76 - 1.37	0.76 - 1.37	1.52 - 2.13
Sampling Date	dd-mmm-yy	-	-	-	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2021/08/06	2021/08/06	2021/08/08
Analysis Date (on or before)	dd-mmm-yy	-	-	-	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	16-Aug-21	16-Aug-21	25-Aug-21
Certificate of Analysis No.	-	-	-	-	C296127	C296127	C296127	C296127	C1M4205	C1M4205	C1N6561
pH	pH	NV	NV	NV	7.94	7.91	7.82	7.93	7.68	7.63	7.72
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20
Arsenic	ug/g	18	18	18	4.2	4.7	5.2	7.1	4.1	4.6	5.1
Barium	ug/g	390	390	8,600	130	160	170	110	120	150	84
Beryllium	ug/g	5.0	5.0	60	0.93	0.73	1.1	0.8	0.78	0.89	0.74
Boron (total)	ug/g	120	NA	7,900	7.7	10	7.0	12	9.9	11	10
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.085	0.33	0.10	0.50	0.18	0.16	0.20
Cadmium	ug/g	1.2	1.2	7.9	0.12	<0.10	<0.10	<0.10	<0.10	0.1	<0.10
Chromium Total	ug/g	160	160	18,000	27	25	31	26	23	26	23
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Cobalt	ug/g	22	22	250	14	15	17	15	11	14	13
Copper	ug/g	180	180	5,600	25	26	26	26	21	23	23
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	ug/g	120	120	1,000	10	8	13	8.9	7.9	9.4	7.9
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	<0.50	0.7	0.59	0.84	<0.50	0.51	0.5
Nickel	ug/g	130	130	510	32	32	36	32	26	31	28
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.17	0.13	0.18	0.14	0.14	0.15	0.13
Uranium	ug/g	23	23	300	0.93	0.8	1.3	0.99	0.69	0.75	0.72
Vanadium	ug/g	86	86	160	36	33	44	36	31	36	33
Zinc	ug/g	340	340	24,000	63	62	68	64	52	59	57
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.41	0.56	**0.84**	**3.3**	**2.6**	**2.6**	**1.9**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.73	0.94	0.75	0.67	0.13	0.12	0.18

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

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Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	2-BH211-1	2-BH211-4	2-BH212-1	2-BH212-91 Duplicate of 2-BH212-1	2-BH212-4	2-BH237-1A	2-BH237-2B
Sample Depth	m bg	-	-	-	0-0.61	1.83-2.44	0-0.61	0-0.61	1.83-2.44	0-0.61	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2022/03/30	2022/03/30	2022/03/30	2022/03/30	2022/03/30	2022/04/08	2022/04/08
Analysis Date (on or before)	dd-mmm-yy	-	-	-	11-Apr-22	11-Apr-22	11-Apr-22	11-Apr-22	11-Apr-22	19-Apr-22	19-Apr-22
Certificate of Analysis No.	-	-	-	-	C289710	C289710	C289710	C289710	C289710	C296109	C296109
pH	pH	NV	NV	NV	7.87	7.63	7.44	6.57	7.75	7.6	7.92
Antimony	ug/g	7.5	7.5	63	<0.20	0.24	<0.20	<0.20	<0.20	0.31	0.22
Arsenic	ug/g	18	18	18	3.6	4.4	3.1	4.6	5	4.9	5.5
Barium	ug/g	390	390	8,600	79	120	78	110	100	130	150
Beryllium	ug/g	5.0	5.0	60	0.52	0.92	0.62	0.83	0.74	1.1	0.85
Boron (total)	ug/g	120	NA	7,900	6.6	13	<5.0	<5.0	9.6	10	12
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.12	0.30	0.057	0.067	0.18	0.062	0.26
Cadmium	ug/g	1.2	1.2	7.9	<0.10	0.11	<0.10	<0.10	<0.10	0.12	0.13
Chromium Total	ug/g	160	160	18,000	15	28	19	24	23	30	28
Chromium VI	ug/g	10	10	40	<0.18	<0.18	0.34	0.24	<0.18	0.18	<0.18
Cobalt	ug/g	22	22	250	9.2	15	10	13	14	16	16
Copper	ug/g	180	180	5,600	18	25	17	25	24	26	25
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	ug/g	120	120	1,000	6.1	10	7.4	10	8.2	11	12
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	<0.50	0.71	<0.50	<0.50	0.7	<0.50	0.91
Nickel	ug/g	130	130	510	20	33	20	29	31	36	35
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.1	0.15	0.08	0.12	0.14	0.19	0.2
Uranium	ug/g	23	23	300	0.56	0.76	0.49	0.44	0.66	0.79	0.89
Vanadium	ug/g	86	86	160	23	37	29	32	31	41	38
Zinc	ug/g	340	340	24,000	42	68	40	59	56	71	71
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.22	**0.79**	0.2	0.23	**0.75**	0.18	**1.1**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.43	1.4	0.32	0.33	0.48	0.33	0.53

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

[2] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	BH101-1	BH101-3	3-BH213-1	3-BH213-4	3-BH213-94 Duplicate of 3-BH213-4	3-BH214-1	3-BH214-4
Sample Depth	m bg	-	-	-	0.0 - 0.76	1.52 - 1.98	0-0.61	1.83-2.44	1.83-2.44	0-0.61	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2021/08/03	2021/08/03	2022/03/30	2022/03/30	2022/03/30	2022/03/30	2022/03/30
Analysis Date (on or before)	dd-mmm-yy	-	-	-	16-Aug-21	20-Aug-21	8-Apr-22	8-Apr-22	8-Apr-22	8-Apr-22	8-Apr-22
Certificate of Analysis No.	-	-	-	-	C1M4205	C1M4205	C289705	C289705	C289705	C289705	C289705
pH	pH	NV	NV	NV	7.69	7.61	7.71	7.74	7.33	7.74	7.47
Antimony	ug/g	7.5	7.5	63	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	ug/g	18	18	18	5.1	4.7	4.9	5.2	5.7	4.5	6.2
Barium	ug/g	390	390	8,600	140	100	110	120	160	110	150
Beryllium	ug/g	5.0	5.0	60	0.94	0.78	0.79	0.82	1.1	0.73	1.2
Boron (total)	ug/g	120	NA	7,900	11	10	8.2	7.3	6.0	8.0	<5.0
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.14	0.31	0.21	0.15	0.13	0.23	0.062
Cadmium	ug/g	1.2	1.2	7.9	0.1	0.13	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium Total	ug/g	160	160	18,000	28	26	25	25	30	23	26
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.18
Cobalt	ug/g	22	22	250	14	13	15	15	16	14	17
Copper	ug/g	180	180	5,600	24	22	26	29	31	23	28
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	ug/g	120	120	1,000	10	12	10	9.9	12	9.3	11
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	0.72	0.97	0.61	0.52	<0.50	0.53	0.56
Nickel	ug/g	130	130	510	34	30	31	32	38	30	36
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.17	0.16	0.13	0.15	0.17	0.12	0.13
Uranium	ug/g	23	23	300	0.9	0.9	0.81	0.82	0.79	0.72	0.65
Vanadium	ug/g	86	86	160	39	36	33	34	39	31	38
Zinc	ug/g	340	340	24,000	67	66	64	61	68	61	64
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.48	0.56	**0.98**	0.59	0.43	**0.88**	0.57
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.62	0.63	0.31	0.5	0.47	0.29	0.8

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
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Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	3-BH227-1	3-BH227-2B	3-MW228-1A	3-MW228-3B	3-MW228-93B Duplicate of 3-MW228-3B	3-MW228-7B	3-MW229-1A
Sample Depth	m bg	-	-	-	0-1.22	1.83-2.44	0-0.61	2.89-3.35	2.89-3.35	6.71-7.01	0-0.61
Sampling Date	dd-mmm-yy	-	-	-	2022/04/06	2022/04/06	2022/04/06	2022/04/06	2022/04/06	2022/04/06	2022/04/06
Analysis Date (on or before)	dd-mmm-yy	-	-	-	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22
Certificate of Analysis No.	-	-	-	-	C296102	C296102	C296102	C296102	C296102	C296102	C296102
pH	pH	NV	NV	NV	7.68	7.69	7.74	-	-	-	-
Antimony	ug/g	7.5	7.5	63	<0.20	0.22	0.24	-	-	-	-
Arsenic	ug/g	18	18	18	5.2	5.8	7.2	-	-	-	-
Barium	ug/g	390	390	8,600	130	110	150	-	-	-	-
Beryllium	ug/g	5.0	5.0	60	0.73	0.83	1.2	-	-	-	-
Boron (total)	ug/g	120	NA	7,900	9.2	8.1	6.4	-	-	-	-
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.20	0.076	0.070	-	-	-	-
Cadmium	ug/g	1.2	1.2	7.9	<0.10	<0.10	0.11	-	-	-	-
Chromium Total	ug/g	160	160	18,000	24	23	27	-	-	-	-
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	-	-	-	-
Cobalt	ug/g	22	22	250	13	12	18	-	-	-	-
Copper	ug/g	180	180	5,600	24	27	25	-	-	-	-
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	-	-	-	-
Lead	ug/g	120	120	1,000	9.1	10	13	-	-	-	-
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	-	-	-	-
Molybdenum	ug/g	6.9	6.9	1,200	0.65	0.61	0.77	-	-	-	-
Nickel	ug/g	130	130	510	30	27	36	-	-	-	-
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	-	-	-	-
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	-	-	-	-
Thallium	ug/g	1.0	1.0	3.3	0.14	0.18	0.17	-	-	-	-
Uranium	ug/g	23	23	300	0.74	0.95	0.66	-	-	-	-
Vanadium	ug/g	86	86	160	32	36	41	-	-	-	-
Zinc	ug/g	340	340	24,000	60	59	74	-	-	-	-
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**2**	**1.1**	0.45	**0.72**	0.69	**1.2**	**1.6**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.6	1.2	0.29	0.89	0.91	-	0.43

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

[2] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	3-MW229-3A	3-MW229-7A	3-MW230-1A	3-BH230-2B	3-MW231-1A	3-MW231-2	BH102-1
Sample Depth	m bg	-	-	-	2.44-3.05	6.1-6.71	0-0.61	1.83-2.44	0-0.91	1.83-2.44	0.0 - 0.76
Sampling Date	dd-mmm-yy	-	-	-	2022/04/06	2022/04/06	2022/04/06	2022/04/06	2022/04/07	2022/04/07	2021/08/03
Analysis Date (on or before)	dd-mmm-yy	-	-	-	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Aug-21
Certificate of Analysis No.	-	-	-	-	C296102	C296102	C296102	C296102	C296102	C296102	C1M4205
pH	pH	NV	NV	NV	-	-	7.87	7.9	7.81	-	7.55
Antimony	ug/g	7.5	7.5	63	-	-	0.25	0.21	<0.20	-	<0.20
Arsenic	ug/g	18	18	18	-	-	5.8	5.4	4.9	-	5.2
Barium	ug/g	390	390	8,600	-	-	150	130	140	-	140
Beryllium	ug/g	5.0	5.0	60	-	-	1.3	0.77	0.99	-	1.1
Boron (total)	ug/g	120	NA	7,900	-	-	8.8	11	11	-	11
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	-	-	0.17	0.40	0.054	-	0.16
Cadmium	ug/g	1.2	1.2	7.9	-	-	0.14	<0.10	<0.10	-	0.13
Chromium Total	ug/g	160	160	18,000	-	-	33	25	30	-	32
Chromium VI	ug/g	10	10	40	-	-	<0.18	<0.18	<0.18	-	<0.18
Cobalt	ug/g	22	22	250	-	-	21	15	15	-	15
Copper	ug/g	180	180	5,600	-	-	27	25	24	-	23
Cyanide (CN-)	ug/g	0.051	0.051	0.051	-	-	<0.01	<0.01	<0.01	-	<0.01
Lead	ug/g	120	120	1,000	-	-	13	9.3	11	-	12
Mercury	ug/g	1.8	1.8	1.8	-	-	<0.050	<0.050	<0.050	-	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	-	-	0.67	0.75	0.55	-	0.61
Nickel	ug/g	130	130	510	-	-	40	32	33	-	34
Selenium	ug/g	2.4	2.4	1,200	-	-	<0.50	<0.50	<0.50	-	<0.50
Silver	ug/g	25	25	490	-	-	<0.20	<0.20	<0.20	-	<0.20
Thallium	ug/g	1.0	1.0	3.3	-	-	0.2	0.17	0.2	-	0.2
Uranium	ug/g	23	23	300	-	-	1.1	0.79	0.81	-	0.8
Vanadium	ug/g	86	86	160	-	-	45	34	40	-	44
Zinc	ug/g	340	340	24,000	-	-	80	61	70	-	75
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**0.97**	**3.4**	0.13	**3**	0.59	0.68	0.35
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.6	-	0.61	0.46	0.9	0.95	0.32

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

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- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	BH104-1	BH107-1	BH107-3A	BH105-1	MW106-1	MW106-4	4-BH215-1
Sample Depth	m bg	-	-	-	0.0 - 0.76	0.0 - 0.76	1.52 - 1.75	0.0 - 0.76	0.0 - 0.61	2.29 - 2.89	0-0.61
Sampling Date	dd-mmm-yy	-	-	-	2021/08/03	2021/08/04	2021/08/04	2021/08/03	2021/08/04	2021/08/04	2022/03/30
Analysis Date (on or before)	dd-mmm-yy	-	-	-	16-Aug-21	16-Aug-21	20-Aug-21	13-Aug-21	16-Aug-21	20-Aug-21	8-Apr-22
Certificate of Analysis No.	-	-	-	-	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C289594
pH	pH	NV	NV	NV	7.61	7.63	7.3	7.63	7.69	7.73	7.59
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	0.21	<0.20	<0.20	0.24	<0.20
Arsenic	ug/g	18	18	18	5.3	5.1	5.2	4	4.8	5	4.3
Barium	ug/g	390	390	8,600	130	110	110	120	130	130	110
Beryllium	ug/g	5.0	5.0	60	0.86	0.85	0.84	0.88	0.87	0.95	0.81
Boron (total)	ug/g	120	NA	7,900	11	11	9.3	14	13	17	5.8
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.19	0.16	0.33	0.12	0.32	0.37	0.10
Cadmium	ug/g	1.2	1.2	7.9	0.11	<0.10	0.2	<0.10	0.11	<0.10	0.11
Chromium Total	ug/g	160	160	18,000	28	26	27	25	28	28	24
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.36
Cobalt	ug/g	22	22	250	14	13	13	13	14	15	13
Copper	ug/g	180	180	5,600	24	23	21	24	23	24	24
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	ug/g	120	120	1,000	10	10	17	9.3	9.5	8.7	11
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	0.66	0.59	0.95	0.72	0.65	0.7	<0.50
Nickel	ug/g	130	130	510	32	30	34	29	32	33	29
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.15	0.17	0.2	0.16	0.16	0.15	0.14
Uranium	ug/g	23	23	300	0.74	0.8	1.1	0.82	0.81	0.86	0.59
Vanadium	ug/g	86	86	160	38	36	39	33	37	38	33
Zinc	ug/g	340	340	24,000	68	65	79	64	67	68	55
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.27	**1.2**	**1.3**	0.48	**0.91**	**1.6**	0.64
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.41	0.84	1.1	0.17	0.37	0.87	0.69

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

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- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	4-BH215-4	4-BH216-1	4-BH216-2B	4-BH217-1A	4-BH217-2	4-MW218-1	4-MW218-91 Duplicate of 4-MW218-1
Sample Depth	m bg	-	-	-	1.83-2.44	0-0.91	1.83-2.44	0-0.91	1.83-2.44	0-0.91	0-0.91
Sampling Date	dd-mmm-yy	-	-	-	2022/03/30	2022/03/30	2022/03/30	2022/03/30	2022/03/30	2022/03/31	2022/03/31
Analysis Date (on or before)	dd-mmm-yy	-	-	-	8-Apr-22	8-Apr-22	8-Apr-22	8-Apr-22	8-Apr-22	13-Apr-22	13-Apr-22
Certificate of Analysis No.	-	-	-	-	C289594	C289594	C289594	C289594	C289594	C291245	C291245
pH	pH	NV	NV	NV	7.75	7.77	-	7.61	-	7.82	7.76
Antimony	ug/g	7.5	7.5	63	<0.20	0.26	-	<0.20	-	0.23	<0.20
Arsenic	ug/g	18	18	18	5.3	4.9	-	5.4	-	5.2	4.6
Barium	ug/g	390	390	8,600	210	110	-	86	-	140	66
Beryllium	ug/g	5.0	5.0	60	1.3	0.76	-	0.68	-	1.1	0.67
Boron (total)	ug/g	120	NA	7,900	9.2	9.2	-	7.2	-	11	7.3
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.12	0.24	-	0.082	-	0.085	0.14
Cadmium	ug/g	1.2	1.2	7.9	0.11	<0.10	-	<0.10	-	<0.10	<0.10
Chromium Total	ug/g	160	160	18,000	36	24	-	23	-	30	22
Chromium VI	ug/g	10	10	40	<0.18	<0.18	-	<0.18	-	<0.18	<0.18
Cobalt	ug/g	22	22	250	18	14	-	13	-	16	11
Copper	ug/g	180	180	5,600	30	25	-	25	-	24	20
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	-	<0.01	-	<0.01	<0.01
Lead	ug/g	120	120	1,000	14	9.1	-	9.6	-	11	7.1
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	-	<0.050	-	<0.050	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	<0.50	0.59	-	0.64	-	0.67	0.54
Nickel	ug/g	130	130	510	41	29	-	29	-	35	26
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	-	<0.50	-	<0.50	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	-	<0.20	-	<0.20	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.18	0.13	-	0.14	-	0.16	0.14
Uranium	ug/g	23	23	300	0.67	0.83	-	0.7	-	1	0.86
Vanadium	ug/g	86	86	160	49	32	-	31	-	40	29
Zinc	ug/g	340	340	24,000	71	62	-	60	-	69	55
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**0.96**	**1.5**	**1.3**	**0.76**	**0.82**	**3.5**	**3.3**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.88	0.97	0.99	0.52	0.95	0.64	0.58

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	4-MW218-3	4-MW218-93 Duplicate of 4-MW218-3	4-MW219-1	4-MW219-2	4-MW224-1	4-MW224-3	4-MW225-1
Sample Depth	m bg	-	-	-	3.05-4.27	3.05-4.27	0-1.22	1.83-2.44	0-1.22	2.44-3.66	0-0.61
Sampling Date	dd-mmm-yy	-	-	-	2022/03/31	2022/03/31	2022/03/31	2022/03/31	2022/04/01	2022/04/01	2022/04/04
Analysis Date (on or before)	dd-mmm-yy	-	-	-	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22
Certificate of Analysis No.	-	-	-	-	C291245	C291245	C291245	C291245	C291245	C291245	C291245
pH	pH	NV	NV	NV	7.96	7.97	7.85	-	7.8	-	7.94
Antimony	ug/g	7.5	7.5	63	0.24	0.24	0.23	-	<0.20	-	<0.20
Arsenic	ug/g	18	18	18	4.7	4.8	5.3	-	4.6	-	4.4
Barium	ug/g	390	390	8,600	130	120	150	-	130	-	150
Beryllium	ug/g	5.0	5.0	60	0.82	0.89	1.1	-	0.8	-	0.96
Boron (total)	ug/g	120	NA	7,900	16	19	12	-	8.8	-	11
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.44	0.47	0.33	-	0.071	-	0.094
Cadmium	ug/g	1.2	1.2	7.9	<0.10	0.1	0.11	-	<0.10	-	<0.10
Chromium Total	ug/g	160	160	18,000	26	27	31	-	24	-	28
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	-	0.24	-	<0.18
Cobalt	ug/g	22	22	250	15	16	17	-	13	-	15
Copper	ug/g	180	180	5,600	26	24	26	-	23	-	24
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	-	<0.01	-	<0.01
Lead	ug/g	120	120	1,000	8.7	9.6	11	-	8.7	-	10
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	-	<0.050	-	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	0.83	0.93	0.73	-	0.5	-	<0.50
Nickel	ug/g	130	130	510	31	34	37	-	30	-	34
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	-	<0.50	-	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	-	<0.20	-	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.13	0.18	0.19	-	0.16	-	0.16
Uranium	ug/g	23	23	300	0.78	0.87	1.1	-	0.78	-	0.95
Vanadium	ug/g	86	86	160	34	36	41	-	34	-	37
Zinc	ug/g	340	340	24,000	65	71	77	-	59	-	64
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**2.4**	**3.7**	**1.2**	0.4	0.27	0.2	**0.85**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	1.3	0.87	0.71	0.7	0.41	0.32	1.4

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- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	4-MW225-91 Duplicate of 4-MW225-1	4-MW225-3A	4-MW225-5B	4-MW226-1	4-MW226-3	4-MW226-7	4-BH238-1A
Sample Depth	m bg	-	-	-	0-0.61	2.44-3.05	4.88-5.49	0-1.22	2.44-3.66	7.01 -7.62	0-0.61
Sampling Date	dd-mmm-yy	-	-	-	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/08
Analysis Date (on or before)	dd-mmm-yy	-	-	-	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	18-May-22	19-Apr-22
Certificate of Analysis No.	-	-	-	-	C291245	C291245	C291245	C291245	C291245	C2C9270	C296106
pH	pH	NV	NV	NV	7.82	7.91	-	6.77	-	-	7.79
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	-	<0.20	-	-	0.28
Arsenic	ug/g	18	18	18	4.8	4.6	-	4.7	-	-	5
Barium	ug/g	390	390	8,600	200	120	-	180	-	-	160
Beryllium	ug/g	5.0	5.0	60	1.2	0.72	-	1.3	-	-	0.86
Boron (total)	ug/g	120	NA	7,900	12	14	-	9.1	-	-	11
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.054	0.33	-	0.073	-	-	0.13
Cadmium	ug/g	1.2	1.2	7.9	0.14	<0.10	-	0.13	-	-	0.12
Chromium Total	ug/g	160	160	18,000	34	24	-	32	-	-	27
Chromium VI	ug/g	10	10	40	0.3	<0.18	-	0.24	-	-	<0.18
Cobalt	ug/g	22	22	250	17	14	-	22	-	-	14
Copper	ug/g	180	180	5,600	27	25	-	23	-	-	25
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	-	<0.01	-	-	<0.01
Lead	ug/g	120	120	1,000	12	9	-	14	-	-	11
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	-	<0.050	-	-	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	<0.50	0.77	-	0.55	-	-	0.58
Nickel	ug/g	130	130	510	40	30	-	35	-	-	33
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	-	<0.50	-	-	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	-	<0.20	-	-	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.19	0.13	-	0.19	-	-	0.21
Uranium	ug/g	23	23	300	1	0.83	-	0.8	-	-	0.93
Vanadium	ug/g	86	86	160	45	32	-	46	-	-	38
Zinc	ug/g	340	340	24,000	74	58	-	71	-	-	67
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**0.79**	**1.7**	**2**	**0.93**	**1.1**	**1.4**	**1.5**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	1.3	1.4	-	0.68	0.99	1.3	0.61

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

[1] Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

[2] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds Table 3 standard

Value Exceeds Table 5 standard

Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	4-BH238-2B	BH103-1	BH103-3	MW108-1	5-MW220-1	5-MW220-3	5-BH221-1
Sample Depth	m bg	-	-	-	1.83-2.44	0.0 - 0.76	1.52 - 1.98	0.0 - 0.61	0-1.22	2.44-3.05	0-0.61
Sampling Date	dd-mmm-yy	-	-	-	2022/04/08	2021/08/03	2021/08/03	2021/08/04	2022/03/31	2022/03/31	2022/04/04
Analysis Date (on or before)	dd-mmm-yy	-	-	-	19-Apr-22	16-Aug-21	20-Aug-21	16-Aug-21	11-Apr-22	11-Apr-22	11-Apr-22
Certificate of Analysis No.	-	-	-	-	C296106	C1M4205	C1M4205	C1M4205	C291833	C291833	C291833
pH	pH	NV	NV	NV	7.87	7.65	7.72	7.85	7.41	-	7.81
Antimony	ug/g	7.5	7.5	63	<0.20	<0.20	0.2	<0.20	0.2	-	<0.20
Arsenic	ug/g	18	18	18	5.6	5.6	4.9	4	5.3	-	4.9
Barium	ug/g	390	390	8,600	65	140	160	190	160	-	160
Beryllium	ug/g	5.0	5.0	60	0.49	0.92	1.1	0.95	1.3	-	1
Boron (total)	ug/g	120	NA	7,900	5.8	10	14	11	6.4	-	6.2
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	0.20	0.17	0.23	0.069	0.10	-	0.090
Cadmium	ug/g	1.2	1.2	7.9	<0.10	0.11	<0.10	<0.10	0.12	-	0.17
Chromium Total	ug/g	160	160	18,000	18	31	31	30	32	-	28
Chromium VI	ug/g	10	10	40	<0.18	<0.18	<0.18	<0.18	<0.18	-	<0.18
Cobalt	ug/g	22	22	250	9.3	14	15	15	18	-	17
Copper	ug/g	180	180	5,600	25	25	25	24	28	-	28
Cyanide (CN-)	ug/g	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01
Lead	ug/g	120	120	1,000	7.2	12	11	11	14	-	14
Mercury	ug/g	1.8	1.8	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	<0.50	0.59	0.74	<0.50	<0.50	-	0.75
Nickel	ug/g	130	130	510	21	34	35	34	39	-	37
Selenium	ug/g	2.4	2.4	1,200	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Silver	ug/g	25	25	490	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20
Thallium	ug/g	1.0	1.0	3.3	0.076	0.19	0.17	0.19	0.2	-	0.16
Uranium	ug/g	23	23	300	0.75	0.81	1	0.93	0.69	-	0.54
Vanadium	ug/g	86	86	160	25	41	41	40	43	-	39
Zinc	ug/g	340	340	24,000	47	75	72	65	77	-	69
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	**0.83**	0.37	**0.79**	0.37	0.33	**0.74**	0.5
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.96	0.6	0.68	0.71	0.35	0.34	0.46

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use- Surface Soil, Fine- to Medium-Textured Soil

[3] Table 5: Stratified SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2A SOIL ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	STANDARDS Table 5 R/P/I-Sur fine/medium	STANDARDS Table 5 R/P/I-Sub fine/medium	5-BH221-2	5-MW222-1	5-MW222-91 Duplicate of 5-MW222-1	5-MW222-2	5-BH223-1	5-BH223-2	5-BH223-2
Sample Depth	m bg	-	-	-	1.83-2.44	0-0.61	0-0.61	1.83-2.44	0-1.22	1.83-2.44	1.83-2.44
Sampling Date	dd-mmm-yy	-	-	-	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/01
Analysis Date (on or before)	dd-mmm-yy	-	-	-	11-Apr-22	11-Apr-22	11-Apr-22	11-Apr-22	11-Apr-22	11-Apr-22	18-May-22
Certificate of Analysis No.	-	-	-	-	C291833	C291833	C291833	C291833	C291833	C291833	C2C9273
pH	pH	NV	NV	NV	-	7.57	7.88	-	7.75	-	7.87
Antimony	ug/g	7.5	7.5	63	-	<0.20	0.24	-	0.23	-	0.22
Arsenic	ug/g	18	18	18	-	6	6.4	-	5.6	-	6.2
Barium	ug/g	390	390	8,600	-	150	190	-	110	-	110
Beryllium	ug/g	5.0	5.0	60	-	1.2	1.2	-	0.91	-	0.8
Boron (total)	ug/g	120	NA	7,900	-	<5.0	5.4	-	6.9	-	9.5
Boron (Hot Water Soluble)[1]	ug/g	1.5	1.5	NA	-	0.089	0.065	-	0.086	-	0.11
Cadmium	ug/g	1.2	1.2	7.9	-	0.25	0.18	-	<0.10	-	0.14
Chromium Total	ug/g	160	160	18,000	-	31	33	-	27	-	25
Chromium VI	ug/g	10	10	40	-	<0.18	<0.18	-	<0.18	-	<0.18
Cobalt	ug/g	22	22	250	-	22	19	-	13	-	15
Copper	ug/g	180	180	5,600	-	22	29	-	25	-	26
Cyanide (CN-)	ug/g	0.051	0.051	0.051	-	<0.01	<0.01	-	<0.01	-	<0.01
Lead	ug/g	120	120	1,000	-	14	14	-	10	-	13
Mercury	ug/g	1.8	1.8	1.8	-	<0.050	0.052	-	<0.050	-	<0.050
Molybdenum	ug/g	6.9	6.9	1,200	-	0.71	0.62	-	0.52	-	0.77
Nickel	ug/g	130	130	510	-	34	42	-	30	-	32
Selenium	ug/g	2.4	2.4	1,200	-	<0.50	<0.50	-	<0.50	-	<0.50
Silver	ug/g	25	25	490	-	<0.20	<0.20	-	<0.20	-	<0.20
Thallium	ug/g	1.0	1.0	3.3	-	0.15	0.18	-	0.16	-	0.14
Uranium	ug/g	23	23	300	-	1.1	0.93	-	0.92	-	0.94
Vanadium	ug/g	86	86	160	-	43	43	-	35	-	35
Zinc	ug/g	340	340	24,000	-	82	84	-	67	-	83
Electrical Conductivity (mS/cm)	mS/cm	0.70	0.70	NA	0.44	**1.2**	**1.8**	**0.88**	**3.7**	**1.6**	**2.4**
Sodium Adsorption Ratio	N/A	5.0	5.0	NA	0.33	1.1	1.3	0.94	0.8	0.79	0.67

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

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Residential/Parkland/Institutional Property-Use- Subsurface Soil, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds Table 3 standard
Value Exceeds Table 5 standard
Value Detection limit exceeds Table 3 standard

[4] Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 2B SOIL ANALYTICAL RESULTS - PAHs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	1-MW206-5	1-MW206-95 Duplicate of 1-MW206-5	1-MW207-13	1-MW208-8	1-BH232-1A	3-MW228-1B	3-MW228-91B Duplicate of 3-MW228-1B	BH107-1	MW106-1
Sample Depth	m bg	-	2.44-3.05	2.44-3.05	7.32-7.92	4.88-5.79	0-0.61	0.61-1.22	0.61-1.22	0.0 - 0.76	0.0 - 0.61
Sampling Date	dd-mmm-yy	-	2022/03/28	2022/03/28	2022/03/28	2022/03/29	2022/04/07	2022/04/06	2022/04/06	2021/08/04	2021/08/04
Analysis Date (on or before)	dd-mmm-yy	-	6-Apr-22	6-Apr-22	6-Apr-22	6-Apr-22	21-Apr-22	16-Apr-22	16-Apr-22	16-Aug-21	16-Aug-21
Certificate of Analysis No.	-	-	C285331	C285331	C285331	C285331	C296127	C296102	C296102	C1M4205	C1M4205
Acenaphthene	ug/g	58	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	ug/g	0.17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	ug/g	0.74	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benz[a]anthracene	ug/g	0.63	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[a]pyrene	ug/g	0.30	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[b]fluoranthene	ug/g	0.78	0.0065	0.0075	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[ghi]perylene	ug/g	7.8	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[k]fluoranthene	ug/g	0.78	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	ug/g	7.8	0.0053	0.0051	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dibenz[a h]anthracene	ug/g	0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/g	0.69	0.0092	0.014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluorene	ug/g	69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Indeno[1 2 3-cd]pyrene	ug/g	0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Methlynaphthalene, 2-(1-)[1]	ug/g	3.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Naphthalene	ug/g	0.75	<0.0050	0.0069	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phenanthrene	ug/g	7.8	0.0075	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Pyrene	ug/g	78	0.0073	0.017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds standard

Value Detection limit exceeds standard

[1] the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B SOIL ANALYTICAL RESULTS - PAHs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	4-MW218-1	4-MW218-91 Duplicate of 4-MW218-1	4-MW224-1	4-MW225-1	4-MW225-91 Duplicate of 4-MW225-1	4-MW226-1
Sample Depth	m bg	-	0-0.91	0-0.91	0-1.22	0-0.61	0-0.61	0-1.22
Sampling Date	dd-mmm-yy	-	2022/03/31	2022/03/31	2022/04/01	2022/04/04	2022/04/04	2022/04/04
Analysis Date (on or before)	dd-mmm-yy	-	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22
Certificate of Analysis No.	-	-	C291245	C291245	C291245	C291245	C291245	C291245
Acenaphthene	ug/g	58	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	ug/g	0.17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	ug/g	0.74	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benz[a]anthracene	ug/g	0.63	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[a]pyrene	ug/g	0.30	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[b]fluoranthene	ug/g	0.78	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[ghi]perylene	ug/g	7.8	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[k]fluoranthene	ug/g	0.78	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	ug/g	7.8	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dibenz[a h]anthracene	ug/g	0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/g	0.69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluorene	ug/g	69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Indeno[1 2 3-cd]pyrene	ug/g	0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Methlynaphthalene, 2-(1-)[1]	ug/g	3.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Naphthalene	ug/g	0.75	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phenanthrene	ug/g	7.8	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Pyrene	ug/g	78	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

CSV Reading Combustible soil vapour reading (in %LEL or ppm)

TOV Reading Total organic vapour reading (in ppm)

Value Exceeds standard

Value Detection limit exceeds standard

[1] the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	1-BH201-3B	1-BH202-1	1-BH203-4	1-BH204-1	1-BH205-4	1-BH205-94 Duplicate of 1-BH205-4	1-MW206-5	1-MW206-95 Duplicate of 1-MW206-5	1-MW207-13
Sample Depth	m bg	-	1.52-1.83	0-0.61	1.83-2.44	0-0.61	1.83-2.44	1.83-2.44	2.44-3.05	2.44-3.05	7.32-7.92
Sampling Date	dd-mmm-yy	-	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/24	2022/03/28	2022/03/28	2022/03/28
Analysis Date (on or before)	dd-mmm-yy	-	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	1-Apr-22	6-Apr-22	6-Apr-22	6-Apr-22
Certificate of Analysis No.	-	-	C281316	C281316	C281316	C281316	C281316	C281316	C285331	C285331	C285331
Benzene	ug/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.047	0.057	<0.0060
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.24	0.41	<0.020
Ethylbenzene	ug/g	15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	0.026	<0.010
Xylene Mixture	ug/g	25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020	<0.020
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	<10	<10	83	36	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	<50	<50	1100	620	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
- m bg meters below grade
- CSV Reading Combustible soil vapour reading (in %LEL or ppm)
- TOV Reading Total organic vapour reading (in ppm)
- **Value** Exceeds standard
- *Value* Detection limit exceeds standard
- [1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	1-MW208-8	1-BH209-4	1-BH210-4	1-BH232-1A	1-BH233-1A	1-BH234-1A	1-BH235-2B	1-BH236-1A	2-BH211-1
Sample Depth	m bg	-	4.88-5.79	1.83-2.44	1.83-2.44	0-0.61	0-0.61	0-0.61	1.83-2.44	0-0.61	0-0.61
Sampling Date	dd-mmm-yy	-	2022/03/29	2022/03/29	2022/03/29	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2022/04/07	2022/03/30
Analysis Date (on or before)	dd-mmm-yy	-	6-Apr-22	6-Apr-22	6-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22	11-Apr-22
Certificate of Analysis No.	-	-	C285331	C285331	C285331	C296127	C296127	C296127	C296127	C296127	C289710
Benzene	ug/g	0.17	<0.0060	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	ug/g	25	<0.020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds standard
Value Detection limit exceeds standard
[1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	2-BH212-1	2-BH212-91 Duplicate of 2-BH212-1	2-BH237-1A	3-BH213-1	3-BH214-1	3-BH227-1	3-MW228-1A	3-MW228-7B	3-MW228-97B Duplicate of 3-MW228-7B
Sample Depth	m bg	-	0-0.61	0-0.61	0-0.61	0-0.61	0-0.61	0-1.22	0-0.61	6.71-7.01	6.71-7.01
Sampling Date	dd-mmm-yy	-	2022/03/30	2022/03/30	2022/04/08	2022/03/30	2022/03/30	2022/04/06	2022/04/06	2022/04/06	2022/04/06
Analysis Date (on or before)	dd-mmm-yy	-	11-Apr-22	11-Apr-22	19-Apr-22	8-Apr-22	8-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22
Certificate of Analysis No.	-	-	C289710	C289710	C296109	C289705	C289705	C296102	C296102	C296102	C296102
Benzene	ug/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.0060	<0.0060
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	0.032	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010
Xylene Mixture	ug/g	25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.020
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	<50	<50	<50	64	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
- m bg meters below grade
- CSV Reading Combustible soil vapour reading (in %LEL or ppm)
- TOV Reading Total organic vapour reading (in ppm)
- **Value** Exceeds standard
- *Value* Detection limit exceeds standard
- [1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	3-MW229-7A	3-MW230-1A	3-MW231-1A	3-MW231-6A	3-MW231-96A Duplicate of 3-MW231-6A	BH102-2	BH102-20 Duplicate of BH102-2	BH107-1	BH105-2
Sample Depth	m bg	-	6.1-6.71	0-0.61	0-0.91	5.18-5.63	5.18-5.63	0.76 - 1.52	0.76 - 1.52	0.0 - 0.76	0.76 - 1.52
Sampling Date	dd-mmm-yy	-	2022/04/06	2022/04/06	2022/04/07	2022/04/07	2022/04/07	2021/08/03	2021/08/03	2021/08/04	2021/08/03
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	12-Aug-21	12-Aug-21	16-Aug-21	12-Aug-21
Certificate of Analysis No.	-	-	C296102	C296102	C296102	C296102	C296102	C1M4205	C1M4205	C1M4205	C1M4205
Benzene	ug/g	0.17	<0.0060	<0.020	<0.020	<0.0060	<0.0060	<0.020	<0.020	<0.020	<0.020
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.010	<0.020	<0.020	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	ug/g	25	<0.020	<0.040	<0.040	<0.020	<0.020	<0.040	<0.040	<0.040	<0.040
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds standard
Value Detection limit exceeds standard
[1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	MW106-1	MW106-9	MW106-90 Duplicate of MW106-9	4-BH215-1	4-BH216-1	4-BH217-1A	4-MW218-1	4-MW218-91 Duplicate of 4-MW218-1	4-MW218-4
Sample Depth	m bg	-	0.0 - 0.61	6.10 - 6.70	6.10 - 6.70	0-0.61	0-0.91	0-0.91	0-0.91	0-0.91	4.27-4.88
Sampling Date	dd-mmm-yy	-	2021/08/04	2021/08/04	2021/08/04	2022/03/30	2022/03/30	2022/03/30	2022/03/31	2022/03/31	2022/03/31
Analysis Date (on or before)	dd-mmm-yy	-	16-Aug-21	13-Aug-21	13-Aug-21	8-Apr-22	8-Apr-22	8-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22
Certificate of Analysis No.	-	-	C1M4205	C1M4205	C1M4205	C289594	C289594	C289594	C291245	C291245	C291245
Benzene	ug/g	0.17	<0.020	<0.0060	<0.0060	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.020	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	ug/g	25	<0.040	<0.020	<0.020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
- m bg meters below grade
- CSV Reading Combustible soil vapour reading (in %LEL or ppm)
- TOV Reading Total organic vapour reading (in ppm)
- **Value** Exceeds standard
- *Value* Detection limit exceeds standard
- [1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	4-MW219-1	4-MW224-1	4-MW225-1	4-MW225-91 Duplicate of 4-MW225-1	4-MW225-5B	4-MW226-1	4-BH238-1A	5-MW220-1	5-BH221-1
Sample Depth	m bg	-	0-1.22	0-1.22	0-0.61	0-0.61	4.88-5.49	0-1.22	0-0.61	0-1.22	0-0.61
Sampling Date	dd-mmm-yy	-	2022/03/31	2022/04/01	2022/04/04	2022/04/04	2022/04/04	2022/04/04	2022/04/08	2022/03/31	2022/04/04
Analysis Date (on or before)	dd-mmm-yy	-	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	19-Apr-22	11-Apr-22	11-Apr-22
Certificate of Analysis No.	-	-	C291245	C291245	C291245	C291245	C291245	C291245	C296106	C291833	C291833
Benzene	ug/g	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.0060	<0.020
Toluene	ug/g	6.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.010	<0.020
Xylene Mixture	ug/g	25	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.020	<0.040
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10	<10	11	<10	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50	<50	60	<50	<50	<50	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50	<50	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
- m bg meters below grade
- CSV Reading Combustible soil vapour reading (in %LEL or ppm)
- TOV Reading Total organic vapour reading (in ppm)
- **Value** Exceeds standard
- *Value* Detection limit exceeds standard
- [1] F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	5-MW222-1	5-MW222-91 Duplicate of 5-MW222-1	5-BH223-1
Sample Depth	m bg	-	0-0.61	0-0.61	0-1.22
Sampling Date	dd-mmm-yy	-	2022/04/04	2022/04/04	2022/04/04
Analysis Date (on or before)	dd-mmm-yy	-	11-Apr-22	11-Apr-22	11-Apr-22
Certificate of Analysis No.	-	-	C291833	C291833	C291833
Benzene	ug/g	0.17	<0.020	<0.020	<0.020
Toluene	ug/g	6.0	<0.020	<0.020	<0.020
Ethylbenzene	ug/g	15	<0.020	<0.020	<0.020
Xylene Mixture	ug/g	25	<0.040	<0.040	<0.040
Petroleum Hydrocarbons F1[1]	ug/g	65	<10	<10	<10
Petroleum Hydrocarbons F2	ug/g	150	<10	<10	<10
Petroleum Hydrocarbons F3	ug/g	1,300	<50	<50	<50
Petroleum Hydrocarbons F4	ug/g	5,600	<50	<50	<50
Petroleum Hydrocarbons F4G	ug/g	5,600	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
- m bg meters below grade
- CSV Reading Combustible soil vapour reading (in %LEL or ppm)
- TOV Reading Total organic vapour reading (in ppm)
- **Value** Exceeds standard
- *Value* Detection limit exceeds standard
- [1] F1 fraction does not include BTEX.

TABLE 2D SOIL ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	1-MW206-5	1-MW206-95 Duplicate of 1-MW206-5	1-MW207-13	1-MW208-8
Sample Depth	m bg	-	2.44-3.05	2.44-3.05	7.32-7.92	4.88-5.79
Sampling Date	dd-mmm-yy	-	2022/03/28	2022/03/28	2022/03/28	2022/03/29
Analysis Date (on or before)	dd-mmm-yy	-	6-Apr-22	6-Apr-22	6-Apr-22	6-Apr-22
Certificate of Analysis No.	-	-	C285331	C285331	C285331	C285331
Acetone	ug/g	28	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	ug/g	13	<0.040	<0.040	<0.040	<0.040
Bromoform	ug/g	0.26	<0.040	<0.040	<0.040	<0.040
Bromomethane	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	ug/g	0.12	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	ug/g	2.7	<0.040	<0.040	<0.040	<0.040
Chloroform	ug/g	0.18	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	ug/g	9.4	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,2-	ug/g	4.3	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,3-	ug/g	6.0	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,4-	ug/g	0.097	<0.040	<0.040	<0.040	<0.040
Dichlorodifluoromethane	ug/g	25	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,1-	ug/g	11	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,2-	ug/g	0.050	<0.049	<0.049	<0.049	<0.049
Dichloroethylene, 1,1-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-cis-	ug/g	30	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-trans-	ug/g	0.75	<0.040	<0.040	<0.040	<0.040
Dichloropropane, 1,2-	ug/g	0.085	<0.040	<0.040	<0.040	<0.040
Dichloropropene,1,3-	ug/g	0.083	<0.050	<0.050	<0.050	<0.050
Ethylene dibromide	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Hexane (n)	ug/g	34	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	ug/g	44	0.42	<0.40	<0.40	<0.40
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	<0.40	<0.40	<0.40
Methyl tert-Butyl Ether (MTBE)	ug/g	1.4	<0.040	<0.040	<0.040	<0.040
Methylene Chloride	ug/g	0.96	<0.049	<0.049	<0.049	<0.049
Styrene	ug/g	2.2	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethylene	ug/g	2.3	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,1-	ug/g	3.4	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	ug/g	0.52	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	5.8	<0.040	<0.040	<0.040	<0.040
Vinyl Chloride	ug/g	0.022	<0.019	<0.019	<0.019	<0.019

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
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Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds standard
Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	3-MW228-7B	3-MW228-97B Duplicate of 3-MW228-7B	3-MW229-7A	3-MW231-6A
Sample Depth	m bg	-	6.71-7.01	6.71-7.01	6.1-6.71	5.18-5.63
Sampling Date	dd-mmm-yy	-	2022/04/06	2022/04/06	2022/04/06	2022/04/07
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22
Certificate of Analysis No.	-	-	C296102	C296102	C296102	C296102
Acetone	ug/g	28	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	ug/g	13	<0.040	<0.040	<0.040	<0.040
Bromoform	ug/g	0.26	<0.040	<0.040	<0.040	<0.040
Bromomethane	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	ug/g	0.12	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	ug/g	2.7	<0.040	<0.040	<0.040	<0.040
Chloroform	ug/g	0.18	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	ug/g	9.4	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,2-	ug/g	4.3	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,3-	ug/g	6.0	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,4-	ug/g	0.097	<0.040	<0.040	<0.040	<0.040
Dichlorodifluoromethane	ug/g	25	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,1-	ug/g	11	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,2-	ug/g	0.050	<0.049	<0.049	<0.049	<0.049
Dichloroethylene, 1,1-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-cis-	ug/g	30	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-trans-	ug/g	0.75	<0.040	<0.040	<0.040	<0.040
Dichloropropane, 1,2-	ug/g	0.085	<0.040	<0.040	<0.040	<0.040
Dichloropropene,1,3-	ug/g	0.083	<0.050	<0.050	<0.050	<0.050
Ethylene dibromide	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Hexane (n)	ug/g	34	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	ug/g	44	<0.40	<0.40	<0.40	<0.40
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	<0.40	<0.40	<0.40
Methyl tert-Butyl Ether (MTBE)	ug/g	1.4	<0.040	<0.040	<0.040	<0.040
Methylene Chloride	ug/g	0.96	<0.049	<0.049	<0.049	<0.049
Styrene	ug/g	2.2	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethylene	ug/g	2.3	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,1-	ug/g	3.4	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	ug/g	0.52	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	5.8	<0.040	<0.040	<0.040	<0.040
Vinyl Chloride	ug/g	0.022	<0.019	<0.019	<0.019	<0.019

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds standard
Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	3-MW231-96A Duplicate of 3-MW231-6A	MW106-9	MW106-90 Duplicate of MW106-9	5-MW220-1
Sample Depth	m bg	-	5.18-5.63	6.10 - 6.70	6.10 - 6.70	0-1.22
Sampling Date	dd-mmm-yy	-	2022/04/07	2021/08/04	2021/08/04	2022/03/31
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-22	13-Aug-21	13-Aug-21	11-Apr-22
Certificate of Analysis No.	-	-	C296102	C1M4205	C1M4205	C291833
Acetone	ug/g	28	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	ug/g	13	<0.040	<0.040	<0.040	<0.040
Bromoform	ug/g	0.26	<0.040	<0.040	<0.040	<0.040
Bromomethane	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	ug/g	0.12	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	ug/g	2.7	<0.040	<0.040	<0.040	<0.040
Chloroform	ug/g	0.18	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	ug/g	9.4	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,2-	ug/g	4.3	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,3-	ug/g	6.0	<0.040	<0.040	<0.040	<0.040
Dichlorobenzene, 1,4-	ug/g	0.097	<0.040	<0.040	<0.040	<0.040
Dichlorodifluoromethane	ug/g	25	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,1-	ug/g	11	<0.040	<0.040	<0.040	<0.040
Dichloroethane, 1,2-	ug/g	0.050	<0.049	<0.049	<0.049	<0.049
Dichloroethylene, 1,1-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-cis-	ug/g	30	<0.040	<0.040	<0.040	<0.040
Dichloroethylene, 1,2-trans-	ug/g	0.75	<0.040	<0.040	<0.040	<0.040
Dichloropropane, 1,2-	ug/g	0.085	<0.040	<0.040	<0.040	<0.040
Dichloropropene,1,3-	ug/g	0.083	<0.050	<0.050	<0.050	<0.050
Ethylene dibromide	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Hexane (n)	ug/g	34	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	ug/g	44	<0.40	<0.40	<0.40	<0.40
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	<0.40	<0.40	<0.40
Methyl tert-Butyl Ether (MTBE)	ug/g	1.4	<0.040	<0.040	<0.040	<0.040
Methylene Chloride	ug/g	0.96	<0.049	<0.049	<0.049	<0.049
Styrene	ug/g	2.2	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Tetrachloroethylene	ug/g	2.3	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,1-	ug/g	3.4	<0.040	<0.040	<0.040	<0.040
Trichloroethane, 1,1,2-	ug/g	0.050	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	ug/g	0.52	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	ug/g	5.8	<0.040	<0.040	<0.040	<0.040
Vinyl Chloride	ug/g	0.022	<0.019	<0.019	<0.019	<0.019

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
CSV Reading Combustible soil vapour reading (in %LEL or ppm)
TOV Reading Total organic vapour reading (in ppm)
Value Exceeds standard
Value Detection limit exceeds standard

TABLE 2E SOIL ANALYTICAL RESULTS - PCBs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	BH111-1	MW110-1	BH116-1	BH117-1	1-MW206-6	1-MW206-96 Duplicate of 1-MW206-6	1-MW207-14	1-MW208-8	1-BH234-1A
Sample Depth	m bg	-	0.0 - 0.76	0.0 - 0.61	0-0.05	0-0.05	3.05-3.66	3.05-3.66	7.92-8.53	4.88-5.79	0-0.61
Sampling Date	dd-mmm-yy	-	2021/08/05	2021/08/05	2021/08/06	2021/08/06	2022/03/28	2022/03/28	2022/03/28	2022/03/29	2022/04/07
Analysis Date (on or before)	dd-mmm-yy	-	13-Aug-21	16-Aug-21	16-Aug-21	16-Aug-21	6-Apr-22	6-Apr-22	6-Apr-22	6-Apr-22	21-Apr-22
Certificate of Analysis No.	-	-	C1M4205	C1M4205	C1M4205	C1M4205	C285331	C285331	C285331	C285331	C296127
Polychlorinated Biphenyls	ug/g	0.35	<0.015	<0.015	<0.015	<0.015	<0.010	0.01	<0.010	<0.010	<0.015

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2E SOIL ANALYTICAL RESULTS - PCBs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	1-BH234-91A Duplicate of 1-BH234-1A	1-BH235-1A	1-BH236-1A	MW113-1	MW113-10 Duplicate of MW113-1	BH101-1	3-MW229-1A	3-MW229-91A	3-MW230-1A
Sample Depth	m bg	-	0-0.61	0-0.61	0-0.61	0.0 - 0.61	0.0 - 0.61	0.0 - 0.76	0-0.61	0-0.61	0-0.61
Sampling Date	dd-mmm-yy	-	2022/04/07	2022/04/07	2022/04/07	2021/08/06	2021/08/06	2021/08/03	2022/04/06	2022/04/06	2022/04/06
Analysis Date (on or before)	dd-mmm-yy	-	21-Apr-22	21-Apr-22	21-Apr-22	13-Aug-21	13-Aug-21	16-Aug-21	16-Apr-22	16-Apr-22	16-Apr-22
Certificate of Analysis No.	-	-	C296127	C296127	C296127	C1M4205	C1M4205	C1M4205	C296102	C296102	C296102
Polychlorinated Biphenyls	ug/g	0.35	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2E SOIL ANALYTICAL RESULTS - PCBs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	3-MW231-1A	BH102-1	BH104-1	BH107-1	BH105-1	MW106-1	BH103-1	BH103-10 Field Duplicate of BH103-1	MW108-1
Sample Depth	m bg	-	0-0.91	0.0 - 0.76	0.0 - 0.76	0.0 - 0.76	0.0 - 0.76	0.0 - 0.61	0.0 - 0.76	1.52 - 1.98	0.0 - 0.61
Sampling Date	dd-mmm-yy	-	2022/04/07	2021/08/03	2021/08/03	2021/08/04	2021/08/03	2021/08/04	2021/08/03	2021/08/03	2021/08/04
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-22	16-Aug-21	16-Aug-21	16-Aug-21	13-Aug-21	16-Aug-21	16-Aug-21	20-Aug-21	16-Aug-21
Certificate of Analysis No.	-	-	C296102	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205
Polychlorinated Biphenyls	ug/g	0.35	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2F SOIL ANALYTICAL RESULTS - OCPs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	BH111-1	MW110-1	BH116-1	BH117-1	1-BH234-1A	1-BH234-91A Duplicate of 1-BH234-1A	1-BH235-1A	1-BH236-1A
Sample Depth	m bg	-	0.0 - 0.76	0.0 - 0.61	0-0.05	0-0.05	0-0.61	0-0.61	0-0.61	0-0.61
Sampling Date	dd-mmm-yy	-	2021/08/05	2021/08/05	2021/08/06	2021/08/06	2022/04/07	2022/04/07	2022/04/07	2022/04/07
Analysis Date (on or before)	dd-mmm-yy	-	13-Aug-21	16-Aug-21	16-Aug-21	16-Aug-21	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22
Certificate of Analysis No.	-	-	C1M4205	C1M4205	C1M4205	C1M4205	C296127	C296127	C296127	C296127
Aldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chlordane	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDD	ug/g	3.3	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDE	ug/g	0.33	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDT	ug/g	1.4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dieldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endrin	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor	ug/g	0.15	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor Epoxide	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobenzene	ug/g	0.52	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobutadiene	ug/g	0.014	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorocyclohexane Gamma-	ug/g	0.063	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachloroethane	ug/g	0.071	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Methoxychlor	ug/g	0.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2F SOIL ANALYTICAL RESULTS - OCPs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	MW113-1	MW113-10 Duplicate of MW113-1	BH101-1	3-MW229-1A	3-MW229-91A	3-MW230-1A	3-MW231-1A	BH102-1
Sample Depth	m bg	-	0.0 - 0.61	0.0 - 0.61	0.0 - 0.76	0-0.61	0-0.61	0-0.61	0-0.91	0.0 - 0.76
Sampling Date	dd-mmm-yy	-	2021/08/06	2021/08/06	2021/08/03	2022/04/06	2022/04/06	2022/04/06	2022/04/07	2021/08/03
Analysis Date (on or before)	dd-mmm-yy	-	13-Aug-21	13-Aug-21	16-Aug-21	16-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	16-Aug-21
Certificate of Analysis No.	-	-	C1M4205	C1M4205	C1M4205	C296102	C296102	C296102	C296102	C1M4205
Aldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chlordane	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDD	ug/g	3.3	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDE	ug/g	0.33	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDT	ug/g	1.4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dieldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endrin	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor	ug/g	0.15	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor Epoxide	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobenzene	ug/g	0.52	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobutadiene	ug/g	0.014	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorocyclohexane Gamma-	ug/g	0.063	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachloroethane	ug/g	0.071	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Methoxychlor	ug/g	0.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2F SOIL ANALYTICAL RESULTS - OCPs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 R/P/I fine/medium	BH104-1	BH107-1	BH105-1	MW106-1	BH103-1	BH103-10 Field Duplicate of BH103-1	MW108-1
Sample Depth	m bg	-	0.0 - 0.76	0.0 - 0.76	0.0 - 0.76	0.0 - 0.61	0.0 - 0.76	1.52 - 1.98	0.0 - 0.61
Sampling Date	dd-mmm-yy	-	2021/08/03	2021/08/04	2021/08/03	2021/08/04	2021/08/03	2021/08/03	2021/08/04
Analysis Date (on or before)	dd-mmm-yy	-	16-Aug-21	16-Aug-21	13-Aug-21	16-Aug-21	16-Aug-21	20-Aug-21	16-Aug-21
Certificate of Analysis No.	-	-	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205	C1M4205
Aldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chlordane	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDD	ug/g	3.3	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDE	ug/g	0.33	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
DDT	ug/g	1.4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dieldrin	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endrin	ug/g	0.040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor	ug/g	0.15	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor Epoxide	ug/g	0.050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobenzene	ug/g	0.52	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobutadiene	ug/g	0.014	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorocyclohexane Gamma-	ug/g	0.063	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachloroethane	ug/g	0.071	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Methoxychlor	ug/g	0.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Residential/Parkland/Institutional Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
CSV Reading	Combustible soil vapour reading (in %LEL or ppm)
TOV Reading	Total organic vapour reading (in ppm)
Value	Exceeds standard
Value	Detection limit exceeds standard

TABLE 2A GROUNDWATER ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	1-MW 206	1-MW 207	MW 2000 Duplicate of 1-MW 207	1-MW 208	MW 02	MW 03	4-MW218	4-MW224	4-MW225
Screen Interval	m bg	-	1.45-4.5	5.45-8.5	-	4.55-7.6	-	-	4.55-7.6	5.15-8.2	3.05-6.1
Sampling Date	dd-mmm-yy	-	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/19	2022/05/18	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	31-May-22	31-May-22	31-May-22
Certificate of Analysis No.	-	-	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0295	C2E0295	C2E0295
Antimony	ug/L	20000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<2.5
Arsenic	ug/L	1900	9.5	<1.0	<1.0	1.2	3.1	1.7	<5.0	<1.0	<5.0
Barium	ug/L	29000	170	29	31	47	16	26	17	42	25
Beryllium	ug/L	67	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<2.0	<0.40	<2.0
Boron (total)	ug/L	45000	83	530	560	390	570	200	450	360	400
Cadmium	ug/L	2.7	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.45	<0.090	<0.45
Chromium Total	ug/L	810	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<25
Chromium VI	ug/L	140	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	ug/L	66	11	4.1	4.1	1.2	2.7	<0.50	7.5	1.2	6.2
Copper	ug/L	87	18	1.3	1.1	<0.90	<0.90	1.9	<4.5	2.5	<4.5
Cyanide (CN-)	ug/L	66	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead	ug/L	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<2.5
Mercury	ug/L	2.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Molybdenum	ug/L	9200	0.79	6	6.1	11	2	4.1	5.9	11	<2.5
Nickel	ug/L	490	17	8.7	8.7	2.9	3.3	1.9	10	3.2	13
Selenium	ug/L	63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<10
Silver	ug/L	1.5	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.45	<0.090	<0.45
Thallium	ug/L	510	<0.050	0.055	<0.050	<0.050	<0.050	<0.050	<0.25	<0.050	<0.25
Uranium	ug/L	420	1.2	20	20	7.2	31	8	24	9.1	32
Vanadium	ug/L	250	2.3	<0.50	<0.50	<0.50	0.65	0.62	<2.5	<0.50	<2.5
Zinc	ug/L	1100	9.6	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<25
Chloride	mg/L	2300000	67000	780000	770000	450000	1200000	34000	240,000	65,000	1,000,000
Sodium	ug/L	2300000	54000	580000	580000	350000	790000	130000	500000	160000	750000

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

TABLE 2A GROUNDWATER ANALYTICAL RESULTS - METALS & INORGANICS

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	4-MW226	MW06	5-MW220	5-MW222	MW3000 Duplicate of 5-MW222
Screen Interval	m bg	-	4.55-7.6	-	4.55-7.6	5.45-8.5	-
Sampling Date	dd-mmm-yy	-	2022/05/19	2022/05/19	2022/05/19	2022/05/19	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	31-May-22	31-May-22	30-May-22	30-May-22	30-May-22
Certificate of Analysis No.	-	-	C2E0295	C2E0295	C2E0300	C2E0300	C2E0300
Antimony	ug/L	20000	<2.5	<0.50	<0.50	<0.50	<0.50
Arsenic	ug/L	1900	<5.0	<1.0	2.4	6.1	6.3
Barium	ug/L	29000	27	27	21	11	11
Beryllium	ug/L	67	<2.0	<0.40	<0.40	<0.40	<0.40
Boron (total)	ug/L	45000	370	25	500	520	510
Cadmium	ug/L	2.7	<0.45	<0.090	<0.090	<0.090	<0.090
Chromium Total	ug/L	810	<25	<5.0	<5.0	<5.0	<5.0
Chromium VI	ug/L	140	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	ug/L	66	3.3	0.51	2.8	1.5	1.5
Copper	ug/L	87	<4.5	2	3.3	<0.90	<0.90
Cyanide (CN-)	ug/L	66	<1	<1	<1	<1	<1
Lead	ug/L	25	<2.5	<0.50	<0.50	<0.50	<0.50
Mercury	ug/L	2.8	<0.10	<0.10	<0.10	<0.10	<0.10
Molybdenum	ug/L	9200	7	0.73	8.8	14	14
Nickel	ug/L	490	6.4	2.4	4	2.2	2.2
Selenium	ug/L	63	<10	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	1.5	<0.45	<0.090	<0.090	<0.090	<0.090
Thallium	ug/L	510	<0.25	<0.050	<0.050	<0.050	<0.050
Uranium	ug/L	420	37	3.2	5.9	1.9	1.9
Vanadium	ug/L	250	<2.5	<0.50	<0.50	<0.50	<0.50
Zinc	ug/L	1100	<25	<5.0	<5.0	<5.0	<5.0
Chloride	mg/L	2300000	87,000	26,000	120,000	220,000	220,000
Sodium	ug/L	2300000	390000	48000	390000	380000	380000

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
Value Exceeds standard
Value Detection limit exceeds standard

TABLE 2B GROUNDWATER ANALYTICAL RESULTS - PAHs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	1-MW 206	1-MW 207	MW 2000 Duplicate of 1-MW 207	1-MW 208	MW 02	MW 03	4-MW218	4-MW224	4-MW225
Screen Interval	m bg	-	1.45-4.5	5.45-8.5	-	4.55-7.6	-	-	4.55-7.6	5.15-8.2	3.05-6.1
Sampling Date	dd-mmm-yy	-	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/19	2022/05/18	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	31-May-22	31-May-22	31-May-22
Certificate of Analysis No.	-	-	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0295	C2E0295	C2E0295
Acenaphthene	ug/L	1700	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	ug/L	1.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	ug/L	2.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz[a]anthracene	ug/L	4.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo[a]pyrene	ug/L	0.81	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
Benzo[b]fluoranthene	ug/L	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo[ghi]perylene	ug/L	0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo[k]fluoranthene	ug/L	0.40	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	ug/L	1.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz[a h]anthracene	ug/L	0.52	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	ug/L	130	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	ug/L	400	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno[1 2 3-cd]pyrene	ug/L	0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methlynaphthalene, 2-(1-)[1]	ug/L	1800	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	ug/L	6400	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	ug/L	580	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	ug/L	68	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

[1] the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B GROUNDWATER ANALYTICAL RESULTS - PAHs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	4-MW226	MW06
Screen Interval	m bg	-	4.55-7.6	-
Sampling Date	dd-mmm-yy	-	2022/05/19	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	31-May-22	31-May-22
Certificate of Analysis No.	-	-	C2E0295	C2E0295
Acenaphthene	ug/L	1700	<0.050	<0.050
Acenaphthylene	ug/L	1.8	<0.050	<0.050
Anthracene	ug/L	2.4	<0.050	<0.050
Benz[a]anthracene	ug/L	4.7	<0.050	<0.050
Benzo[a]pyrene	ug/L	0.81	<0.0090	<0.0090
Benzo[b]fluoranthene	ug/L	0.75	<0.050	<0.050
Benzo[ghi]perylene	ug/L	0.20	<0.050	<0.050
Benzo[k]fluoranthene	ug/L	0.40	<0.050	<0.050
Chrysene	ug/L	1.0	<0.050	<0.050
Dibenz[a h]anthracene	ug/L	0.52	<0.050	<0.050
Fluoranthene	ug/L	130	<0.050	<0.050
Fluorene	ug/L	400	<0.050	<0.050
Indeno[1 2 3-cd]pyrene	ug/L	0.20	<0.050	<0.050
Methlynaphthalene, 2-(1-)[1]	ug/L	1800	<0.050	<0.050
Naphthalene	ug/L	6400	<0.050	<0.050
Phenanthrene	ug/L	580	<0.030	<0.030
Pyrene	ug/L	68	<0.050	<0.050

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

[1] the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2C GROUNDWATER ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	1-MW 206	1-MW 207	MW 2000 Duplicate of 1-MW 207	1-MW 208	MW 02	MW 03	4-MW218	4-MW224	4-MW225
Screen Interval	m bg	-	1.45-4.5	5.45-8.5	-	4.55-7.6	-	-	4.55-7.6	5.15-8.2	3.05-6.1
Sampling Date	dd-mmm-yy	-	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/18	2022/05/19	2022/05/18	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	30-May-22	31-May-22	31-May-22	31-May-22
Certificate of Analysis No.	-	-	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0276	C2E0295	C2E0295	C2E0295
Benzene	ug/L	430	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.20	<0.20	<0.20
Toluene	ug/L	18000	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	ug/L	2300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene Mixture	ug/L	4200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40
Petroleum Hydrocarbons F1[1]	-	750	<25	<25	<25	<25	<25	<25	<25	<25	<25
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	<100	<100	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F3	ug/L	500	<200	<200	<200	<200	<200	<200	<200	<200	<200
Petroleum Hydrocarbons F4	ug/L	500	<200	<200	<200	<200	<200	<200	<200	<200	<200
Petroleum Hydrocarbons F4G	-	500	-	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

[1] F1 fraction does not include BTEX.

TABLE 2C GROUNDWATER ANALYTICAL RESULTS - PHCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	4-MW226	MW06	FIELD BLANK
Screen Interval	m bg	-	4.55-7.6	-	-
Sampling Date	dd-mmm-yy	-	2022/05/19	2022/05/19	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	31-May-22	31-May-22	30-May-22
Certificate of Analysis No.	-	-	C2E0295	C2E0295	C2E0300
Benzene	ug/L	430	<0.20	<0.20	<0.20
Toluene	ug/L	18000	<0.20	<0.20	<0.20
Ethylbenzene	ug/L	2300	<0.20	<0.20	<0.20
Xylene Mixture	ug/L	4200	<0.40	<0.40	<0.20
Petroleum Hydrocarbons F1[1]	-	750	<25	<25	-
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	-
Petroleum Hydrocarbons F3	ug/L	500	<200	<200	-
Petroleum Hydrocarbons F4	ug/L	500	<200	<200	-
Petroleum Hydrocarbons F4G	-	500	-	-	-

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

[1] F1 fraction does not include BTEX.

TABLE 2D GROUNDWATER ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	1-MW 206	1-MW 207	MW 2000 Duplicate of 1-MW 207
Screen Interval	m bg	-	1.45-4.5	5.45-8.5	-
Sampling Date	dd-mmm-yy	-	2022/05/18	2022/05/18	2022/05/18
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22	30-May-22	30-May-22
Certificate of Analysis No.	-	-	C2E0276	C2E0276	C2E0276
Acetone	ug/L	130000	56	<10	<10
Bromodichloromethane	ug/L	85000	<0.50	<0.50	<0.50
Bromoform	ug/L	770	<1.0	<1.0	<1.0
Bromomethane	ug/L	56	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	8.4	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	630	<0.20	<0.20	<0.20
Chloroform	ug/L	22	<0.20	<0.20	<0.20
Dibromochloromethane	ug/L	82000	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	ug/L	9600	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	ug/L	9600	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	ug/L	67	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	4400	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	ug/L	3100	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	ug/L	12	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	ug/L	17	<0.20	<0.20	<0.20
Dichloroethylene, 1,2-cis-	ug/L	17	<0.50	<0.50	<0.50
Dichloroethylene, 1,2-trans-	ug/L	17	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	ug/L	140	<0.20	<0.20	<0.20
Dichloropropene,1,3-	ug/L	45	<0.50	<0.50	<0.50
Ethylene dibromide	ug/L	0.83	<0.20	<0.20	<0.20
Hexane (n)	ug/L	520	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	1500000	<10	<10	<10
Methyl Isobutyl Ketone	ug/L	580000	<5.0	<5.0	<5.0
Methyl tert-Butyl Ether (MTBE)	ug/L	1400	<0.50	<0.50	<0.50
Methylene Chloride	ug/L	5500	<2.0	<2.0	<2.0
Styrene	ug/L	9100	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	ug/L	28	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	ug/L	15	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	17	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	ug/L	6700	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	ug/L	30	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	17	<0.20	<0.20	<0.20
Trichlorofluoromethane	ug/L	2500	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	1.7	<0.20	<0.20	<0.20

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

TABLE 2D GROUNDWATER ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	1-MW 208	MW 02	MW 03
Screen Interval	m bg	-	4.55-7.6	-	-
Sampling Date	dd-mmm-yy	-	2022/05/18	2022/05/18	2022/05/18
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22	30-May-22	30-May-22
Certificate of Analysis No.	-	-	C2E0276	C2E0276	C2E0276
Acetone	ug/L	130000	<10	<10	<10
Bromodichloromethane	ug/L	85000	<0.50	<0.50	<0.50
Bromoform	ug/L	770	<1.0	<1.0	<1.0
Bromomethane	ug/L	56	<0.50	<0.50	<0.50
Carbon Tetrachloride	ug/L	8.4	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	630	<0.20	<0.20	<0.20
Chloroform	ug/L	22	<0.20	<0.20	<0.20
Dibromochloromethane	ug/L	82000	<0.50	<0.50	<0.50
Dichlorobenzene, 1,2-	ug/L	9600	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	ug/L	9600	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	ug/L	67	<0.50	<0.50	<0.50
Dichlorodifluoromethane	ug/L	4400	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	ug/L	3100	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	ug/L	12	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	ug/L	17	<0.20	<0.20	<0.20
Dichloroethylene, 1,2-cis-	ug/L	17	<0.50	<0.50	<0.50
Dichloroethylene, 1,2-trans-	ug/L	17	<0.50	<0.50	<0.50
Dichloropropane, 1,2-	ug/L	140	<0.20	<0.20	<0.20
Dichloropropene,1,3-	ug/L	45	<0.50	<0.50	<0.50
Ethylene dibromide	ug/L	0.83	<0.20	<0.20	<0.20
Hexane (n)	ug/L	520	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	ug/L	1500000	<10	<10	<10
Methyl Isobutyl Ketone	ug/L	580000	<5.0	<5.0	<5.0
Methyl tert-Butyl Ether (MTBE)	ug/L	1400	<0.50	<0.50	<0.50
Methylene Chloride	ug/L	5500	<2.0	<2.0	<2.0
Styrene	ug/L	9100	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	ug/L	28	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	ug/L	15	<0.50	<0.50	<0.50
Tetrachloroethylene	ug/L	17	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	ug/L	6700	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	ug/L	30	<0.50	<0.50	<0.50
Trichloroethylene	ug/L	17	<0.20	<0.20	<0.20
Trichlorofluoromethane	ug/L	2500	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	1.7	<0.20	<0.20	<0.20

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)
Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
Value Exceeds standard
Value Detection limit exceeds standard

TABLE 2D GROUNDWATER ANALYTICAL RESULTS - VOCs

8547 Grassybrook Road, Port Robinson, Ontario

Sample Name	Units	STANDARDS Table 3 fine/medium	FIELD BLANK
Screen Interval	m bg	-	-
Sampling Date	dd-mmm-yy	-	2022/05/19
Analysis Date (on or before)	dd-mmm-yy	-	30-May-22
Certificate of Analysis No.	-	-	C2E0300
Acetone	ug/L	130000	<10
Bromodichloromethane	ug/L	85000	<0.50
Bromoform	ug/L	770	<1.0
Bromomethane	ug/L	56	<0.50
Carbon Tetrachloride	ug/L	8.4	<0.19
Chlorobenzene	ug/L	630	<0.20
Chloroform	ug/L	22	<0.20
Dibromochloromethane	ug/L	82000	<0.50
Dichlorobenzene, 1,2-	ug/L	9600	<0.40
Dichlorobenzene, 1,3-	ug/L	9600	<0.40
Dichlorobenzene, 1,4-	ug/L	67	<0.40
Dichlorodifluoromethane	ug/L	4400	<1.0
Dichloroethane, 1,1-	ug/L	3100	<0.20
Dichloroethane, 1,2-	ug/L	12	<0.49
Dichloroethylene, 1,1-	ug/L	17	<0.20
Dichloroethylene, 1,2-cis-	ug/L	17	<0.50
Dichloroethylene, 1,2-trans-	ug/L	17	<0.50
Dichloropropane, 1,2-	ug/L	140	<0.20
Dichloropropene,1,3-	ug/L	45	<0.50
Ethylene dibromide	ug/L	0.83	<0.19
Hexane (n)	ug/L	520	<1.0
Methyl Ethyl Ketone	ug/L	1500000	<10
Methyl Isobutyl Ketone	ug/L	580000	<5.0
Methyl tert-Butyl Ether (MTBE)	ug/L	1400	<0.50
Methylene Chloride	ug/L	5500	<2.0
Styrene	ug/L	9100	<0.40
Tetrachloroethane, 1,1,1,2-	ug/L	28	<0.50
Tetrachloroethane, 1,1,2,2-	ug/L	15	<0.40
Tetrachloroethylene	ug/L	17	<0.20
Trichloroethane, 1,1,1-	ug/L	6700	<0.20
Trichloroethane, 1,1,2-	ug/L	30	<0.40
Trichloroethylene	ug/L	17	<0.20
Trichlorofluoromethane	ug/L	2500	<0.50
Vinyl Chloride	ug/L	1.7	<0.20

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

Value Exceeds standard

Value Detection limit exceeds standard

APPENDIX I

BOREHOLE LOGS

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: BH101**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766538.64	EASTING (m): 651518.973 ELEV. (m) 179.43
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	179			1		65	0/1	M&I, OCP		
			0.5	178.5			2		75	5/0			
		black organics	1	178			3		100	5/0	M&I, OCP		
			1.5	177.5									
		END OF BOREHOLE											

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CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH102**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766404.43	EASTING (m): 651752.41 ELEV. (m) 177.93
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0 0.5 1 1.5	177.5 177 176.5 176			1 2 3		55 65 90	0/0 5/0 15/0	M&I, OCP BTEX, PHCs, DUP		
		END OF BOREHOLE											

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CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: BH103**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766228.05	EASTING (m): 651989.41 ELEV. (m) 179.54
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL	0	179.5									
		SILTY CLAY brown, trace organics, moist	0.5	179			1		60	0/1	M&I, OCP, DUP		
			1	178.5			2		100	0/1			
			1.5	178			3		75	5/0	M&I, OCP		
			2										
		END OF BOREHOLE											

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REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH104**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766524.86	EASTING (m): 652295.98 ELEV. (m) 177.26
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	177			1		60	5/0	M&I, OCP		
		trace wood debris	0.5	176.5									
			1				2		80	0/0			
		no debris	1.5	176									
				175.5			3		40	0/0	M&I, OCP		
		END OF BOREHOLE											

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CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH107**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766579.60	EASTING (m): 651985.69 ELEV. (m) 178.67
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	178.5			1		65	0/0	M&I, PAHs, OCPs, PHCs, BTEX		
		brown/black to grey	0.5	178									
			1	177.5			2		80	0/0			
		wet	1.5										
		brown, moist		177			3A		100	0/0	M&I		
		grey-brown	2				3B		100	0/0			
				176.5			4		70	0/0			
		END OF BOREHOLE											

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REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH111**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767231.47	EASTING (m): 651416.56 ELEV. (m) 178.69
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	178.5			1		85	10/1	M&I, OCP, DUP		
			0.5	178									
		black sand and gravel layer	1	177.5			2		100	5/0			
		brown sand and gravel layer grey	1.5	177			3		75	0/1			
		END OF BOREHOLE											

TERRAPEX

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INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH112**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767778.43	EASTING (m): 652285.90 ELEV. (m)
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0				1		75	0/0	M&I, OCP		
		brown/grey	0.5										
			1				2		100	0/0			
		END OF BOREHOLE	1.5										

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 05-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: MW106**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766824.45	EASTING (m): 652624.00 ELEV. (m) 179.46
CONTRACTOR: PROFILE DRILLING INC	METHOD: HOLLOW STEM AUGER	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONTE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	179	10		1		80	0/0	M&I, PAHs, OCP, BTEX/ PHCs		
			0.5										
			1	178.5	6		2		100	0/0			
			1.5	178									
			2	177.5	4		3		33	0/0			
			2.5	177	5		4		70	0/0	M&I		
			3	176.5									
			3.5	176	10		5		50	0/0			
			4	175.5									
			4.5	175	12		6		60	0/0			
			5	174.5	13		7		100	0/0			
			5.5	174									
		wet	6	173.5	14		8		20	0/0			
			6.5	173	15		9		70	0/0	PHCs, VOCs, Dup		
			7	172.5									
			7.5	172	6		10		100	0/0			
		END OF BOREHOLE											

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REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**MW108**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766061.97	EASTING (m): 652001.46 ELEV. (m) 178.82
CONTRACTOR: PROFILE DRILLING INC	METHOD: HOLLOW STEM AUGER	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown/grey, moist	0	178.5	11		1		90	0/0	M&I, OCP		
			0.5	178									
			1		12		2		100	0/0			
			1.5	177.5									
			2	177	13		3		100	0/0			
		brown, moist to wet	2.5	176.5	8		4		100	5/0			
			3	176									
			3.5	175.5	6		5		100	0/0			
		brown/grey, wet	4	175	4		6		100	0/1			
			4.5	174.5									
			5	174	3		7		100	0/0			
		END OF BOREHOLE											

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REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: MW109**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767730.67	EASTING (m): 651797.61 — ELEV. (m) 172.45
CONTRACTOR: PROFILE DRILLING INC	METHOD: HOLLOW STEM AUGER	
BOREHOLE DIAMETER (cm): 20 — WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 — SAND TYPE: #2	SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	172	9		1		70	0/0	M&I, OCP, DUP		
		grey	0.5										
			1	171.5	4		2		60	0/0			
			1.5	171									
			2	170.5			3		90	0/0			
		wet	2.5	170	10		4		75	0/0			
		brown	3	169.5									
			3.5	169	12		5		100	0/0	pH		
		grey	4	168.5	3		6		100	0/0			
			4.5	168									
		END OF BOREHOLE											

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LOGGED BY: SML	DRILLING DATE: 05-AUG-2021
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: MW110**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767089.98	EASTING (m): 651459.67 — ELEV. (m) 177.04
CONTRACTOR: PROFILE DRILLING INC	METHOD: HOLLOW STEM AUGER	
BOREHOLE DIAMETER (cm): 20 — WELL DIAMETER (cm): 5	SCREEN SLOT #: 10	SAND TYPE: #2 — SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	177	4		1		100	0/0	M&I, OCP, DUP		
			0.5	176.5									
			1	176	14		2		70	5/1			
		wet	1.5	175.5									
					15		3		100	0/0	M&I		
			2	175									
		moist to wet	2.5	174.5	7		4		100	0/1			
			3	174									
					11		5		90	0/1			
			3.5	173.5									
			4	173	8		6		100	0/1			
		brown/grey, wet	4.5	172.5									
					8		7		100	0/1			
			5	172									
		brown, wet	5.5	171.5			8		100	0/1			
			6	171									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 05-AUG-2021
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: BH105**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767056.40	EASTING (m): 652505.20 ELEV. (m) 177.31
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	177			1		70	10/0	M&I, OCP		
		wet	0.5	176.5									
			1				2		80	10/0	PHCs, BTEX		
				176									
			1.5										
				175.5			3		60	0/0			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 03-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**MW113**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767121.94	EASTING (m): 652178.68 ELEV. (m) 176.27
CONTRACTOR: PROFILE DRILLING INC	METHOD: HOLLOW STEM AUGER	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0	176	7		1		70	0/1	OCP, DUPLICATE		
			0.5	175.5									
		sand seam	1	175	14		2		100	0/1	M&I, DUPLICATE		
			1.5	174.5	13		3		85	0/1	M&I		
			2	174									
			2.5	173.5	10		4		100	0/1			
		moist to wet	3	173	10		5		100	0/1			
		grey, wet	3.5	172.5									
			4	172	4		6		100	0/1			
			4.5	171.5	6		7		100	0/1			
			5										
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 06-AUG-2021
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: BH114**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767020.88	EASTING (m): 652227.36 ELEV. (m) 173.69
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown/grey, trace wood debris, moist	0	173.5									
			0.5	173			1		75	5/1	M&I, PAHs, OCPs, PHCs, BEXT		
		grey, wet	1	172.5			2		90	5/1			
		no debris	1.5	172			3		90	0/1			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 06-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH115**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767475.80	EASTING (m): 652208.96 ELEV. (m) 177.77
CONTRACTOR: PROFILE DRILLING INC	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		SILTY CLAY brown, moist	0 0.5	177.5			1		80	0/0	M&I, OCP		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 06-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF: BH116**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767066.02	EASTING (m): 651698.51 ELEV. (m) 176.02
CONTRACTOR: PROFILE DRILLING INC	METHOD: SHOVEL	
BOREHOLE DIAMETER (cm): 15	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: -

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL	0	176			1			10/0	M&I,		
		SITLY CLAY brown, moist					2			10/0	OCPs		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 06-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**BH117**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767170.51	EASTING (m): 651959.92 ELEV. (m) 176.58
CONTRACTOR: PROFILE DRILLING INC.	METHOD: SHOVEL	
BOREHOLE DIAMETER (cm): 15	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: -

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	COV/TOV (ppm)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL	0	176.5			1				M&I, OCPs		
		SILTY CLAY brown, moist					2						
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: SML	DRILLING DATE: 06-AUG-2021
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: RY	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH201**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767190.33	EASTING (m): 651544.29 ELEV. (m) 178.14
CONTRACTOR: PROFILE DRILLING	METHOD: PIONJAR	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL brown-red, moist SILTY CLAY	0 0.5 1 1.5 2	178 177.5 177 176.5 176			1 2 3A 3B 4		70 85 100 100 100	<5 <5 <5 <5 <5	M&I PHCs/ BTEX, EC/SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 24-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH202**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767405.38	EASTING (m): 651735.98 ELEV. (m) 176.82
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL	0	176.5			1		20	<5	M&I, PHCs/ BTEX		
		brown, moist SILTY CLAY	0.5										
			1	176			2		100	<5			
		--- brown to dark grey		175.5			3		100	<5			
		--- mottled	1.5	175									
			2				4		100	<5	M&I, EC/ SAR		
				174.5									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 24-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH203**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767603.78	EASTING (m): 651872.30 ELEV. (m) 176.41
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SAND trace gravel, coarse grained	0	176			1		20	<5	M&I		
		brown-red, moist SILTY CLAY	0.5										
			1	175.5			2		100	<5			
			1.5	175			3		30	<5			
			2	174.5			4		100	<5	EC/SAR, PHCs/ BTEX		
		--- dark grey/black		174									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 24-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH204**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767665.07	EASTING (m): 652047.75 ELEV. (m) 174.73
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TOPSOIL	0	174.5			1		50	<5	M&I, PHCs/ BTEX		
		brown, moist SILTY CLAY	0.5	174			2		100	<5			
		brown to dark grey	1	173.5			3		100	<5			
		red-brown / moist to wet	1.5	173			4		100	<5	EC/SAR, GRAIN SIZE		
		moist	2	172.5									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 24-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH205**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767578.17	EASTING (m): 652241.52 ELEV. (m) 177.78
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0	177.5			1		20	<5	M&I		
		brown, moist SAND (FILL) trave gravel	0.5										
		brown-red, moist SILTY CLAY	1	177			2		100	<5			
				176.5			3		50	<5			
		--- trace organics grey-brown to black	1.5	176									
			2	175.5			4		100	<5	EC/SAR, PHCs/ BTEX, DUPLICATE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 24-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH209**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767437.34	EASTING (m): 652337.99 ELEV. (m) 176.53
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0	176.5									
		brown-grey, moist SILTY CLAY trace organics	0.5	176			1		15	<5/0	M&I		
			1	175.5			2		100	<5/0	M&I		
			1.5	175			3		100	<5/0			
		--- brown	2	174.5			4		100	<5/0	EC/SAR, PHCs/ BTEX		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 29-MAR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH210**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767215.95	EASTING (m): 652296.32 ELEV. (m) 177.49
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0										
		brown, moist SAND AND GRAVEL some clay	0.5	177			1		20	<5/2	M&I		
		brown, moist SILTY CLAY trace gravel	1	176.5			2			<50/0			
			1.5	176			3			<5/0			
		--- brown-red	2	175.5			4			<5/0	EC/SAR, PHCs/ BTEX, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 29-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH232**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767138.76	EASTING (m): 651331.08 ELEV. (m) 177.17
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0	177			1A			0/0	M&I, PAHs, PHCS/ BTEX		
			0.5	176.5					70				
			1				1B			0/0			
		--- no organics		176									
			1.5	175.5			2A			0/0			
			2						100		M&I, EC/ SAR		
				175			2B			0/0			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH233**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767138.76	EASTING (m): 651418.16 ELEV. (m) 175.86
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		light brown/grey, moist CLAYEY SILT trace organics	0	175.5			1A			0/0	M&I, PHCS/ BTEX		
			0.5						90				
			1	175			1B			0/0			
		--- no organics		174.5			2A			5/0			
			1.5						100				
		--- reddish-brown	2	174			2B			5/0	M&I, EC/ SAR		
				173.5									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH234**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767056.50	EASTING (m): 651675.09 ELEV. (m) 175.40
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0 0.5	175			1A		70	0/0	M&I, PHCS/ BTEX, OCPs, PCBs, DUPLICATE		
		--- no organics	1 1.5	174.5 174			1B 2A			0/0 0/0			
			2	173.5			2B		100	0/0	M&I, EC/ SAR		
		END OF BOREHOLE		173									

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH235**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767201.76	EASTING (m): 651865.66 ELEV. (m) 176.67
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown/grey, moist CLAYEY SILT trace organics	0	176.5			1A			0/0	M&I, OCPs, PCBs		
			0.5	176					65				
		--- no organics reddish-brown	1	175.5			1B			0/0			
			1.5	175			2A			0/0			
			2	174.5			2B		100	0/0	M&I, EC/ SAR, PHCs/ BTEX		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-BH236**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767510.63	EASTING (m): 651965.12 ELEV. (m) 175.70
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0	175.5			1A			0/0	M&I, PHCS/ BTEX, OCPs, PCBs		
			0.5	175					70				
		--- reddish-brown no organics	1	174.5			1B			0/0			
			1.5	174			2A			0/0			
			2	173.5			2B		100	0/0	M&I, EC/ SAR		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-MW206**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767417.23	EASTING (m): 652383.97 ELEV. (m) 176.87
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	176.5			1		10	<5/0			
		--- no organics	0.5	176			2		90	<5/0			
			1	175.5			3		-	-/-			
		--- brown to dark grey organics	1.5	175			4		100	<5/0			
		--- dark grey, wet	2	174.5			5		100	<5/0	PAHs, PHCs, VOCs, DUPLICATE		
		--- moist	2.5	174			6		100	<5/0	M&I, PCBs, DUPLICATE		
		--- dark grey to red-brown	3	173.5			7		35	<5/0			
		--- red-brown	3.5	173			8		100	<5/0			
			4	172.5									
			4.5	172									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 28-MAR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 1-MW207**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767524.69	EASTING (m): 652381.27 ELEV. (m) 176.42
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist to wet SILTY CLAY trace organics	0	176			1		25	<5/0			
		--- no organics, moist, brown	0.5										
			1	175.5			2		100	<5/0			
			1.5	175			3		100	<5/0			
			2	174.5			4		100	<5/0			
			2.5	174			5		100	<5/0			
			3	173.5			6		100	<5/0			
		--- red-brown	3.5	173									
			4	172.5			7		100	<5/0			
			4.5	172			8		100	<5/0			
			5	171.5			9		100	<5/0			
			5.5	171			10		100	<5/0			
			6	170.5			11		100	<5/0			
			6.5	170			12		100	<5/0			
		--- very soft --- red-brown to grey	7	169.5			13		100	<5/0	PAHs, PHCs, VOCs		
			7.5	169			14		100	<5/0	M&I, PCBs		
			8	168.5									
		END OF BOREHOLE	8.5	168									

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 28-MAR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**1-MW208**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767650.23	EASTING (m): 652344.36 ELEV. (m) 174.75
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	174.5			1		5				
		--- red-brown	0.5	174									
			1	173.5			2		40	<5/1			
			1.5	173			3		100	<5/1			
			2	172.5			4		100	<5/1			
			2.5	172			5		100	<5/1			
			3	171.5									
		--- very soft	3.5	171									
			4	170.5			7		100	<5/1			
			4.5	170			6		100	<5/0			
		--- brown-grey	5	169.5			8		100	<5/1	M&I, PAHS, PHCs, VOCs, PCBs		
			5.5	169			9		100	<5/1			
			6	168.5									
			6.5	168									
		--- grey	7	167.5			10		100	<5/0			
			7.5										
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 29-MAR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 2-BH211**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767149.45	EASTING (m): 652368.89 ELEV. (m) 175.72
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY SAND some clay, trace gravel	0	175.5			1		10	<5/1	M&I, PHCs/ BTEX		
		brown, moist SILTY CLAY trace gravel	0.5	175			2		40	<5/1			
			1	174.5			3		0	-			
			1.5	174									
		--- grey	2	173.5			4		100	<5/1	M&I, EC/ SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**2-BH212**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767077.20	EASTING (m): 652239.49 ELEV. (m) 174.60
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, wet SILTY CLAY trace sand	0	174.5			1		45	<5/0	M&I, PHCs/ BTEX, DUPLICATE		
		--- wet to moist	0.5	174									
			1	173.5			2		100	<5/1			
		--- moist, brown-red											
			1.5	173			3		100	<5/1			
			2	172.5			4		100	<5/1	M&I, EC/ SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**2-BH237**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4767099.72	EASTING (m): 652020.31 ELEV. (m) 177.42
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0	177			1A		70	0/0	M&I, PHCS/ BTEX		
		--- no organics moist to wet	0.5	176.5			1B			0/0			
			1	176			2A			0/0			
			1.5	175.5			2B		100	0/0	M&I, EC/ SAR, GRAIN SIZE		
			2	175									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 08-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-BH213**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766730.64	EASTING (m): 651385.55 ELEV. (m) 177.51
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0	177.5									
		brown, moist SILTY CLAY trace organics	0.5	177			1		20	<5/0	M&I, PHCs/ BTEX		
			1	176.5			2		100	<5/0			
		--- brown to dark grey	1.5	176			3		66	<5/0			
		--- brown	2	175.5			4		100	<5/0	M&I, DUPLICATE, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-BH214**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766629.13	EASTING (m): 651671.77 ELEV. (m) 177.94
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0										
		brown, moist SILTY SAND trace organics, clay	0.5	177.5			1		20	<5/1	M&I, PHCs/ BTEX		
		brown, moist SILTY CLAY trace organics	1	177			2		25	<5/1			
			1.5	176.5			3		90	<5/1			
		--- brown-grey	2	176			4		100	<5/1	M&I		
		END OF BOREHOLE		175.5									

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-BH227**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766581.91	EASTING (m): 651403.20 ELEV. (m) 178.46
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown SILTY CLAY trace gravel	0 0.5 1 1.5 2	178 177.5 177 176.5			1 2A 2B		40 100	0/0 0/0	M&I, PHCS/ BTEX M&I		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 06-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-BH230**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766886.34	EASTING (m): 651807.47 ELEV. (m) 176.76
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0	176.5			1A			10/0	M&I, PHCs/ BTEX, OCPs		
			0.5	176					60				
		--- no organics	1	175.5			1B			0/0			
			1.5	175			2A			0/0			
			2	174.5					100				
							2B			5/0	M&I, EC/ SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 06-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-MW228**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4866474.43	EASTING (m): 651641.83 ELEV. (m) 177.54
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0	177.5			1A			0/0	M&I, PHCS/ BTEX		
			0.5	177					100				
			1	176.5			1B			0/0	PAHs, DUPLICAT		
			1.5	176			2A			15/0			
			2	175.5					100				
							2B			0/0			
			2.5	175			3A			0/0			
			3	174.5					100				
							3B			0/0	EC/SAR		
			3.5	174			4A			40/0			
			4	173.5					100				
							4B			0/0			
		--- soft	4.5	173									
		--- redish brown					5A			0/0			
			5	172.5					100				
							5B			0/0			
		--- grey	5.5	172									
							6		100	30/0			
		--- wet	6	171.5									
			6.5	171			7A			0/0			
							7B			50/0	EC, PHCs, VOCS, GRAIN SIZE, DUPLICATE		
			7	170.5									
							8		100	20/0			
			7.5	170									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 06-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-MW229**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766761.90	EASTING (m): 651590.51 ELEV. (m) 179.50
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown/reddish brown CLAYEY SILT trace organics	0	179.5			1A			25/1	EC/SAR, OCPs, DUPLICAT		
			0.5	179					60				
			1	178.5			1B			15/1			
		--- brown-grey											
			1.5	178			2A			45/1			
			2	177.5					75				
							2B			15/1			
			2.5	177									
							3A			45/1	EC/SAR		
			3	176.5					100				
			3.5	176			3B			25/1			
		--- brown	4	175.5			4A			25/0			
									100				
			4.5	175			4B			15/1			
		--- light brown damp to moist	5	174.5			5		100	15/0			
			5.5	174									
			6	173.5			6		100	85/1			
			6.5	173			7A			90/1	EC, PHCs/ VOCs		
									100				
							7B			15/0			
		--- reddish-brown	7	172.5			8		100	65/0			
			7.5	172									
							9A			85/0			
			8	171.5					100				
							9B			25/0			
			8.5	171									
		END OF BOREHOLE											

TERRAPEX	LOGGED BY: RA	DRILLING DATE: 06-APR-2022
	INPUT BY: JS	MONITORING DATE:
	REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**3-MW231**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766424.82	EASTING (m): 651258.22 ELEV. (m) 177.71
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		light brown/grey, moist CLAYEY SILT trace organics	0	177.5			1A			0/0	M&I, PHCS/ BTEX, OCPs		
		--- no organics	0.5	177									
			1	176.5			1B		100	0/0			
			1.5	176									
			2	175.5			2		100	0/0	EC/SAR		
			2.5	175			3A			0/0			
			3	174.5			3B		100	0/0			
			3.5	174			4A			0/0			
		--- soft --- reddish-brown	4	173.5			4B		100	0/0			
			4.5	173			5A			0/0			
			5	172.5			5B		100				
		--- moist to wet	5.5	172			6A			0/0	PHCs/ VOCs		
		--- grey --- wet	6	171.5			6B		100	0/0			
			6.5				7		100	0/0			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 07-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**4-BH215**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766473.22	EASTING (m): 651904.69 ELEV. (m) 178.80
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF	0	178.5			1		20	<5/1	M&I, PHCs/ BTEX		
		brown, moist SILTY CLAY trace organics	0.5										
			1	178			2		90	<5/1			
				177.5									
			1.5				3		100	<5/1			
		--- red-brown to grey-brown		177									
			2				4		100	<5/1	M&I, EC/ SAR		
				176.5									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**4-BH216**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766765.84	EASTING (m): 652493.87 ELEV. (m) 177.82
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF brown, wet to moist SILTY CLAY trace organics	0 0.5	177.5			1		60	<5/0	M&I, PHCs/ BTEX		
		--- moist	1 1.5	177 176.5			2A						
			2	176			2B		75	<5/0	EC/SAR		
		END OF BOREHOLE		175.5									

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**4-BH217**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766941.40	EASTING (m): 652578.50 ELEV. (m) 177.69
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 5	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	177.5			1A				M&I, PHCs/ BTEX		
		---	0.5	177									
		brown-grey	1	176.5			1B		70	<5/0			
		---	1.5	176									
		mottles	2	175.5			2		50	<5/0	EC/SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 30-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 4-BH219**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766523.14	EASTING (m): 652163.22 ELEV. (m) 177.81
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm):	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY SANDY CLAY trace organics	0 0.5	177.5			1		50	<5/1	M&I, PHCs/ BTEX		
		--- dark grey mottles	1	177 176.5			2		60	<5/1	EC/SAR		
			1.5 2	176 175.5									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 31-MAR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**4-BH238**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766805.88	EASTING (m): 652803.36 ELEV. (m) 176.45
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist CLAYEY SILT trace organics	0				1A			0/0	M&I, PHCs/ BTEX		
			0.5	176					70				
		---	1	175.5			1B			0/0			
		no organics damp to moist											
			1.5	175			2A			0/0			
			2	174.5					100				
							2B			0/0	M&I, EC/ SAR		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: RA	DRILLING DATE: 08-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CMR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 4-MW218**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766560.86	EASTING (m): 652438.83 — ELEV. (m) 176.55
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20 — WELL DIAMETER (cm): 5	SCREEN SLOT #: 10	SAND TYPE: #2 — SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	176.5									
		--- red-brown	0.5	176									
			1	175.5			1		100	<5/1	M&I, PAHs, PHCs/ BTEX, DUPLICAT		
			1.5	175									
			2	174.5			2		100	<5/0			
			2.5	174									
			3	173.5									
			3.5	173			3		100	<5/0	M&I, EC/ SAR, DUPLICAT		
		--- brown-grey	4	172.5									
			4.5	172			4		100	40/0	PHCs/ BTEX, GRAIN SIZE		
		--- re-brown	5	171.5			5		100	<5/0			
		--- brown-grey	5.5	171									
			6	170.5			6		100	<5/0			
		--- very soft	6.5	170									
			7	169.5			7		100	10/0			
			7.5	169									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY:	DRILLING DATE: 31-MAR-2022
INPUT BY:	MONITORING DATE:
REVIEWED BY:	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 4-MW224**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766387.69	EASTING (m): 651742.85 ELEV. (m) 177.79
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		ORGANICS	0	177.5									
		brown, moist SILTY CLAY trace organics	0.5				1		60	<5/0	M&I, PAHs, PHCs/ BTEX		
		--- brown-grey	1	177									
			1.5	176.5									
			2	176			2		100	<5/0			
		--- brown-red	2.5	175.5									
			3	175			3		100	<5/0	EC/SAR		
		--- soft	3.5	174.5									
			4	174			4		100	<5/0	GRAIN SIZE		
			4.5	173.5			5		100	<5/0			
			5	173			6		100	<5/0			
			5.5	172.5			7		100	<5/0			
			6	172			8		100	-			
			6.5	171.5			9		100	-			
		--- brown-grey	7	171			10		100	-			
			7.5	170.5									
		--- grey	8	170									
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 1-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**4-MW225**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766997.17	EASTING (m): 652462.54 ELEV. (m) 176.20
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		ORGANICS brown, moist SILTY CLAY trace organics	0	176			1A		50	30/0	M&I, PAHs, PHCs/ BTEX, DUPLICAT		
			0.5	175.5			1B						
			1	175									
			1.5	174.5			2		100	<5/0			
			2	174									
			2.5	173.5			3A				M&I, EC/ SAR		
		--- brown-red	3	173					100	50/0			
			3.5	172.5			3B						
			4	172			4		100	50/0			
			4.5	171.5			5A						
		--- very osft --- brown-grey	5	171					100	85/1	EC, PHCs/ BTEX		
			5.5	170.5			5B						
			6				6		100	55/0			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 4-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 4-MW226**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766608.91	EASTING (m): 651986.89 ELEV. (m) 177.50
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	177.5									
			0.5	177			1		50	<5/0	M&I, PAHs, PHCs/ BTEX		
			1	176.5									
			1.5	176									
			2	175.5			2		100	10/0			
			2.5	175									
			3	174.5			3		100	<5/1	EC/SAR		
		--- soft	3.5	174									
			4	173.5			4		100	20/1			
		--- brown-red-grey	4.5	173									
			5	172.5									
			5.5	172			5		100	<5/0			
			6	171.5									
			6.5	171			6		100	<5/0			
		--- grey	7	170.5									
			7.5	170			7		100	10/0			
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 4-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 5-BH223**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766055.42	EASTING (m): 651864.87 ELEV. (m) 178.81
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		ORGANICS brown, moist SILTY CLAY trace organics	0 0.5 1 1.5 2	178.5 178 177.5 177 176.5			1 2		65 100	<5/0 <5/0	M&I, PHCs/ BTEX EC/SAR, GRAIN SIZE		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 1-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**5-BH221**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766169.21	EASTING (m): 652026.21 ELEV. (m) 178.83
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): -	SCREEN SLOT #: - SAND TYPE: - SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) 40 80 120 160 / N-VALUE (Blows/300mm) 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		TURF brown, moist SILTY CLAY trace organics	0 0.5 1 1.5 2	178.5 178 177.5 177 176.5			1 2		40 100	<5/0 <5/0	M&I, PHCs/ BTEX M&I, EC/ SAR		
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 1-APR-2022
INPUT BY: JS	MONITORING DATE: -
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF: 5-MW220**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766329.06	EASTING (m): 652073.83 ELEV. (m) 177.66
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		brown, moist SILTY CLAY trace organics	0	177.5									
			0.5	177			1		65	<5/0	M&I, PHCs, VOCs		
		--- red-brown	1	176.5									
			1.5	176			2		80	<5/0			
			2	175.5									
			2.5	175									
			3	174.5			3		100	<5/0	M&I, EC/ SAR		
		--- soft	3.5	174									
			4	173.5			4		100	<5/0			
		--- very soft --- grey-brown	4.5	173									
			5	172.5			5		100	<5/0	GRAIN SIZE		
			5.5	172									
			6	171.5			6		100	<5/0			
			6.5	171			7		100	<5/0			
			7	170.5			8		100	<5/1			
			7.5										
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 31-MAR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

CLIENT: EMPIRE COMMUNITIES	PROJECT NO.: CT3243.00/01	**RECORD OF:**
ADDRESS: 8547 GRASSY BROOK ROAD	STATION:	**5-MW222**
CITY/PROVINCE: PORT ROBINSON, ONTARIO	NORTHING (m): 4766258.44	EASTING (m): 651870.45 ELEV. (m) 177.10
CONTRACTOR: PROFILE DRILLING	METHOD: DIRECT PUSH	
BOREHOLE DIAMETER (cm): 20	WELL DIAMETER (cm): 5	SCREEN SLOT #: 10 SAND TYPE: #2 SEALANT TYPE: BENTONITE

SAMPLE TYPE: AUGER | DRIVEN | CORING | DYNAMIC CONE | SHELBY | SPLIT SPOON

GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa) ● 40 80 120 160 / N-VALUE (Blows/300mm) ▲ 20 40 60 80	WATER CONTENT (%) PL W.C. LL 20 40 60 80	SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
		GRASS	0	177									
		brown, moist SILTY CLAY trace organics	0.5	176.5			1		50	<5/1	M&I, PHCs/ BTEX, DUPLICAT		
			1	176									
		--- no organics grey-brown	1.5	175.5			2		100	<5/1	M&I, EC/ SAR		
			2	175									
		--- red-brown	2.5	174.5			3		100	<5/1	GRAIN SIZE		
			3	174									
			3.5	173.5			4		100	<5/1			
		--- brown	4	173									
			4.5	172.5			5		100	<5/1			
			5	172									
		--- soft	5.5	171.5			6		100	<5/1			
			6	171									
		--- very soft --- brown-grey	6.5	170.5			7		100	<5/1			
			7	170									
			7.5	169.5			8		100	<5/1			
			8	169									
			8.5										
		END OF BOREHOLE											

TERRAPEX

LOGGED BY: AP	DRILLING DATE: 1-APR-2022
INPUT BY: JS	MONITORING DATE:
REVIEWED BY: CR	PAGE 1 OF 1

APPENDIX II

LABORATORY CERTIFICATES OF ANALYSIS

Your Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Your C.O.C. #: 839290-02-01, 839290-04-01, 839290-03-01, 839290-05-01, 839290-07-01

Report Date: 2021/08/23
Report #: R6777996
Version: 4 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M4205
Received: 2021/08/09, 15:51

Sample Matrix: Soil
Samples Received: 40

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2021/08/12	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	20	2021/08/11	2021/08/11	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	4	2021/08/11	2021/08/12	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	4	2021/08/19	2021/08/19	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	3	N/A	2021/08/13		EPA 8260C m
Free (WAD) Cyanide	24	2021/08/10	2021/08/11	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	4	2021/08/18	2021/08/19	CAM SOP-00457	OMOE E3015 m
Conductivity	24	2021/08/12	2021/08/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	4	2021/08/20	2021/08/20	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	24	2021/08/11	2021/08/12	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2021/08/17	2021/08/20	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	3	2021/08/18	2021/08/20	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	4	N/A	2021/08/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	2	N/A	2021/08/12	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	8	2021/08/11	2021/08/12	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	2	2021/08/11	2021/08/12	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	2	2021/08/11	2021/08/13	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	20	2021/08/11	2021/08/16	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2021/08/19	2021/08/19	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2021/08/19	2021/08/20	CAM SOP-00447	EPA 6020B m
Moisture	34	N/A	2021/08/10	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	4	N/A	2021/08/17	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	20	2021/08/12	2021/08/13	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	20	N/A	2021/08/11	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	4	2021/08/11	2021/08/12	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	26	2021/08/11	2021/08/11	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	3	2021/08/18	2021/08/18	CAM SOP-00413	EPA 9045 D m

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

Your Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Your C.O.C. #: 839290-02-01, 839290-04-01, 839290-03-01, 839290-05-01, 839290-07-01

Report Date: 2021/08/23
Report #: R6777996
Version: 4 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M4205
Received: 2021/08/09, 15:51

Sample Matrix: Soil
Samples Received: 40

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sodium Adsorption Ratio (SAR)	2	N/A	2021/08/12	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	22	N/A	2021/08/13	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	4	N/A	2021/08/20	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	3	N/A	2021/08/12	CAM SOP-00230	EPA 8260C m

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.

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 Laboratories 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

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Your Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Your C.O.C. #: 839290-02-01, 839290-04-01, 839290-03-01, 839290-05-01, 839290-07-01

Report Date: 2021/08/23
Report #: R6777996
Version: 4 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1M4205
Received: 2021/08/09, 15:51

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ema Gitej, Senior Project Manager
Email: emese.gitej@bureauveritas.com
Phone# (905)817-5829
==========
BV Labs 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 Signature Page.

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE601		QIE602		QIE603	QIE607		
Sampling Date		2021/08/03 09:45		2021/08/03 10:30		2021/08/03 10:40	2021/08/03 11:40		
COC Number		839290-02-01		839290-02-01		839290-02-01	839290-02-01		
	UNITS	BH101-1	QC Batch	BH101-3	QC Batch	BH102-1	BH103-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.62	7509485	0.63	7524084	0.32	0.60		7509485
Inorganics									
Conductivity	mS/cm	0.48	7515271	0.56	7531430	0.35	0.37	0.002	7515271
Moisture	%	20	7510408	20	7524448	22	21	1.0	7510408
Available (CaCl2) pH	pH	7.69	7513202	7.61	7526663	7.55	7.65		7512963
WAD Cyanide (Free)	ug/g	<0.01	7511554	<0.01	7526812	<0.01	<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	7513006	<0.18	7526227	<0.18	<0.18	0.18	7513006
Metals									
Hot Water Ext. Boron (B)	ug/g	0.14	7513430	0.31	7528956	0.16	0.17	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	7513358	0.25	7528966	<0.20	<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	5.1	7513358	4.7	7528966	5.2	5.6	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	140	7513358	100	7528966	140	140	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	0.94	7513358	0.78	7528966	1.1	0.92	0.20	7513358
Acid Extractable Boron (B)	ug/g	11	7513358	10	7528966	11	10	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	0.10	7513358	0.13	7528966	0.13	0.11	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	28	7513358	26	7528966	32	31	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	14	7513358	13	7528966	15	14	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	24	7513358	22	7528966	23	25	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	10	7513358	12	7528966	12	12	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	0.72	7513358	0.97	7528966	0.61	0.59	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	34	7513358	30	7528966	34	34	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	7513358	<0.50	7528966	<0.50	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	7513358	<0.20	7528966	<0.20	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	0.17	7513358	0.16	7528966	0.20	0.19	0.050	7513358
Acid Extractable Uranium (U)	ug/g	0.90	7513358	0.90	7528966	0.80	0.81	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	39	7513358	36	7528966	44	41	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	67	7513358	66	7528966	75	75	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	7513358	<0.050	7528966	<0.050	<0.050	0.050	7513358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE609		QIE610			QIE610		
Sampling Date		2021/08/03 12:10		2021/08/03 12:30			2021/08/03 12:30		
COC Number		839290-02-01		839290-02-01			839290-02-01		
	UNITS	BH103-3	QC Batch	BH104-1	RDL	QC Batch	BH104-1 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.68	7524084	0.41		7509485			
Inorganics									
Conductivity	mS/cm	0.79	7531430	0.27	0.002	7515055	0.27	0.002	7515055
Moisture	%	20	7524448	18	1.0	7510408			
Available (CaCl2) pH	pH	7.72	7526663	7.61		7513202			
WAD Cyanide (Free)	ug/g	<0.01	7526812	<0.01	0.01	7511554			
Chromium (VI)	ug/g	<0.18	7526227	<0.18	0.18	7513006			
Metals									
Hot Water Ext. Boron (B)	ug/g	0.23	7528956	0.19	0.050	7513430			
Acid Extractable Antimony (Sb)	ug/g	0.20	7529298	<0.20	0.20	7513358			
Acid Extractable Arsenic (As)	ug/g	4.9	7529298	5.3	1.0	7513358			
Acid Extractable Barium (Ba)	ug/g	160	7529298	130	0.50	7513358			
Acid Extractable Beryllium (Be)	ug/g	1.1	7529298	0.86	0.20	7513358			
Acid Extractable Boron (B)	ug/g	14	7529298	11	5.0	7513358			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	7529298	0.11	0.10	7513358			
Acid Extractable Chromium (Cr)	ug/g	31	7529298	28	1.0	7513358			
Acid Extractable Cobalt (Co)	ug/g	15	7529298	14	0.10	7513358			
Acid Extractable Copper (Cu)	ug/g	25	7529298	24	0.50	7513358			
Acid Extractable Lead (Pb)	ug/g	11	7529298	10	1.0	7513358			
Acid Extractable Molybdenum (Mo)	ug/g	0.74	7529298	0.66	0.50	7513358			
Acid Extractable Nickel (Ni)	ug/g	35	7529298	32	0.50	7513358			
Acid Extractable Selenium (Se)	ug/g	<0.50	7529298	<0.50	0.50	7513358			
Acid Extractable Silver (Ag)	ug/g	<0.20	7529298	<0.20	0.20	7513358			
Acid Extractable Thallium (Tl)	ug/g	0.17	7529298	0.15	0.050	7513358			
Acid Extractable Uranium (U)	ug/g	1.0	7529298	0.74	0.050	7513358			
Acid Extractable Vanadium (V)	ug/g	41	7529298	38	5.0	7513358			
Acid Extractable Zinc (Zn)	ug/g	72	7529298	68	5.0	7513358			
Acid Extractable Mercury (Hg)	ug/g	<0.050	7529298	<0.050	0.050	7513358			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE706			QIE706			QIE709		
Sampling Date		2021/08/03 13:25			2021/08/03 13:25			2021/08/04 07:15		
COC Number		839290-04-01			839290-04-01			839290-04-01		
	UNITS	BH105-1	RDL	QC Batch	BH105-1 Lab-Dup	RDL	QC Batch	MW106-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.17		7509485				0.37		7509485
Inorganics										
Conductivity	mS/cm	0.48	0.002	7515055				0.91	0.002	7515271
Moisture	%	17	1.0	7510408	18	1.0	7510408			
Available (CaCl2) pH	pH	7.63		7512656				7.69		7513202
WAD Cyanide (Free)	ug/g	<0.01	0.01	7511504				<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	0.18	7513312				<0.18	0.18	7513006
Metals										
Hot Water Ext. Boron (B)	ug/g	0.12	0.050	7513761	0.11	0.050	7513761	0.32	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7513749	0.25	0.20	7513749	<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	4.0	1.0	7513749	3.7	1.0	7513749	4.8	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	120	0.50	7513749	110	0.50	7513749	130	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	0.88	0.20	7513749	0.83	0.20	7513749	0.87	0.20	7513358
Acid Extractable Boron (B)	ug/g	14	5.0	7513749	14	5.0	7513749	13	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7513749	0.12	0.10	7513749	0.11	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7513749	25	1.0	7513749	28	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7513749	13	0.10	7513749	14	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	24	0.50	7513749	24	0.50	7513749	23	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	9.3	1.0	7513749	9.5	1.0	7513749	9.5	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	0.72	0.50	7513749	0.61	0.50	7513749	0.65	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	29	0.50	7513749	29	0.50	7513749	32	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7513749	<0.50	0.50	7513749	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7513749	<0.20	0.20	7513749	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7513749	0.14	0.050	7513749	0.16	0.050	7513358
Acid Extractable Uranium (U)	ug/g	0.82	0.050	7513749	0.83	0.050	7513749	0.81	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	33	5.0	7513749	33	5.0	7513749	37	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	64	5.0	7513749	65	5.0	7513749	67	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7513749	<0.050	0.050	7513749	<0.050	0.050	7513358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE710			QIE713			QIE714		
Sampling Date		2021/08/04 08:15			2021/08/04 11:30			2021/08/04 11:50		
COC Number		839290-04-01			839290-04-01			839290-04-01		
	UNITS	MW106-4	RDL	QC Batch	BH107-1	RDL	QC Batch	BH107-3A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.87		7524084	0.84		7509485	1.1		7524084
Inorganics										
Conductivity	mS/cm	1.6	0.002	7531430	1.2	0.002	7515271	1.3	0.002	7531430
Moisture	%	22	1.0	7524448				31	1.0	7524448
Available (CaCl2) pH	pH				7.63		7513202	7.30		7526663
WAD Cyanide (Free)	ug/g	<0.01	0.01	7526812	<0.01	0.01	7511554	<0.01	0.01	7526812
Chromium (VI)	ug/g	<0.18	0.18	7526227	<0.18	0.18	7513006	<0.18	0.18	7526227
Metals										
Hot Water Ext. Boron (B)	ug/g	0.37	0.050	7528956	0.16	0.050	7513761	0.33	0.050	7528956
Acid Extractable Antimony (Sb)	ug/g	0.24	0.20	7529089	<0.20	0.20	7513358	0.21	0.20	7529298
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	7529089	5.1	1.0	7513358	5.2	1.0	7529298
Acid Extractable Barium (Ba)	ug/g	130	0.50	7529089	110	0.50	7513358	110	0.50	7529298
Acid Extractable Beryllium (Be)	ug/g	0.95	0.20	7529089	0.85	0.20	7513358	0.84	0.20	7529298
Acid Extractable Boron (B)	ug/g	17	5.0	7529089	11	5.0	7513358	9.3	5.0	7529298
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7529089	<0.10	0.10	7513358	0.20	0.10	7529298
Acid Extractable Chromium (Cr)	ug/g	28	1.0	7529089	26	1.0	7513358	27	1.0	7529298
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7529089	13	0.10	7513358	13	0.10	7529298
Acid Extractable Copper (Cu)	ug/g	24	0.50	7529089	23	0.50	7513358	21	0.50	7529298
Acid Extractable Lead (Pb)	ug/g	8.7	1.0	7529089	10	1.0	7513358	17	1.0	7529298
Acid Extractable Molybdenum (Mo)	ug/g	0.70	0.50	7529089	0.59	0.50	7513358	0.95	0.50	7529298
Acid Extractable Nickel (Ni)	ug/g	33	0.50	7529089	30	0.50	7513358	34	0.50	7529298
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7529089	<0.50	0.50	7513358	<0.50	0.50	7529298
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7529089	<0.20	0.20	7513358	<0.20	0.20	7529298
Acid Extractable Thallium (Tl)	ug/g	0.15	0.050	7529089	0.17	0.050	7513358	0.20	0.050	7529298
Acid Extractable Uranium (U)	ug/g	0.86	0.050	7529089	0.80	0.050	7513358	1.1	0.050	7529298
Acid Extractable Vanadium (V)	ug/g	38	5.0	7529089	36	5.0	7513358	39	5.0	7529298
Acid Extractable Zinc (Zn)	ug/g	68	5.0	7529089	65	5.0	7513358	79	5.0	7529298
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7529089	<0.050	0.050	7513358	<0.050	0.050	7529298

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE769		QIE771		QIE774		
Sampling Date		2021/08/04 14:30		2021/08/05 07:20		2021/08/05 09:55		
COC Number		839290-03-01		839290-03-01		839290-03-01		
	UNITS	MW108-1	QC Batch	MW109-1	QC Batch	MW110-1	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.71	7509485	0.26	7509485	0.85		7509485
Inorganics								
Conductivity	mS/cm	0.37	7515271	0.34	7515271	0.41	0.002	7515271
Moisture	%	19	7510408	15	7510408	20	1.0	7510408
Available (CaCl2) pH	pH	7.85	7513202	7.70	7512656	7.67		7513202
WAD Cyanide (Free)	ug/g	<0.01	7511554	<0.01	7511554	<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	7513006	<0.18	7513006	<0.18	0.18	7513006
Metals								
Hot Water Ext. Boron (B)	ug/g	0.069	7513430	0.15	7513430	0.11	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	7513358	<0.20	7513358	<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	4.0	7513358	4.0	7513358	5.1	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	190	7513358	98	7513358	170	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	0.95	7513358	0.64	7513358	1.1	0.20	7513358
Acid Extractable Boron (B)	ug/g	11	7513358	5.8	7513358	11	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	<0.10	7513358	0.11	7513358	0.12	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	30	7513358	22	7513358	31	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	15	7513358	13	7513358	16	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	24	7513358	21	7513358	26	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	11	7513358	12	7513358	12	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	7513358	<0.50	7513358	<0.50	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	34	7513358	25	7513358	36	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	7513358	<0.50	7513358	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	7513358	<0.20	7513358	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	0.19	7513358	0.12	7513358	0.17	0.050	7513358
Acid Extractable Uranium (U)	ug/g	0.93	7513358	0.53	7513358	0.75	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	40	7513358	29	7513358	43	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	65	7513358	54	7513358	68	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	7513358	<0.050	7513358	<0.050	0.050	7513358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE774			QIE775			QIE775	
Sampling Date		2021/08/05 09:55			2021/08/05 10:00			2021/08/05 10:00	
COC Number		839290-03-01			839290-03-01			839290-03-01	
	UNITS	MW110-1 Lab-Dup	RDL	QC Batch	MW110-10	RDL	QC Batch	MW110-10 Lab-Dup	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A				0.82		7509485		
Inorganics									
Conductivity	mS/cm				0.37	0.002	7515271		
Moisture	%				19	1.0	7510458		
Available (CaCl2) pH	pH				7.66		7513202	7.73	7513202
WAD Cyanide (Free)	ug/g				<0.01	0.01	7511554		
Chromium (VI)	ug/g				<0.18	0.18	7513006		
Metals									
Hot Water Ext. Boron (B)	ug/g				0.15	0.050	7513430		
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7513358	<0.20	0.20	7513358		
Acid Extractable Arsenic (As)	ug/g	5.3	1.0	7513358	4.6	1.0	7513358		
Acid Extractable Barium (Ba)	ug/g	160	0.50	7513358	150	0.50	7513358		
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7513358	1.0	0.20	7513358		
Acid Extractable Boron (B)	ug/g	12	5.0	7513358	11	5.0	7513358		
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7513358	0.12	0.10	7513358		
Acid Extractable Chromium (Cr)	ug/g	32	1.0	7513358	30	1.0	7513358		
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7513358	14	0.10	7513358		
Acid Extractable Copper (Cu)	ug/g	26	0.50	7513358	24	0.50	7513358		
Acid Extractable Lead (Pb)	ug/g	13	1.0	7513358	12	1.0	7513358		
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7513358	<0.50	0.50	7513358		
Acid Extractable Nickel (Ni)	ug/g	38	0.50	7513358	34	0.50	7513358		
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7513358	<0.50	0.50	7513358		
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7513358	<0.20	0.20	7513358		
Acid Extractable Thallium (Tl)	ug/g	0.18	0.050	7513358	0.18	0.050	7513358		
Acid Extractable Uranium (U)	ug/g	0.76	0.050	7513358	0.74	0.050	7513358		
Acid Extractable Vanadium (V)	ug/g	43	5.0	7513358	41	5.0	7513358		
Acid Extractable Zinc (Zn)	ug/g	71	5.0	7513358	68	5.0	7513358		
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7513358	<0.050	0.050	7513358		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE776		QIE777		QIE830		
Sampling Date		2021/08/05 13:30		2021/08/05 13:35		2021/08/05 14:35		
COC Number		839290-03-01		839290-03-01		839290-05-01		
	UNITS	BH111-1	QC Batch	BH111-10	QC Batch	BH112-1	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.21	7509485	0.23	7509485	0.23 (1)		7509485
Inorganics								
Conductivity	mS/cm	0.28	7515344	0.24	7515344	0.21	0.002	7515271
Moisture	%	20	7510408	19	7510408	19	1.0	7510408
Available (CaCl2) pH	pH	7.68	7512963	7.69	7512656	7.65		7512656
WAD Cyanide (Free)	ug/g	<0.01	7511554	<0.01	7511504	<0.01	0.01	7511504
Chromium (VI)	ug/g	<0.18	7513006	<0.18	7513312	<0.18	0.18	7513312
Metals								
Hot Water Ext. Boron (B)	ug/g	0.19	7513819	0.20	7513819	0.18	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	7513985	<0.20	7513985	0.22	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	4.9	7513985	5.0	7513985	4.8	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	96	7513985	120	7513985	130	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	0.77	7513985	0.81	7513985	0.95	0.20	7513358
Acid Extractable Boron (B)	ug/g	5.9	7513985	6.8	7513985	13	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	0.10	7513985	<0.10	7513985	<0.10	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	26	7513985	27	7513985	28	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	13	7513985	16	7513985	15	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	21	7513985	24	7513985	24	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	13	7513985	11	7513985	9.6	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	0.78	7513985	0.60	7513985	0.72	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	30	7513985	31	7513985	32	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	7513985	<0.50	7513985	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	7513985	<0.20	7513985	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	0.15	7513985	0.15	7513985	0.15	0.050	7513358
Acid Extractable Uranium (U)	ug/g	0.74	7513985	0.84	7513985	0.83	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	37	7513985	35	7513985	38	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	69	7513985	65	7513985	68	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	7513985	<0.050	7513985	<0.050	0.050	7513358

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.

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE833	QIE834			QIE834		
Sampling Date		2021/08/06 07:55	2021/08/06 08:00			2021/08/06 08:00		
COC Number		839290-05-01	839290-05-01			839290-05-01		
	UNITS	MW113-2	MW113-20	RDL	QC Batch	MW113-20 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.13	0.12		7509485			
Inorganics								
Conductivity	mS/cm	2.6	2.6	0.002	7515271			
Moisture	%	16	16	1.0	7510458			
Available (CaCl2) pH	pH	7.68	7.63		7513202			
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7511554			
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7513006			
Metals								
Hot Water Ext. Boron (B)	ug/g	0.18	0.16	0.050	7513430	0.15	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	7513358			
Acid Extractable Arsenic (As)	ug/g	4.1	4.6	1.0	7513358			
Acid Extractable Barium (Ba)	ug/g	120	150	0.50	7513358			
Acid Extractable Beryllium (Be)	ug/g	0.78	0.89	0.20	7513358			
Acid Extractable Boron (B)	ug/g	9.9	11	5.0	7513358			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.10	7513358			
Acid Extractable Chromium (Cr)	ug/g	23	26	1.0	7513358			
Acid Extractable Cobalt (Co)	ug/g	11	14	0.10	7513358			
Acid Extractable Copper (Cu)	ug/g	21	23	0.50	7513358			
Acid Extractable Lead (Pb)	ug/g	7.9	9.4	1.0	7513358			
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.51	0.50	7513358			
Acid Extractable Nickel (Ni)	ug/g	26	31	0.50	7513358			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7513358			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7513358			
Acid Extractable Thallium (Tl)	ug/g	0.14	0.15	0.050	7513358			
Acid Extractable Uranium (U)	ug/g	0.69	0.75	0.050	7513358			
Acid Extractable Vanadium (V)	ug/g	31	36	5.0	7513358			
Acid Extractable Zinc (Zn)	ug/g	52	59	5.0	7513358			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7513358			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE835			QIE835			QIE837		
Sampling Date		2021/08/06 09:45			2021/08/06 09:45			2021/08/06 10:50		
COC Number		839290-05-01			839290-05-01			839290-05-01		
	UNITS	BH114-1	RDL	QC Batch	BH114-1 Lab-Dup	RDL	QC Batch	BH115-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.31		7509485				0.54		7509485
Inorganics										
Conductivity	mS/cm	0.12	0.002	7515271				0.61	0.002	7515271
Moisture	%							17	1.0	7510408
Available (CaCl2) pH	pH	6.44		7513202				7.70		7512656
WAD Cyanide (Free)	ug/g	<0.01	0.01	7511554				<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	0.18	7513006	<0.18	0.18	7513006	<0.18	0.18	7513006
Metals										
Hot Water Ext. Boron (B)	ug/g	0.36	0.050	7513430				0.27	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	0.22	0.20	7513358				0.20	0.20	7513749
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7513358				3.9	1.0	7513749
Acid Extractable Barium (Ba)	ug/g	88	0.50	7513358				120	0.50	7513749
Acid Extractable Beryllium (Be)	ug/g	0.86	0.20	7513358				0.80	0.20	7513749
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7513358				13	5.0	7513749
Acid Extractable Cadmium (Cd)	ug/g	0.21	0.10	7513358				0.11	0.10	7513749
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7513358				25	1.0	7513749
Acid Extractable Cobalt (Co)	ug/g	12	0.10	7513358				14	0.10	7513749
Acid Extractable Copper (Cu)	ug/g	15	0.50	7513358				23	0.50	7513749
Acid Extractable Lead (Pb)	ug/g	16	1.0	7513358				9.2	1.0	7513749
Acid Extractable Molybdenum (Mo)	ug/g	0.91	0.50	7513358				0.70	0.50	7513749
Acid Extractable Nickel (Ni)	ug/g	23	0.50	7513358				29	0.50	7513749
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7513358				<0.50	0.50	7513749
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7513358				<0.20	0.20	7513749
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7513358				0.15	0.050	7513749
Acid Extractable Uranium (U)	ug/g	0.75	0.050	7513358				0.77	0.050	7513749
Acid Extractable Vanadium (V)	ug/g	38	5.0	7513358				34	5.0	7513749
Acid Extractable Zinc (Zn)	ug/g	66	5.0	7513358				62	5.0	7513749
Acid Extractable Mercury (Hg)	ug/g	0.061	0.050	7513358				<0.050	0.050	7513749

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE837			QIE838		QIE839		
Sampling Date		2021/08/06 10:50			2021/08/06 12:30		2021/08/06 13:00		
COC Number		839290-05-01			839290-05-01		839290-05-01		
	UNITS	BH115-1 Lab-Dup	RDL	QC Batch	BH116-1	QC Batch	BH117-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A				0.20 (1)	7509485	0.15 (1)		7509485
Inorganics									
Conductivity	mS/cm	0.60	0.002	7515271	0.22	7515271	0.44	0.002	7515271
Moisture	%				19	7510408	13	1.0	7510408
Available (CaCl2) pH	pH	7.72		7512656	7.43	7512963	6.97		7512656
WAD Cyanide (Free)	ug/g				<0.01	7511554	<0.01	0.01	7511504
Chromium (VI)	ug/g				<0.18	7513006	<0.18	0.18	7513312
Metals									
Hot Water Ext. Boron (B)	ug/g				0.54	7513430	0.40	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g				0.20	7513358	<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g				4.6	7513358	4.7	1.0	7513358
Acid Extractable Barium (Ba)	ug/g				95	7513358	90	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g				0.81	7513358	0.77	0.20	7513358
Acid Extractable Boron (B)	ug/g				6.3	7513358	<5.0	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g				0.44	7513358	0.25	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g				26	7513358	25	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g				13	7513358	11	0.10	7513358
Acid Extractable Copper (Cu)	ug/g				22	7513358	16	0.50	7513358
Acid Extractable Lead (Pb)	ug/g				24	7513358	20	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g				0.65	7513358	0.81	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g				25	7513358	21	0.50	7513358
Acid Extractable Selenium (Se)	ug/g				<0.50	7513358	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g				<0.20	7513358	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g				0.36	7513358	0.25	0.050	7513358
Acid Extractable Uranium (U)	ug/g				0.76	7513358	0.74	0.050	7513358
Acid Extractable Vanadium (V)	ug/g				39	7513358	38	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g				79	7513358	61	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g				<0.050	7513358	<0.050	0.050	7513358

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.

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE844			QIE844			QIE845		
Sampling Date		2021/08/03 09:30			2021/08/03 09:30			2021/08/03 11:30		
COC Number		839290-07-01			839290-07-01			839290-07-01		
	UNITS	GS101	RDL	QC Batch	GS101 Lab-Dup	RDL	QC Batch	GS102	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.41 (1)		7509485				0.38		7509485
Inorganics										
Conductivity	mS/cm	0.064	0.002	7515271				0.18	0.002	7515271
Moisture	%	9.7	1.0	7510458	9.5	1.0	7510458	12	1.0	7510458
Available (CaCl2) pH	pH	7.80		7513202				7.79		7513202
WAD Cyanide (Free)	ug/g	<0.01	0.01	7511554	<0.01	0.01	7511554	<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	0.18	7513006				<0.18	0.18	7513006
Metals										
Hot Water Ext. Boron (B)	ug/g	<0.050	0.050	7513430				0.097	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7513358				<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	7513358				3.0	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	4.1	0.50	7513358				72	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	7513358				0.55	0.20	7513358
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7513358				6.7	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7513358				<0.10	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	1.4	1.0	7513358				17	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	0.40	0.10	7513358				8.7	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	0.91	0.50	7513358				14	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	<1.0	1.0	7513358				6.5	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7513358				<0.50	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	1.1	0.50	7513358				20	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7513358				<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7513358				<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	<0.050	0.050	7513358				0.10	0.050	7513358
Acid Extractable Uranium (U)	ug/g	<0.050	0.050	7513358				0.44	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	<5.0	5.0	7513358				24	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	<5.0	5.0	7513358				41	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7513358				<0.050	0.050	7513358

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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O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QIE846	QIE847		
Sampling Date		2021/08/04 07:00	2021/08/06 10:40		
COC Number		839290-07-01	839290-07-01		
	UNITS	GS103	GS104	RDL	QC Batch
Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.53	0.58		7509485
Inorganics					
Conductivity	mS/cm	0.44	0.38	0.002	7515271
Moisture	%	10	7.5	1.0	7510458
Available (CaCl2) pH	pH	7.82	7.84		7513202
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7511554
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7513006
Metals					
Hot Water Ext. Boron (B)	ug/g	0.18	0.17	0.050	7513430
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	7513358
Acid Extractable Arsenic (As)	ug/g	3.5	2.4	1.0	7513358
Acid Extractable Barium (Ba)	ug/g	84	84	0.50	7513358
Acid Extractable Beryllium (Be)	ug/g	0.53	0.59	0.20	7513358
Acid Extractable Boron (B)	ug/g	8.2	9.3	5.0	7513358
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7513358
Acid Extractable Chromium (Cr)	ug/g	18	19	1.0	7513358
Acid Extractable Cobalt (Co)	ug/g	9.4	8.8	0.10	7513358
Acid Extractable Copper (Cu)	ug/g	16	16	0.50	7513358
Acid Extractable Lead (Pb)	ug/g	6.9	6.1	1.0	7513358
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.50	7513358
Acid Extractable Nickel (Ni)	ug/g	21	21	0.50	7513358
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7513358
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7513358
Acid Extractable Thallium (Tl)	ug/g	0.096	0.10	0.050	7513358
Acid Extractable Uranium (U)	ug/g	0.51	0.46	0.050	7513358
Acid Extractable Vanadium (V)	ug/g	25	25	5.0	7513358
Acid Extractable Zinc (Zn)	ug/g	46	43	5.0	7513358
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7513358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE601	QIE603	QIE607			QIE608		
Sampling Date		2021/08/03 09:45	2021/08/03 10:40	2021/08/03 11:40			2021/08/03 11:45		
COC Number		839290-02-01	839290-02-01	839290-02-01			839290-02-01		
	UNITS	BH101-1	BH102-1	BH103-1	RDL	QC Batch	BH103-10	RDL	QC Batch
Inorganics									
Moisture	%						20	1.0	7510408
Calculated Parameters									
Chlordane (Total)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7508336	<0.0020	0.0020	7508336
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7508336	<0.0020	0.0020	7508336
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7508336	<0.0020	0.0020	7508336
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7508336	<0.0020	0.0020	7508336
Total Endosulfan	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7508336	<0.0020	0.0020	7508336
Total PCB	ug/g	<0.015	<0.015	<0.015	0.015	7508336	<0.015	0.015	7508336
Pesticides & Herbicides									
Aldrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
a-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
g-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Dieldrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Lindane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endrin	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Heptachlor	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Heptachlor epoxide	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachlorobenzene	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachloroethane	ug/g	<0.0020	<0.0020	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Methoxychlor	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7516086	<0.0050	0.0050	7516086
Aroclor 1242	ug/g	<0.015	<0.015	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1248	ug/g	<0.015	<0.015	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1254	ug/g	<0.015	<0.015	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1260	ug/g	<0.015	<0.015	<0.015	0.015	7516086	<0.015	0.015	7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE601	QIE603	QIE607			QIE608		
Sampling Date		2021/08/03 09:45	2021/08/03 10:40	2021/08/03 11:40			2021/08/03 11:45		
COC Number		839290-02-01	839290-02-01	839290-02-01			839290-02-01		
	UNITS	BH101-1	BH102-1	BH103-1	RDL	QC Batch	BH103-10	RDL	QC Batch
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	75	77	62		7516086	86		7516086
Decachlorobiphenyl	%	99	89	109		7516086	93		7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE610	QIE706	QIE709	QIE713	QIE769	QIE771		
Sampling Date		2021/08/03 12:30	2021/08/03 13:25	2021/08/04 07:15	2021/08/04 11:30	2021/08/04 14:30	2021/08/05 07:20		
COC Number		839290-02-01	839290-04-01	839290-04-01	839290-04-01	839290-03-01	839290-03-01		
	UNITS	BH104-1	BH105-1	MW106-1	BH107-1	MW108-1	MW109-1	RDL	QC Batch
Calculated Parameters									
Chlordane (Total)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total Endosulfan	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total PCB	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	7508336
Pesticides & Herbicides									
Aldrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
a-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
g-Chlordane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDD	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDE	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDT	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Dieldrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Lindane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endrin	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor epoxide	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobenzene	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachloroethane	ug/g	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7516086
Methoxychlor	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7516086
Aroclor 1242	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1248	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1254	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1260	ug/g	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.015	7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE610	QIE706	QIE709	QIE713	QIE769	QIE771		
Sampling Date		2021/08/03 12:30	2021/08/03 13:25	2021/08/04 07:15	2021/08/04 11:30	2021/08/04 14:30	2021/08/05 07:20		
COC Number		839290-02-01	839290-04-01	839290-04-01	839290-04-01	839290-03-01	839290-03-01		
	UNITS	BH104-1	BH105-1	MW106-1	BH107-1	MW108-1	MW109-1	RDL	QC Batch
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	79	90	83	84	82	95		7516086
Decachlorobiphenyl	%	98	103	95	90	91	105		7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE772			QIE774	QIE776	QIE830		
Sampling Date		2021/08/05 07:25			2021/08/05 09:55	2021/08/05 13:30	2021/08/05 14:35		
COC Number		839290-03-01			839290-03-01	839290-03-01	839290-05-01		
	UNITS	MW109-10	RDL	QC Batch	MW110-1	BH111-1	BH112-1	RDL	QC Batch
Inorganics									
Moisture	%	15	1.0	7510408					
Calculated Parameters									
Chlordane (Total)	ug/g	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total Endosulfan	ug/g	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total PCB	ug/g	<0.015	0.015	7508336	<0.015	<0.015	<0.015	0.015	7508336
Pesticides & Herbicides									
Aldrin	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
a-Chlordane	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
g-Chlordane	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDD	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDD	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDE	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDE	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDT	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDT	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Dieldrin	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Lindane	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endrin	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor epoxide	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobenzene	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachloroethane	ug/g	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Methoxychlor	ug/g	<0.0050	0.0050	7516086	<0.0050	<0.0050	<0.0050	0.0050	7516086
Aroclor 1242	ug/g	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1248	ug/g	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1254	ug/g	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1260	ug/g	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE772			QIE774	QIE776	QIE830		
Sampling Date		2021/08/05 07:25			2021/08/05 09:55	2021/08/05 13:30	2021/08/05 14:35		
COC Number		839290-03-01			839290-03-01	839290-03-01	839290-05-01		
	UNITS	MW109-10	RDL	QC Batch	MW110-1	BH111-1	BH112-1	RDL	QC Batch
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	96		7516086	81	81	81		7516086
Decachlorobiphenyl	%	112		7516086	94	98	105		7516086

RDL = Reportable Detection Limit
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Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE831	QIE832			QIE835	QIE837	QIE838		
Sampling Date		2021/08/06 07:30	2021/08/06 07:35			2021/08/06 09:45	2021/08/06 10:50	2021/08/06 12:30		
COC Number		839290-05-01	839290-05-01			839290-05-01	839290-05-01	839290-05-01		
	UNITS	MW113-1	MW113-10	RDL	QC Batch	BH114-1	BH115-1	BH116-1	RDL	QC Batch
Inorganics										
Moisture	%	22	21	1.0	7510408					
Calculated Parameters										
Chlordane (Total)	ug/g	<0.0020	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total Endosulfan	ug/g	<0.0020	<0.0020	0.0020	7508336	<0.0020	<0.0020	<0.0020	0.0020	7508336
Total PCB	ug/g	<0.015	<0.015	0.015	7508336	<0.015	<0.015	<0.015	0.015	7508336
Pesticides & Herbicides										
Aldrin	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
a-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
g-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
o,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Dieldrin	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Lindane	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Endrin	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Heptachlor epoxide	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobenzene	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Hexachloroethane	ug/g	<0.0020	<0.0020	0.0020	7516086	<0.0020	<0.0020	<0.0020	0.0020	7516086
Methoxychlor	ug/g	<0.0050	<0.0050	0.0050	7516086	<0.0050	<0.0050	<0.0050	0.0050	7516086
Aroclor 1242	ug/g	<0.015	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1248	ug/g	<0.015	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1254	ug/g	<0.015	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086
Aroclor 1260	ug/g	<0.015	<0.015	0.015	7516086	<0.015	<0.015	<0.015	0.015	7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE831	QIE832			QIE835	QIE837	QIE838		
Sampling Date		2021/08/06 07:30	2021/08/06 07:35			2021/08/06 09:45	2021/08/06 10:50	2021/08/06 12:30		
COC Number		839290-05-01	839290-05-01			839290-05-01	839290-05-01	839290-05-01		
	UNITS	MW113-1	MW113-10	RDL	QC Batch	BH114-1	BH115-1	BH116-1	RDL	QC Batch
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	71	82		7516086	90	66	87		7516086
Decachlorobiphenyl	%	102	99		7516086	117	99	98		7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE839			QIE839		
Sampling Date		2021/08/06 13:00			2021/08/06 13:00		
COC Number		839290-05-01			839290-05-01		
	UNITS	BH117-1	RDL	QC Batch	BH117-1 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Chlordane (Total)	ug/g	<0.0020	0.0020	7508336			
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7508336			
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7508336			
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7508336			
Total Endosulfan	ug/g	<0.0020	0.0020	7508336			
Total PCB	ug/g	<0.015	0.015	7508336			
Pesticides & Herbicides							
Aldrin	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
a-Chlordane	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
g-Chlordane	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDD	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDD	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDE	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDE	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
o,p-DDT	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
p,p-DDT	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Dieldrin	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Lindane	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Endrin	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Heptachlor	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Heptachlor epoxide	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachlorobenzene	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Hexachloroethane	ug/g	<0.0020	0.0020	7516086	<0.0020	0.0020	7516086
Methoxychlor	ug/g	<0.0050	0.0050	7516086	<0.0050	0.0050	7516086
Aroclor 1242	ug/g	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1248	ug/g	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1254	ug/g	<0.015	0.015	7516086	<0.015	0.015	7516086
Aroclor 1260	ug/g	<0.015	0.015	7516086	<0.015	0.015	7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 OC PESTICIDES (SOIL)

BV Labs ID		QIE839			QIE839		
Sampling Date		2021/08/06 13:00			2021/08/06 13:00		
COC Number		839290-05-01			839290-05-01		
	UNITS	BH117-1	RDL	QC Batch	BH117-1 Lab-Dup	RDL	QC Batch
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	78		7516086	87		7516086
Decachlorobiphenyl	%	96		7516086	110		7516086

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 PAHS (SOIL)

BV Labs ID		QIE709			QIE713	QIE835	QIE836		
Sampling Date		2021/08/04 07:15			2021/08/04 11:30	2021/08/06 09:45	2021/08/06 09:50		
COC Number		839290-04-01			839290-04-01	839290-05-01	839290-05-01		
	UNITS	MW106-1	RDL	QC Batch	BH107-1	BH114-1	BH114-10	RDL	QC Batch
Inorganics									
Moisture	%				20	22	19	1.0	7510458
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7509482	<0.0071	<0.0071	<0.0071	0.0071	7509482
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Acenaphthylene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Anthracene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	0.0078	0.0050	7513921
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0062	0.0092	0.0050	7513921
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.011	0.015	0.0050	7513921
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0061	0.0079	0.0050	7513921
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Chrysene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0084	0.010	0.0050	7513921
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Fluoranthene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.012	0.017	0.0050	7513921
Fluorene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0065	0.0088	0.0050	7513921
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Naphthalene	ug/g	<0.0050	0.0050	7513921	<0.0050	<0.0050	<0.0050	0.0050	7513921
Phenanthrene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0060	0.0085	0.0050	7513921
Pyrene	ug/g	<0.0050	0.0050	7513921	<0.0050	0.0091	0.014	0.0050	7513921
Surrogate Recovery (%)									
D10-Anthracene	%	74		7513921	74	76	78		7513921
D14-Terphenyl (FS)	%	72		7513921	72	76	81		7513921
D8-Acenaphthylene	%	72		7513921	71	73	80		7513921

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

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

BV Labs ID		QIE604	QIE605			QIE605			QIE707		
Sampling Date		2021/08/03 11:00	2021/08/03 11:05			2021/08/03 11:05			2021/08/03 17:00		
COC Number		839290-02-01	839290-02-01			839290-02-01			839290-04-01		
	UNITS	BH102-2	BH102-20	RDL	QC Batch	BH102-20 Lab-Dup	RDL	QC Batch	BH105-2	RDL	QC Batch
Inorganics											
Moisture	%	18	18	1.0	7510458				22	1.0	7510458
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	<0.020	0.020	7514845	<0.020	0.020	7514845	<0.020	0.020	7514845
Toluene	ug/g	<0.020	<0.020	0.020	7514845	<0.020	0.020	7514845	<0.020	0.020	7514845
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7514845	<0.020	0.020	7514845	<0.020	0.020	7514845
o-Xylene	ug/g	<0.020	<0.020	0.020	7514845	<0.020	0.020	7514845	<0.020	0.020	7514845
p+m-Xylene	ug/g	<0.040	<0.040	0.040	7514845	<0.040	0.040	7514845	<0.040	0.040	7514845
Total Xylenes	ug/g	<0.040	<0.040	0.040	7514845	<0.040	0.040	7514845	<0.040	0.040	7514845
F1 (C6-C10)	ug/g	<10	<10	10	7514845	<10	10	7514845	<10	10	7514845
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7514845	<10	10	7514845	<10	10	7514845
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7514094				<10	10	7514094
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7514094				<50	50	7514094
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7514094				<50	50	7514094
Reached Baseline at C50	ug/g	Yes	Yes		7514094				Yes		7514094
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	106	106		7514845	108		7514845	109		7514845
4-Bromofluorobenzene	%	99	94		7514845	102		7514845	99		7514845
D10-o-Xylene	%	95	90		7514845	92		7514845	96		7514845
D4-1,2-Dichloroethane	%	112	110		7514845	110		7514845	106		7514845
o-Terphenyl	%	92	92		7514094				91		7514094

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		QIE709			QIE713	QIE835		
Sampling Date		2021/08/04 07:15			2021/08/04 11:30	2021/08/06 09:45		
COC Number		839290-04-01			839290-04-01	839290-05-01		
	UNITS	MW106-1	RDL	QC Batch	BH107-1	BH114-1	RDL	QC Batch
Inorganics								
Moisture	%	15	1.0	7510458				
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	0.020	7514845	<0.020	<0.020	0.020	7514845
Toluene	ug/g	<0.020	0.020	7514845	<0.020	<0.020	0.020	7514845
Ethylbenzene	ug/g	<0.020	0.020	7514845	<0.020	<0.020	0.020	7514845
o-Xylene	ug/g	<0.020	0.020	7514845	<0.020	<0.020	0.020	7514845
p+m-Xylene	ug/g	<0.040	0.040	7514845	<0.040	<0.040	0.040	7514845
Total Xylenes	ug/g	<0.040	0.040	7514845	<0.040	<0.040	0.040	7514845
F1 (C6-C10)	ug/g	<10	10	7514845	<10	<10	10	7514845
F1 (C6-C10) - BTEX	ug/g	<10	10	7514845	<10	<10	10	7514845
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7514094	<10	<10	10	7514094
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7514094	<50	<50	50	7514094
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7514094	<50	<50	50	7514094
Reached Baseline at C50	ug/g	Yes		7514094	Yes	Yes		7514094
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	107		7514845	109	107		7514845
4-Bromofluorobenzene	%	97		7514845	91	96		7514845
D10-o-Xylene	%	82		7514845	99	96		7514845
D4-1,2-Dichloroethane	%	112		7514845	110	112		7514845
o-Terphenyl	%	94		7514094	93	93		7514094

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		QIE711	QIE712		
Sampling Date		2021/08/04 09:40	2021/08/04 09:45		
COC Number		839290-04-01	839290-04-01		
	UNITS	MW106-9	MW106-90	RDL	QC Batch
Inorganics					
Moisture	%	25	24	1.0	7510458
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7509487
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7512708
Benzene	ug/g	<0.0060	<0.0060	0.0060	7512708
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7512708
Bromoform	ug/g	<0.040	<0.040	0.040	7512708
Bromomethane	ug/g	<0.040	<0.040	0.040	7512708
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7512708
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7512708
Chloroform	ug/g	<0.040	<0.040	0.040	7512708
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7512708
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7512708
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7512708
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7512708
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7512708
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7512708
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7512708
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7512708
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7512708
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7512708
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7512708
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7512708
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7512708
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7512708
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7512708
Hexane	ug/g	<0.040	<0.040	0.040	7512708
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7512708
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7512708
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7512708
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7512708
Styrene	ug/g	<0.040	<0.040	0.040	7512708

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		QIE711	QIE712		
Sampling Date		2021/08/04 09:40	2021/08/04 09:45		
COC Number		839290-04-01	839290-04-01		
	UNITS	MW106-9	MW106-90	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7512708
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7512708
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7512708
Toluene	ug/g	<0.020	<0.020	0.020	7512708
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7512708
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7512708
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7512708
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7512708
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7512708
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7512708
o-Xylene	ug/g	<0.020	<0.020	0.020	7512708
Total Xylenes	ug/g	<0.020	<0.020	0.020	7512708
F1 (C6-C10)	ug/g	<10	<10	10	7512708
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7512708
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7514094
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7514094
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7514094
Reached Baseline at C50	ug/g	Yes	Yes		7514094
Surrogate Recovery (%)					
o-Terphenyl	%	93	93		7514094
4-Bromofluorobenzene	%	96	96		7512708
D10-o-Xylene	%	101	96		7512708
D4-1,2-Dichloroethane	%	105	105		7512708
D8-Toluene	%	100	99		7512708

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

RESULTS OF ANALYSES OF SOIL

BV Labs ID		QIE710	QIE773	
Sampling Date		2021/08/04 08:15	2021/08/05 09:00	
COC Number		839290-04-01	839290-03-01	
	UNITS	MW106-4	MW109-5	QC Batch
Inorganics				
Available (CaCl2) pH	pH	7.73	7.71	7513202
QC Batch = Quality Control Batch				

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VOLATILE ORGANICS BY GC/MS (SOIL)

BV Labs ID		QIE848		
Sampling Date		2021/08/06 14:00		
COC Number		839290-07-01		
	UNITS	METHANOL BLANK	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7509487
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.49	0.49	7512707
Benzene	ug/g	<0.0060	0.0060	7512707
Bromodichloromethane	ug/g	<0.040	0.040	7512707
Bromoform	ug/g	<0.040	0.040	7512707
Bromomethane	ug/g	<0.040	0.040	7512707
Carbon Tetrachloride	ug/g	<0.040	0.040	7512707
Chlorobenzene	ug/g	<0.040	0.040	7512707
Chloroform	ug/g	<0.040	0.040	7512707
Dibromochloromethane	ug/g	<0.040	0.040	7512707
1,2-Dichlorobenzene	ug/g	<0.040	0.040	7512707
1,3-Dichlorobenzene	ug/g	<0.040	0.040	7512707
1,4-Dichlorobenzene	ug/g	<0.040	0.040	7512707
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	7512707
1,1-Dichloroethane	ug/g	<0.040	0.040	7512707
1,2-Dichloroethane	ug/g	<0.049	0.049	7512707
1,1-Dichloroethylene	ug/g	<0.040	0.040	7512707
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	7512707
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	7512707
1,2-Dichloropropane	ug/g	<0.040	0.040	7512707
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7512707
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7512707
Ethylbenzene	ug/g	<0.010	0.010	7512707
Ethylene Dibromide	ug/g	<0.040	0.040	7512707
Hexane	ug/g	<0.040	0.040	7512707
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	7512707
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	7512707
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	7512707
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	7512707
Styrene	ug/g	<0.040	0.040	7512707
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	7512707
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	7512707

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

BV Labs ID		QIE848		
Sampling Date		2021/08/06 14:00		
COC Number		839290-07-01		
	UNITS	METHANOL BLANK	RDL	QC Batch
Tetrachloroethylene	ug/g	<0.040	0.040	7512707
Toluene	ug/g	<0.020	0.020	7512707
1,1,1-Trichloroethane	ug/g	<0.040	0.040	7512707
1,1,2-Trichloroethane	ug/g	<0.040	0.040	7512707
Trichloroethylene	ug/g	<0.010	0.010	7512707
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	7512707
Vinyl Chloride	ug/g	<0.019	0.019	7512707
p+m-Xylene	ug/g	<0.020	0.020	7512707
o-Xylene	ug/g	<0.020	0.020	7512707
Total Xylenes	ug/g	<0.020	0.020	7512707
F1 (C6-C10)	ug/g	<10	10	7512707
F1 (C6-C10) - BTEX	ug/g	<10	10	7512707
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	93		7512707
D10-o-Xylene	%	95		7512707
D4-1,2-Dichloroethane	%	106		7512707
D8-Toluene	%	97		7512707

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: QIE601
Sample ID: BH101-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE602
Sample ID: BH101-3
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7528956	2021/08/19	2021/08/19	Jolly John
Free (WAD) Cyanide	TECH	7526812	2021/08/18	2021/08/19	Aditiben Patel
Conductivity	AT	7531430	2021/08/20	2021/08/20	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7526227	2021/08/17	2021/08/20	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7528966	2021/08/19	2021/08/19	Viviana Canzonieri
Moisture	BAL	7524448	N/A	2021/08/17	Prgya Panchal
pH CaCl2 EXTRACT	AT	7526663	2021/08/18	2021/08/18	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7524084	N/A	2021/08/20	Automated Statchk

BV Labs ID: QIE603
Sample ID: BH102-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512963	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

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TEST SUMMARY

BV Labs ID: QIE604
Sample ID: BH102-2
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/11	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)

BV Labs ID: QIE605
Sample ID: BH102-20
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/11	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)

BV Labs ID: QIE605 Dup
Sample ID: BH102-20
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/11	Joe Paino

BV Labs ID: QIE607
Sample ID: BH103-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512963	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE608
Sample ID: BH103-10
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk

TEST SUMMARY

BV Labs ID: QIE609
Sample ID: BH103-3
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7528956	2021/08/19	2021/08/19	Jolly John
Free (WAD) Cyanide	TECH	7526812	2021/08/18	2021/08/19	Aditiben Patel
Conductivity	AT	7531430	2021/08/20	2021/08/20	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7526227	2021/08/18	2021/08/20	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7529298	2021/08/19	2021/08/20	Daniel Teclu
Moisture	BAL	7524448	N/A	2021/08/17	Prgya Panchal
pH CaCl2 EXTRACT	AT	7526663	2021/08/18	2021/08/18	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7524084	N/A	2021/08/20	Automated Statchk

BV Labs ID: QIE610
Sample ID: BH104-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515055	2021/08/12	2021/08/12	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/12	Automated Statchk

BV Labs ID: QIE610 Dup
Sample ID: BH104-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7515055	2021/08/12	2021/08/12	Massarat Jan

BV Labs ID: QIE706
Sample ID: BH105-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513761	2021/08/11	2021/08/12	Archana Patel
Free (WAD) Cyanide	TECH	7511504	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515055	2021/08/12	2021/08/12	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7513312	2021/08/11	2021/08/12	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7513749	2021/08/11	2021/08/13	Viviana Canzonieri
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng

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TEST SUMMARY

BV Labs ID: QIE706
Sample ID: BH105-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/12	Automated Statchk

BV Labs ID: QIE706 Dup
Sample ID: BH105-1
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513761	2021/08/11	2021/08/12	Archana Patel
Acid Extractable Metals by ICPMS	ICP/MS	7513749	2021/08/11	2021/08/13	Viviana Canzonieri
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)

BV Labs ID: QIE707
Sample ID: BH105-2
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/11	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)

BV Labs ID: QIE709
Sample ID: MW106-1
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7509482	N/A	2021/08/12	Automated Statchk
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/11	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7513921	2021/08/11	2021/08/12	Jonghan Yoon
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

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BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

TEST SUMMARY

BV Labs ID: QIE710
Sample ID: MW106-4
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7528956	2021/08/19	2021/08/19	Jolly John
Free (WAD) Cyanide	TECH	7526812	2021/08/18	2021/08/19	Aditiben Patel
Conductivity	AT	7531430	2021/08/20	2021/08/20	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7526227	2021/08/18	2021/08/20	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7529089	2021/08/19	2021/08/20	Daniel Teclu
Moisture	BAL	7524448	N/A	2021/08/17	Prgya Panchal
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7524084	N/A	2021/08/20	Automated Statchk

BV Labs ID: QIE711
Sample ID: MW106-9
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7509487	N/A	2021/08/13	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7512708	N/A	2021/08/12	Anna Gabrielyan

BV Labs ID: QIE712
Sample ID: MW106-90
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7509487	N/A	2021/08/13	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7512708	N/A	2021/08/12	Anna Gabrielyan

BV Labs ID: QIE713
Sample ID: BH107-1
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7509482	N/A	2021/08/12	Automated Statchk
Hot Water Extractable Boron	ICP	7513761	2021/08/11	2021/08/12	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/12	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng

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TEST SUMMARY

BV Labs ID: QIE713
Sample ID: BH107-1
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7513921	2021/08/11	2021/08/12	Jonghan Yoon
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE714
Sample ID: BH107-3A
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7528956	2021/08/19	2021/08/19	Jolly John
Free (WAD) Cyanide	TECH	7526812	2021/08/18	2021/08/19	Aditiben Patel
Conductivity	AT	7531430	2021/08/20	2021/08/20	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7526227	2021/08/18	2021/08/20	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7529298	2021/08/19	2021/08/20	Daniel Teclu
Moisture	BAL	7524448	N/A	2021/08/17	Prgya Panchal
pH CaCl2 EXTRACT	AT	7526663	2021/08/18	2021/08/18	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7524084	N/A	2021/08/20	Automated Statchk

BV Labs ID: QIE769
Sample ID: MW108-1
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE771
Sample ID: MW109-1
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

TEST SUMMARY

BV Labs ID: QIE771
Sample ID: MW109-1
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE772
Sample ID: MW109-10
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk

BV Labs ID: QIE773
Sample ID: MW109-5
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake

BV Labs ID: QIE774
Sample ID: MW110-1
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE774 Dup
Sample ID: MW110-1
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu

TEST SUMMARY

BV Labs ID: QIE775
Sample ID: MW110-10
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE775 Dup
Sample ID: MW110-10
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake

BV Labs ID: QIE776
Sample ID: BH111-1
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513819	2021/08/11	2021/08/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515344	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513985	2021/08/11	2021/08/12	Viviana Canzonieri
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512963	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE777
Sample ID: BH111-10
Matrix: Soil

Collected: 2021/08/05
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513819	2021/08/11	2021/08/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7511504	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515344	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513312	2021/08/11	2021/08/12	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7513985	2021/08/11	2021/08/12	Viviana Canzonieri
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake

TEST SUMMARY

BV Labs ID: QIE777 **Collected:** 2021/08/05
Sample ID: BH111-10 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE830 **Collected:** 2021/08/05
Sample ID: BH112-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511504	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513312	2021/08/11	2021/08/12	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE831 **Collected:** 2021/08/06
Sample ID: MW113-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk

BV Labs ID: QIE832 **Collected:** 2021/08/06
Sample ID: MW113-10 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk

BV Labs ID: QIE833 **Collected:** 2021/08/06
Sample ID: MW113-2 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila

TEST SUMMARY

BV Labs ID: QIE833
Sample ID: MW113-2
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE834
Sample ID: MW113-20
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE834 Dup
Sample ID: MW113-20
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel

BV Labs ID: QIE835
Sample ID: BH114-1
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7509482	N/A	2021/08/12	Automated Statchk
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7514845	N/A	2021/08/12	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7514094	2021/08/11	2021/08/12	Anna Stuglik-Rolland
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7513921	2021/08/11	2021/08/12	Jonghan Yoon
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake

TEST SUMMARY

BV Labs ID: QIE835 **Collected:** 2021/08/06
Sample ID: BH114-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE835 Dup **Collected:** 2021/08/06
Sample ID: BH114-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila

BV Labs ID: QIE836 **Collected:** 2021/08/06
Sample ID: BH114-10 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7509482	N/A	2021/08/12	Automated Statchk
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7513921	2021/08/11	2021/08/12	Jonghan Yoon

BV Labs ID: QIE837 **Collected:** 2021/08/06
Sample ID: BH115-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513749	2021/08/11	2021/08/13	Viviana Canzonieri
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE837 Dup **Collected:** 2021/08/06
Sample ID: BH115-1 **Shipped:**
Matrix: Soil **Received:** 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake

TEST SUMMARY

BV Labs ID: QIE838
Sample ID: BH116-1
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512963	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE839
Sample ID: BH117-1
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511504	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513312	2021/08/11	2021/08/12	Lusine Khachatryan
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510408	N/A	2021/08/10	Gurpreet Kaur (ONT)
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng
OC Pesticides Summed Parameters	CALC	7508336	N/A	2021/08/11	Automated Statchk
pH CaCl2 EXTRACT	AT	7512656	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE839 Dup
Sample ID: BH117-1
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	7516086	2021/08/12	2021/08/13	Li Peng

BV Labs ID: QIE844
Sample ID: GS101
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu

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Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

TEST SUMMARY

BV Labs ID: QIE844
Sample ID: GS101
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE844 Dup
Sample ID: GS101
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)

BV Labs ID: QIE845
Sample ID: GS102
Matrix: Soil

Collected: 2021/08/03
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE846
Sample ID: GS103
Matrix: Soil

Collected: 2021/08/04
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

TEST SUMMARY

BV Labs ID: QIE847
Sample ID: GS104
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7513430	2021/08/11	2021/08/11	Archana Patel
Free (WAD) Cyanide	TECH	7511554	2021/08/10	2021/08/11	Louise Harding
Conductivity	AT	7515271	2021/08/12	2021/08/12	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7513006	2021/08/11	2021/08/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7513358	2021/08/11	2021/08/16	Daniel Teclu
Moisture	BAL	7510458	N/A	2021/08/10	Gurpreet Kaur (ONT)
pH CaCl2 EXTRACT	AT	7513202	2021/08/11	2021/08/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7509485	N/A	2021/08/13	Automated Statchk

BV Labs ID: QIE848
Sample ID: METHANOL BLANK
Matrix: Soil

Collected: 2021/08/06
Shipped:
Received: 2021/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7509487	N/A	2021/08/13	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7512707	N/A	2021/08/12	Yang (Philip) Yu

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GENERAL COMMENTS

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

Package 1	7.0°C
Package 2	6.0°C
Package 3	2.7°C

Revised Report [2021/08/23]: Requested additional analysis for metals &inorganics added to sample BH101-3, BH103-3, MW106-4, BH107-3A as per client.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7512707	4-Bromofluorobenzene	2021/08/11	100	60 - 140	101	60 - 140	93	%		
7512707	D10-o-Xylene	2021/08/11	113	60 - 130	119	60 - 130	103	%		
7512707	D4-1,2-Dichloroethane	2021/08/11	103	60 - 140	108	60 - 140	101	%		
7512707	D8-Toluene	2021/08/11	105	60 - 140	103	60 - 140	97	%		
7512708	4-Bromofluorobenzene	2021/08/12	99	60 - 140	100	60 - 140	95	%		
7512708	D10-o-Xylene	2021/08/12	90	60 - 130	89	60 - 130	101	%		
7512708	D4-1,2-Dichloroethane	2021/08/12	109	60 - 140	105	60 - 140	103	%		
7512708	D8-Toluene	2021/08/12	98	60 - 140	100	60 - 140	100	%		
7513921	D10-Anthracene	2021/08/12	84	50 - 130	79	50 - 130	81	%		
7513921	D14-Terphenyl (FS)	2021/08/12	78	50 - 130	75	50 - 130	75	%		
7513921	D8-Acenaphthylene	2021/08/12	88	50 - 130	77	50 - 130	79	%		
7514094	o-Terphenyl	2021/08/11	89	60 - 130	90	60 - 130	94	%		
7514845	1,4-Difluorobenzene	2021/08/11	98	60 - 140	101	60 - 140	107	%		
7514845	4-Bromofluorobenzene	2021/08/11	105	60 - 140	105	60 - 140	90	%		
7514845	D10-o-Xylene	2021/08/11	97	60 - 140	91	60 - 140	81	%		
7514845	D4-1,2-Dichloroethane	2021/08/11	99	60 - 140	98	60 - 140	115	%		
7516086	2,4,5,6-Tetrachloro-m-xylene	2021/08/13	84	50 - 130	84	50 - 130	82	%		
7516086	Decachlorobiphenyl	2021/08/13	107	50 - 130	104	50 - 130	110	%		
7510408	Moisture	2021/08/10							4.5	20
7510458	Moisture	2021/08/10							2.1	20
7511504	WAD Cyanide (Free)	2021/08/11	87	75 - 125	91	80 - 120	<0.01	ug/g	NC	35
7511554	WAD Cyanide (Free)	2021/08/11	90	75 - 125	89	80 - 120	<0.01	ug/g	NC	35
7512656	Available (CaCl2) pH	2021/08/11			100	97 - 103			0.29	N/A
7512707	1,1,1,2-Tetrachloroethane	2021/08/11	101	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7512707	1,1,1-Trichloroethane	2021/08/11	102	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
7512707	1,1,2,2-Tetrachloroethane	2021/08/11	95	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
7512707	1,1,2-Trichloroethane	2021/08/11	103	60 - 140	110	60 - 130	<0.040	ug/g	NC	50
7512707	1,1-Dichloroethane	2021/08/11	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
7512707	1,1-Dichloroethylene	2021/08/11	102	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7512707	1,2-Dichlorobenzene	2021/08/11	98	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
7512707	1,2-Dichloroethane	2021/08/11	96	60 - 140	103	60 - 130	<0.049	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7512707	1,2-Dichloropropane	2021/08/11	96	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
7512707	1,3-Dichlorobenzene	2021/08/11	100	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7512707	1,4-Dichlorobenzene	2021/08/11	117	60 - 140	118	60 - 130	<0.040	ug/g	NC	50
7512707	Acetone (2-Propanone)	2021/08/11	103	60 - 140	120	60 - 140	<0.49	ug/g	NC	50
7512707	Benzene	2021/08/11	89	60 - 140	90	60 - 130	<0.0060	ug/g	NC	50
7512707	Bromodichloromethane	2021/08/11	102	60 - 140	108	60 - 130	<0.040	ug/g	NC	50
7512707	Bromoform	2021/08/11	96	60 - 140	106	60 - 130	<0.040	ug/g	NC	50
7512707	Bromomethane	2021/08/11	95	60 - 140	92	60 - 140	<0.040	ug/g	NC	50
7512707	Carbon Tetrachloride	2021/08/11	99	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
7512707	Chlorobenzene	2021/08/11	98	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7512707	Chloroform	2021/08/11	99	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
7512707	cis-1,2-Dichloroethylene	2021/08/11	100	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7512707	cis-1,3-Dichloropropene	2021/08/11	91	60 - 140	92	60 - 130	<0.030	ug/g	NC	50
7512707	Dibromochloromethane	2021/08/11	97	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7512707	Dichlorodifluoromethane (FREON 12)	2021/08/11	95	60 - 140	94	60 - 140	<0.040	ug/g	NC	50
7512707	Ethylbenzene	2021/08/11	92	60 - 140	91	60 - 130	<0.010	ug/g	NC	50
7512707	Ethylene Dibromide	2021/08/11	94	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7512707	F1 (C6-C10) - BTEX	2021/08/11					<10	ug/g	NC	30
7512707	F1 (C6-C10)	2021/08/11	107	60 - 140	93	80 - 120	<10	ug/g	NC	30
7512707	Hexane	2021/08/11	103	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7512707	Methyl Ethyl Ketone (2-Butanone)	2021/08/11	104	60 - 140	126	60 - 140	<0.40	ug/g	NC	50
7512707	Methyl Isobutyl Ketone	2021/08/11	96	60 - 140	117	60 - 130	<0.40	ug/g	NC	50
7512707	Methyl t-butyl ether (MTBE)	2021/08/11	90	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
7512707	Methylene Chloride(Dichloromethane)	2021/08/11	96	60 - 140	100	60 - 130	<0.049	ug/g	NC	50
7512707	o-Xylene	2021/08/11	93	60 - 140	95	60 - 130	<0.020	ug/g	NC	50
7512707	p+m-Xylene	2021/08/11	98	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
7512707	Styrene	2021/08/11	105	60 - 140	109	60 - 130	<0.040	ug/g	NC	50
7512707	Tetrachloroethylene	2021/08/11	95	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
7512707	Toluene	2021/08/11	94	60 - 140	94	60 - 130	<0.020	ug/g	20	50
7512707	Total Xylenes	2021/08/11					<0.020	ug/g	NC	50
7512707	trans-1,2-Dichloroethylene	2021/08/11	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7512707	trans-1,3-Dichloropropene	2021/08/11	93	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
7512707	Trichloroethylene	2021/08/11	102	60 - 140	103	60 - 130	<0.010	ug/g	NC	50
7512707	Trichlorofluoromethane (FREON 11)	2021/08/11	101	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
7512707	Vinyl Chloride	2021/08/11	95	60 - 140	96	60 - 130	<0.019	ug/g	NC	50
7512708	1,1,1,2-Tetrachloroethane	2021/08/12	94	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
7512708	1,1,1-Trichloroethane	2021/08/12	93	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
7512708	1,1,2,2-Tetrachloroethane	2021/08/12	109	60 - 140	110	60 - 130	<0.040	ug/g	NC	50
7512708	1,1,2-Trichloroethane	2021/08/12	101	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
7512708	1,1-Dichloroethane	2021/08/12	91	60 - 140	82	60 - 130	<0.040	ug/g	NC	50
7512708	1,1-Dichloroethylene	2021/08/12	90	60 - 140	81	60 - 130	<0.040	ug/g	NC	50
7512708	1,2-Dichlorobenzene	2021/08/12	90	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
7512708	1,2-Dichloroethane	2021/08/12	101	60 - 140	98	60 - 130	<0.049	ug/g	NC	50
7512708	1,2-Dichloropropane	2021/08/12	97	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
7512708	1,3-Dichlorobenzene	2021/08/12	93	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
7512708	1,4-Dichlorobenzene	2021/08/12	101	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7512708	Acetone (2-Propanone)	2021/08/12	99	60 - 140	86	60 - 140	<0.49	ug/g	NC	50
7512708	Benzene	2021/08/12	87	60 - 140	88	60 - 130	<0.0060	ug/g	NC	50
7512708	Bromodichloromethane	2021/08/12	101	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7512708	Bromoform	2021/08/12	93	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
7512708	Bromomethane	2021/08/12	94	60 - 140	84	60 - 140	<0.040	ug/g	NC	50
7512708	Carbon Tetrachloride	2021/08/12	88	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
7512708	Chlorobenzene	2021/08/12	93	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
7512708	Chloroform	2021/08/12	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
7512708	cis-1,2-Dichloroethylene	2021/08/12	101	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7512708	cis-1,3-Dichloropropene	2021/08/12	96	60 - 140	97	60 - 130	<0.030	ug/g	NC	50
7512708	Dibromochloromethane	2021/08/12	96	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
7512708	Dichlorodifluoromethane (FREON 12)	2021/08/12	77	60 - 140	71	60 - 140	<0.040	ug/g	NC	50
7512708	Ethylbenzene	2021/08/12	81	60 - 140	85	60 - 130	<0.010	ug/g	NC	50
7512708	Ethylene Dibromide	2021/08/12	101	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7512708	F1 (C6-C10) - BTEX	2021/08/12					<10	ug/g	NC	30
7512708	F1 (C6-C10)	2021/08/12	86	60 - 140	97	80 - 120	<10	ug/g	NC	30

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7512708	Hexane	2021/08/12	87	60 - 140	79	60 - 130	<0.040	ug/g	NC	50
7512708	Methyl Ethyl Ketone (2-Butanone)	2021/08/12	100	60 - 140	99	60 - 140	<0.40	ug/g	NC	50
7512708	Methyl Isobutyl Ketone	2021/08/12	102	60 - 140	103	60 - 130	<0.40	ug/g	NC	50
7512708	Methyl t-butyl ether (MTBE)	2021/08/12	92	60 - 140	84	60 - 130	<0.040	ug/g	NC	50
7512708	Methylene Chloride(Dichloromethane)	2021/08/12	106	60 - 140	95	60 - 130	<0.049	ug/g	NC	50
7512708	o-Xylene	2021/08/12	83	60 - 140	87	60 - 130	<0.020	ug/g	NC	50
7512708	p+m-Xylene	2021/08/12	83	60 - 140	86	60 - 130	<0.020	ug/g	NC	50
7512708	Styrene	2021/08/12	97	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7512708	Tetrachloroethylene	2021/08/12	82	60 - 140	85	60 - 130	<0.040	ug/g	NC	50
7512708	Toluene	2021/08/12	84	60 - 140	86	60 - 130	<0.020	ug/g	NC	50
7512708	Total Xylenes	2021/08/12					<0.020	ug/g	NC	50
7512708	trans-1,2-Dichloroethylene	2021/08/12	96	60 - 140	88	60 - 130	<0.040	ug/g	NC	50
7512708	trans-1,3-Dichloropropene	2021/08/12	100	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7512708	Trichloroethylene	2021/08/12	96	60 - 140	98	60 - 130	<0.010	ug/g	NC	50
7512708	Trichlorofluoromethane (FREON 11)	2021/08/12	87	60 - 140	80	60 - 130	<0.040	ug/g	NC	50
7512708	Vinyl Chloride	2021/08/12	87	60 - 140	79	60 - 130	<0.019	ug/g	NC	50
7512963	Available (CaCl2) pH	2021/08/11			100	97 - 103			0.054	N/A
7513006	Chromium (VI)	2021/08/12	39 (1)	70 - 130	93	80 - 120	<0.18	ug/g	NC	35
7513202	Available (CaCl2) pH	2021/08/11			100	97 - 103			0.91	N/A
7513312	Chromium (VI)	2021/08/12	60 (2)	70 - 130	89	80 - 120	<0.18	ug/g	NC	35
7513358	Acid Extractable Antimony (Sb)	2021/08/16	92	75 - 125	103	80 - 120	<0.20	ug/g	NC	30
7513358	Acid Extractable Arsenic (As)	2021/08/16	105	75 - 125	101	80 - 120	<1.0	ug/g	5.3	30
7513358	Acid Extractable Barium (Ba)	2021/08/16	NC	75 - 125	103	80 - 120	<0.50	ug/g	2.5	30
7513358	Acid Extractable Beryllium (Be)	2021/08/16	106	75 - 125	102	80 - 120	<0.20	ug/g	7.4	30
7513358	Acid Extractable Boron (B)	2021/08/16	100	75 - 125	97	80 - 120	<5.0	ug/g	8.2	30
7513358	Acid Extractable Cadmium (Cd)	2021/08/16	106	75 - 125	99	80 - 120	<0.10	ug/g	1.4	30
7513358	Acid Extractable Chromium (Cr)	2021/08/16	NC	75 - 125	101	80 - 120	<1.0	ug/g	3.1	30
7513358	Acid Extractable Cobalt (Co)	2021/08/16	104	75 - 125	99	80 - 120	<0.10	ug/g	4.5	30
7513358	Acid Extractable Copper (Cu)	2021/08/16	NC	75 - 125	98	80 - 120	<0.50	ug/g	0.17	30
7513358	Acid Extractable Lead (Pb)	2021/08/16	102	75 - 125	96	80 - 120	<1.0	ug/g	5.1	30
7513358	Acid Extractable Mercury (Hg)	2021/08/16	96	75 - 125	94	80 - 120	<0.050	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7513358	Acid Extractable Molybdenum (Mo)	2021/08/16	102	75 - 125	95	80 - 120	<0.50	ug/g	NC	30
7513358	Acid Extractable Nickel (Ni)	2021/08/16	NC	75 - 125	104	80 - 120	<0.50	ug/g	7.3	30
7513358	Acid Extractable Selenium (Se)	2021/08/16	103	75 - 125	97	80 - 120	<0.50	ug/g	NC	30
7513358	Acid Extractable Silver (Ag)	2021/08/16	105	75 - 125	97	80 - 120	<0.20	ug/g	NC	30
7513358	Acid Extractable Thallium (Tl)	2021/08/16	101	75 - 125	97	80 - 120	<0.050	ug/g	4.0	30
7513358	Acid Extractable Uranium (U)	2021/08/16	103	75 - 125	95	80 - 120	<0.050	ug/g	1.9	30
7513358	Acid Extractable Vanadium (V)	2021/08/16	NC	75 - 125	102	80 - 120	<5.0	ug/g	1.4	30
7513358	Acid Extractable Zinc (Zn)	2021/08/16	NC	75 - 125	100	80 - 120	<5.0	ug/g	5.3	30
7513430	Hot Water Ext. Boron (B)	2021/08/11	94	75 - 125	94	75 - 125	<0.050	ug/g	7.7	40
7513749	Acid Extractable Antimony (Sb)	2021/08/13	81	75 - 125	104	80 - 120	<0.20	ug/g	21	30
7513749	Acid Extractable Arsenic (As)	2021/08/13	86	75 - 125	98	80 - 120	<1.0	ug/g	8.8	30
7513749	Acid Extractable Barium (Ba)	2021/08/13	NC	75 - 125	104	80 - 120	<0.50	ug/g	5.8	30
7513749	Acid Extractable Beryllium (Be)	2021/08/13	86	75 - 125	97	80 - 120	<0.20	ug/g	4.9	30
7513749	Acid Extractable Boron (B)	2021/08/13	77	75 - 125	96	80 - 120	<5.0	ug/g	0.87	30
7513749	Acid Extractable Cadmium (Cd)	2021/08/13	93	75 - 125	101	80 - 120	<0.10	ug/g	15	30
7513749	Acid Extractable Chromium (Cr)	2021/08/13	91	75 - 125	96	80 - 120	<1.0	ug/g	1.6	30
7513749	Acid Extractable Cobalt (Co)	2021/08/13	88	75 - 125	100	80 - 120	<0.10	ug/g	1.8	30
7513749	Acid Extractable Copper (Cu)	2021/08/13	104	75 - 125	100	80 - 120	<0.50	ug/g	0.41	30
7513749	Acid Extractable Lead (Pb)	2021/08/13	93	75 - 125	102	80 - 120	<1.0	ug/g	2.0	30
7513749	Acid Extractable Mercury (Hg)	2021/08/13	82	75 - 125	90	80 - 120	<0.050	ug/g	NC	30
7513749	Acid Extractable Molybdenum (Mo)	2021/08/13	94	75 - 125	102	80 - 120	<0.50	ug/g	17	30
7513749	Acid Extractable Nickel (Ni)	2021/08/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	0.53	30
7513749	Acid Extractable Selenium (Se)	2021/08/13	94	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
7513749	Acid Extractable Silver (Ag)	2021/08/13	93	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7513749	Acid Extractable Thallium (Tl)	2021/08/13	94	75 - 125	104	80 - 120	<0.050	ug/g	9.0	30
7513749	Acid Extractable Uranium (U)	2021/08/13	96	75 - 125	105	80 - 120	<0.050	ug/g	1.2	30
7513749	Acid Extractable Vanadium (V)	2021/08/13	NC	75 - 125	100	80 - 120	<5.0	ug/g	0.53	30
7513749	Acid Extractable Zinc (Zn)	2021/08/13	NC	75 - 125	99	80 - 120	<5.0	ug/g	1.1	30
7513761	Hot Water Ext. Boron (B)	2021/08/12	96	75 - 125	92	75 - 125	<0.050	ug/g	3.5	40
7513819	Hot Water Ext. Boron (B)	2021/08/12	100	75 - 125	97	75 - 125	<0.050	ug/g	4.0	40
7513921	1-Methylnaphthalene	2021/08/12	NC	50 - 130	87	50 - 130	<0.0050	ug/g	75 (3)	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7513921	2-Methylnaphthalene	2021/08/12	NC	50 - 130	78	50 - 130	<0.0050	ug/g	85 (3)	40
7513921	Acenaphthene	2021/08/12	NC	50 - 130	78	50 - 130	<0.0050	ug/g	52 (3)	40
7513921	Acenaphthylene	2021/08/12	100	50 - 130	81	50 - 130	<0.0050	ug/g	NC	40
7513921	Anthracene	2021/08/12	128	50 - 130	87	50 - 130	<0.0050	ug/g	79 (3)	40
7513921	Benzo(a)anthracene	2021/08/12	NC	50 - 130	95	50 - 130	<0.0050	ug/g	24	40
7513921	Benzo(a)pyrene	2021/08/12	126	50 - 130	80	50 - 130	<0.0050	ug/g	17	40
7513921	Benzo(b/j)fluoranthene	2021/08/12	107	50 - 130	81	50 - 130	<0.0050	ug/g	19	40
7513921	Benzo(g,h,i)perylene	2021/08/12	105	50 - 130	90	50 - 130	<0.0050	ug/g	6.5	40
7513921	Benzo(k)fluoranthene	2021/08/12	81	50 - 130	79	50 - 130	<0.0050	ug/g	19	40
7513921	Chrysene	2021/08/12	118	50 - 130	92	50 - 130	<0.0050	ug/g	12	40
7513921	Dibenzo(a,h)anthracene	2021/08/12	103	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7513921	Fluoranthene	2021/08/12	NC	50 - 130	91	50 - 130	<0.0050	ug/g	31	40
7513921	Fluorene	2021/08/12	129	50 - 130	79	50 - 130	<0.0050	ug/g	49 (3)	40
7513921	Indeno(1,2,3-cd)pyrene	2021/08/12	112	50 - 130	99	50 - 130	<0.0050	ug/g	7.3	40
7513921	Naphthalene	2021/08/12	97	50 - 130	73	50 - 130	<0.0050	ug/g	76 (3)	40
7513921	Phenanthrene	2021/08/12	NC	50 - 130	85	50 - 130	<0.0050	ug/g	37	40
7513921	Pyrene	2021/08/12	NC	50 - 130	92	50 - 130	<0.0050	ug/g	28	40
7513985	Acid Extractable Antimony (Sb)	2021/08/12	98	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
7513985	Acid Extractable Arsenic (As)	2021/08/12	103	75 - 125	97	80 - 120	<1.0	ug/g	5.7	30
7513985	Acid Extractable Barium (Ba)	2021/08/12	NC	75 - 125	98	80 - 120	<0.50	ug/g	5.7	30
7513985	Acid Extractable Beryllium (Be)	2021/08/12	102	75 - 125	92	80 - 120	<0.20	ug/g	0.51	30
7513985	Acid Extractable Boron (B)	2021/08/12	98	75 - 125	84	80 - 120	<5.0	ug/g	NC	30
7513985	Acid Extractable Cadmium (Cd)	2021/08/12	105	75 - 125	95	80 - 120	<0.10	ug/g	17	30
7513985	Acid Extractable Chromium (Cr)	2021/08/12	110	75 - 125	95	80 - 120	<1.0	ug/g	3.3	30
7513985	Acid Extractable Cobalt (Co)	2021/08/12	104	75 - 125	97	80 - 120	<0.10	ug/g	8.0	30
7513985	Acid Extractable Copper (Cu)	2021/08/12	102	75 - 125	97	80 - 120	<0.50	ug/g	6.7	30
7513985	Acid Extractable Lead (Pb)	2021/08/12	105	75 - 125	99	80 - 120	<1.0	ug/g	0.29	30
7513985	Acid Extractable Mercury (Hg)	2021/08/12	97	75 - 125	96	80 - 120	<0.050	ug/g	NC	30
7513985	Acid Extractable Molybdenum (Mo)	2021/08/12	108	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
7513985	Acid Extractable Nickel (Ni)	2021/08/12	102	75 - 125	95	80 - 120	<0.50	ug/g	0.081	30
7513985	Acid Extractable Selenium (Se)	2021/08/12	115	75 - 125	102	80 - 120	<0.50	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7513985	Acid Extractable Silver (Ag)	2021/08/12	110	75 - 125	103	80 - 120	<0.20	ug/g	NC	30
7513985	Acid Extractable Thallium (Tl)	2021/08/12	106	75 - 125	100	80 - 120	<0.050	ug/g	0.039	30
7513985	Acid Extractable Uranium (U)	2021/08/12	105	75 - 125	98	80 - 120	<0.050	ug/g	0.55	30
7513985	Acid Extractable Vanadium (V)	2021/08/12	106	75 - 125	96	80 - 120	<5.0	ug/g	3.0	30
7513985	Acid Extractable Zinc (Zn)	2021/08/12	NC	75 - 125	91	80 - 120	<5.0	ug/g	6.5	30
7514094	F2 (C10-C16 Hydrocarbons)	2021/08/12	90	50 - 130	90	80 - 120	<10	ug/g	NC	30
7514094	F3 (C16-C34 Hydrocarbons)	2021/08/12	90	50 - 130	91	80 - 120	<50	ug/g	NC	30
7514094	F4 (C34-C50 Hydrocarbons)	2021/08/12	94	50 - 130	94	80 - 120	<50	ug/g	NC	30
7514845	Benzene	2021/08/11	113	50 - 140	112	50 - 140	<0.020	ug/g	NC	50
7514845	Ethylbenzene	2021/08/11	118	50 - 140	115	50 - 140	<0.020	ug/g	NC	50
7514845	F1 (C6-C10) - BTEX	2021/08/11					<10	ug/g	NC	30
7514845	F1 (C6-C10)	2021/08/11	92	60 - 140	87	80 - 120	<10	ug/g	NC	30
7514845	o-Xylene	2021/08/11	115	50 - 140	108	50 - 140	<0.020	ug/g	NC	50
7514845	p+m-Xylene	2021/08/11	106	50 - 140	100	50 - 140	<0.040	ug/g	NC	50
7514845	Toluene	2021/08/11	101	50 - 140	97	50 - 140	<0.020	ug/g	NC	50
7514845	Total Xylenes	2021/08/11					<0.040	ug/g	NC	50
7515055	Conductivity	2021/08/12			101	90 - 110	<0.002	mS/cm	0.41	10
7515271	Conductivity	2021/08/12			99	90 - 110	<0.002	mS/cm	0.84	10
7515344	Conductivity	2021/08/12			99	90 - 110	<0.002	mS/cm	1.5	10
7516086	a-Chlordane	2021/08/13	93	50 - 130	89	50 - 130	<0.0020	ug/g	NC	40
7516086	Aldrin	2021/08/13	80	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7516086	Aroclor 1242	2021/08/13					<0.015	ug/g	NC	40
7516086	Aroclor 1248	2021/08/13					<0.015	ug/g	NC	40
7516086	Aroclor 1254	2021/08/13					<0.015	ug/g	NC	40
7516086	Aroclor 1260	2021/08/13					<0.015	ug/g	NC	40
7516086	Dieldrin	2021/08/13	116	50 - 130	126	50 - 130	<0.0020	ug/g	NC	40
7516086	Endosulfan I (alpha)	2021/08/13	84	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7516086	Endosulfan II (beta)	2021/08/13	90	50 - 130	107	50 - 130	<0.0020	ug/g	NC	40
7516086	Endrin	2021/08/13	115	50 - 130	116	50 - 130	<0.0020	ug/g	NC	40
7516086	g-Chlordane	2021/08/13	85	50 - 130	89	50 - 130	<0.0020	ug/g	NC	40
7516086	Heptachlor epoxide	2021/08/13	93	50 - 130	117	50 - 130	<0.0020	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7516086	Heptachlor	2021/08/13	81	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7516086	Hexachlorobenzene	2021/08/13	83	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7516086	Hexachlorobutadiene	2021/08/13	82	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40
7516086	Hexachloroethane	2021/08/13	61	50 - 130	75	50 - 130	<0.0020	ug/g	NC	40
7516086	Lindane	2021/08/13	82	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
7516086	Methoxychlor	2021/08/13	123	50 - 130	123	50 - 130	<0.0050	ug/g	NC	40
7516086	o,p-DDD	2021/08/13	92	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40
7516086	o,p-DDE	2021/08/13	79	50 - 130	78	50 - 130	<0.0020	ug/g	NC	40
7516086	o,p-DDT	2021/08/13	102	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40
7516086	p,p-DDD	2021/08/13	85	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40
7516086	p,p-DDE	2021/08/13	84	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7516086	p,p-DDT	2021/08/13	93	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40
7524448	Moisture	2021/08/17							3.5	20
7526227	Chromium (VI)	2021/08/20	82	70 - 130	99	80 - 120	<0.18	ug/g	NC	35
7526663	Available (CaCl2) pH	2021/08/18			100	97 - 103			0.84	N/A
7526812	WAD Cyanide (Free)	2021/08/19	104	75 - 125	99	80 - 120	<0.01	ug/g	NC	35
7528956	Hot Water Ext. Boron (B)	2021/08/19	103	75 - 125	104	75 - 125	<0.050	ug/g	8.6	40
7528966	Acid Extractable Antimony (Sb)	2021/08/19	93	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7528966	Acid Extractable Arsenic (As)	2021/08/19	97	75 - 125	100	80 - 120	<1.0	ug/g	6.4	30
7528966	Acid Extractable Barium (Ba)	2021/08/19	NC	75 - 125	94	80 - 120	<0.50	ug/g	3.4	30
7528966	Acid Extractable Beryllium (Be)	2021/08/19	95	75 - 125	95	80 - 120	<0.20	ug/g	9.9	30
7528966	Acid Extractable Boron (B)	2021/08/19	88	75 - 125	93	80 - 120	<5.0	ug/g	NC	30
7528966	Acid Extractable Cadmium (Cd)	2021/08/19	98	75 - 125	99	80 - 120	<0.10	ug/g	8.4	30
7528966	Acid Extractable Chromium (Cr)	2021/08/19	98	75 - 125	101	80 - 120	<1.0	ug/g	1.7	30
7528966	Acid Extractable Cobalt (Co)	2021/08/19	96	75 - 125	100	80 - 120	<0.10	ug/g	3.5	30
7528966	Acid Extractable Copper (Cu)	2021/08/19	96	75 - 125	98	80 - 120	<0.50	ug/g	3.1	30
7528966	Acid Extractable Lead (Pb)	2021/08/19	99	75 - 125	102	80 - 120	<1.0	ug/g	3.8	30
7528966	Acid Extractable Mercury (Hg)	2021/08/19	87	75 - 125	92	80 - 120	<0.050	ug/g	NC	30
7528966	Acid Extractable Molybdenum (Mo)	2021/08/19	101	75 - 125	100	80 - 120	<0.50	ug/g	5.0	30
7528966	Acid Extractable Nickel (Ni)	2021/08/19	99	75 - 125	102	80 - 120	<0.50	ug/g	2.4	30
7528966	Acid Extractable Selenium (Se)	2021/08/19	99	75 - 125	110	80 - 120	<0.50	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7528966	Acid Extractable Silver (Ag)	2021/08/19	98	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
7528966	Acid Extractable Thallium (Tl)	2021/08/19	97	75 - 125	102	80 - 120	<0.050	ug/g	8.4	30
7528966	Acid Extractable Uranium (U)	2021/08/19	101	75 - 125	104	80 - 120	<0.050	ug/g	22	30
7528966	Acid Extractable Vanadium (V)	2021/08/19	97	75 - 125	98	80 - 120	<5.0	ug/g	8.2	30
7528966	Acid Extractable Zinc (Zn)	2021/08/19	NC	75 - 125	103	80 - 120	<5.0	ug/g	22	30
7529089	Acid Extractable Antimony (Sb)	2021/08/20	87	75 - 125	94	80 - 120	<0.20	ug/g	NC	30
7529089	Acid Extractable Arsenic (As)	2021/08/20	90	75 - 125	92	80 - 120	<1.0	ug/g		
7529089	Acid Extractable Barium (Ba)	2021/08/20	NC	75 - 125	92	80 - 120	<0.50	ug/g	4.8	30
7529089	Acid Extractable Beryllium (Be)	2021/08/20	93	75 - 125	94	80 - 120	<0.20	ug/g	1.0	30
7529089	Acid Extractable Boron (B)	2021/08/20	91	75 - 125	94	80 - 120	<5.0	ug/g	2.9	30
7529089	Acid Extractable Cadmium (Cd)	2021/08/20	91	75 - 125	92	80 - 120	<0.10	ug/g	NC	30
7529089	Acid Extractable Chromium (Cr)	2021/08/20	93	75 - 125	94	80 - 120	<1.0	ug/g		
7529089	Acid Extractable Cobalt (Co)	2021/08/20	90	75 - 125	92	80 - 120	<0.10	ug/g	2.4	30
7529089	Acid Extractable Copper (Cu)	2021/08/20	89	75 - 125	91	80 - 120	<0.50	ug/g	3.6	30
7529089	Acid Extractable Lead (Pb)	2021/08/20	85	75 - 125	89	80 - 120	<1.0	ug/g	2.8	30
7529089	Acid Extractable Mercury (Hg)	2021/08/20	86	75 - 125	88	80 - 120	<0.050	ug/g	NC	30
7529089	Acid Extractable Molybdenum (Mo)	2021/08/20	89	75 - 125	90	80 - 120	<0.50	ug/g	NC	30
7529089	Acid Extractable Nickel (Ni)	2021/08/20	93	75 - 125	95	80 - 120	<0.50	ug/g	2.4	30
7529089	Acid Extractable Selenium (Se)	2021/08/20	90	75 - 125	94	80 - 120	<0.50	ug/g	NC	30
7529089	Acid Extractable Silver (Ag)	2021/08/20	91	75 - 125	94	80 - 120	<0.20	ug/g	NC	30
7529089	Acid Extractable Thallium (Tl)	2021/08/20	85	75 - 125	88	80 - 120	<0.050	ug/g		
7529089	Acid Extractable Uranium (U)	2021/08/20	91	75 - 125	94	80 - 120	<0.050	ug/g		
7529089	Acid Extractable Vanadium (V)	2021/08/20	NC	75 - 125	94	80 - 120	<5.0	ug/g	5.3	30
7529089	Acid Extractable Zinc (Zn)	2021/08/20	NC	75 - 125	93	80 - 120	<5.0	ug/g	3.0	30
7529298	Acid Extractable Antimony (Sb)	2021/08/20	89	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7529298	Acid Extractable Arsenic (As)	2021/08/20	92	75 - 125	96	80 - 120	<1.0	ug/g	1.0	30
7529298	Acid Extractable Barium (Ba)	2021/08/20	NC	75 - 125	98	80 - 120	<0.50	ug/g	3.8	30
7529298	Acid Extractable Beryllium (Be)	2021/08/20	94	75 - 125	97	80 - 120	<0.20	ug/g	3.6	30
7529298	Acid Extractable Boron (B)	2021/08/20	94	75 - 125	96	80 - 120	<5.0	ug/g	NC	30
7529298	Acid Extractable Cadmium (Cd)	2021/08/20	92	75 - 125	96	80 - 120	<0.10	ug/g	NC	30
7529298	Acid Extractable Chromium (Cr)	2021/08/20	94	75 - 125	96	80 - 120	<1.0	ug/g	1.2	30

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7529298	Acid Extractable Cobalt (Co)	2021/08/20	92	75 - 125	95	80 - 120	<0.10	ug/g	0.11	30
7529298	Acid Extractable Copper (Cu)	2021/08/20	88	75 - 125	95	80 - 120	<0.50	ug/g	7.7	30
7529298	Acid Extractable Lead (Pb)	2021/08/20	86	75 - 125	90	80 - 120	<1.0	ug/g	0.39	30
7529298	Acid Extractable Mercury (Hg)	2021/08/20	80	75 - 125	84	80 - 120	<0.050	ug/g	NC	30
7529298	Acid Extractable Molybdenum (Mo)	2021/08/20	90	75 - 125	95	80 - 120	<0.50	ug/g	NC	30
7529298	Acid Extractable Nickel (Ni)	2021/08/20	94	75 - 125	98	80 - 120	<0.50	ug/g	7.1	30
7529298	Acid Extractable Selenium (Se)	2021/08/20	93	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
7529298	Acid Extractable Silver (Ag)	2021/08/20	90	75 - 125	94	80 - 120	<0.20	ug/g	NC	30
7529298	Acid Extractable Thallium (Tl)	2021/08/20	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30
7529298	Acid Extractable Uranium (U)	2021/08/20	92	75 - 125	95	80 - 120	<0.050	ug/g	5.6	30
7529298	Acid Extractable Vanadium (V)	2021/08/20	91	75 - 125	98	80 - 120	<5.0	ug/g	7.1	30
7529298	Acid Extractable Zinc (Zn)	2021/08/20	94	75 - 125	96	80 - 120	<5.0	ug/g	3.2	30
7531430	Conductivity	2021/08/20			98	90 - 110	<0.002	mS/cm	2.4	10

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.

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) 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.

(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 sample was reanalyzed with the same results

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

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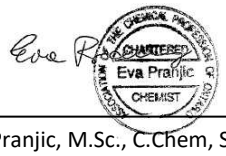
BV Labs Job #: C1M4205
Report Date: 2021/08/23

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD
Sampler Initials: SML

VALIDATION SIGNATURE PAGE

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



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

BV Labs 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 Signature Page.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C01024
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:	
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	8547 Grossy Brook Rd
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:	
				Sampled By:	SML

09-Aug-21 15:51
Ema Gitej
C1M4205
M1K ENV-983

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [X] Table 1 [X] Res/Park [ ] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [X] Coarse
- [ ] Table 3 [ ] Agri/Other [ ] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558. [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	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 (Soil)	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 OC Pesticides (Soil)	# of Bottles	Comments
1		BH101-1	21/08/03	945	SOIL	N		X	X	2	
2		BH101-3		1030				X	X	2	HOLD
3		BH102-1		1040				X	X	2	
4		BH102-2		1100			X			3	
5		BH102-20		1105			X			3	
6		BH102-3		1120			X	X	X	6	HOLD
7		BH103-1		1140				X	X	2	
8		BH103-10		1145					X	1	
9		BH103-3		1210				X	X	2	HOLD
10		BH104-01		1230				X	X	2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
S Legros Sara Legros	21/08/09	12:30		21/08/09	1551	0

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei 7/7/7 6/6/6 11/6/6
Custody Seal Present Yes ✓ No
Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C01024	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00	COC #: C#839290-04-01	Project Manager: Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	8547 Grossy Brook Rd		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	SML		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☒ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☒ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O. Reg 153 PHCs, BTEX/F1-F4 (Soil)	O. Reg 153 Metals & Inorganics Pkg (Soil)	O. Reg 153 OC Pesticides (Soil)	O. Reg 153 PAHs	pH	O. Reg 153 VOCs	# of Bottles	Comments
1		[redacted] BH104-3	21/08/03	1305	SOIL		X	X				2	HOLD
2		BH105-1		1325			X	X				2	
3		BH105-2		1700		X						3	
4		BH105-3		1720		X	X	X				5	HOLD
5		[redacted] MW106-1	21/08/04	715		X	X	X	X			5	
6		MW106-4		815						X		4	pH only; remaining jars on HOLD
7		MW106-9		940		X					X	3	
8		MW106-90		945		X					X	3	
9		BH107-1		1130		X	X	X	X			5	
10		BH107-3A		1150		X						3	HOLD

* 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: Time Sensitive	Temperature (°C) on Recei	Custody Seal: Present / Intact	Yes	No
Sara Negros	21/08/09	12:30	[illegible]			Ø					

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C01024	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00		
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	8547 Grassy Brook Rd	COC #: C#839290-03-01	Project Manager: Ema Gitej
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	SML		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☒ Table 1 ☒ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☑ Coarse; ☐ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	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 (Soil)	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 OC Pesticides (Soil)	H2O							# of Bottles	Comments
1		BH107-4	21/08/04	1205	SOIL	N	X	X									4	HOLD
2		MW108-1		1430				X	X								2	
3		MW108-3		1450				X	X								2	HOLD
4		MW109-1	21/08/05	720				X	X								2	
5		MW109-10		725					X								1	
6		MW109-5		900						X							2	
7		MW110-1		955				X	X								2	
8		MW110-10		1000				X									1	
9		BH111-1		1330				X	X								3	
10		BH111-10		1335				X									2	

* 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: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
sara Legros	21/08/09	12:30				Ø			Present Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C01024	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00		
				Project Name:	8547 Grassy Brook RD	COC #: C#839290-05-01	Project Manager: Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:			
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	SML		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☒ Coarse; ☐ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

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Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified)
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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	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 (Soil)	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 OC Pesticides (Soil)	O. Reg 153 PAHs						# of Bottles	Comments
1		BH112-1	21/08/05	1435	SOIL	N		X	X							2	
2		MW113-1	21/08/06	730					+							1	
3		MW113-10		735					+							1	
4		MW113-2		755				X								1	
5		MW113-20		800				X								1	
6		BH114-1		945			X	X	+	X						5	
7		BH114-10		950						X						1	
8		BH115-1		1050				X	X							2	
9		BH116-1		1230				X	X							2	
10		BH117-1		1300				X	X							2	

* 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: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
sara legros	21/08/09	12:30							Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C01024	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00		
				Project Name:	8547 Grassy Brook Rd	COC #: C#839290-07-01	Project Manager: Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:			
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	SML		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [x] Table 1 [x] Res/Park [ ] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/Other [ ] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558. [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	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 (Soil)	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 OC Pesticides (Soil)	O. Reg VOCs / PHC F1						# of Bottles	Comments
1		GS101	21/08/03	930	SOIL	N		X								1	
2		GS102	21/08/03	1130				X								1	
3		GS103	21/08/04	700				X								1	
4		GS104	21/08/06	1040				X								1	
5		Methanol Blank	21/08/06	1400	SOIL	N				+						2	
6																	
7																	
8																	
9																	
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: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Sara Legros	21/08/09	12:30				0			Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

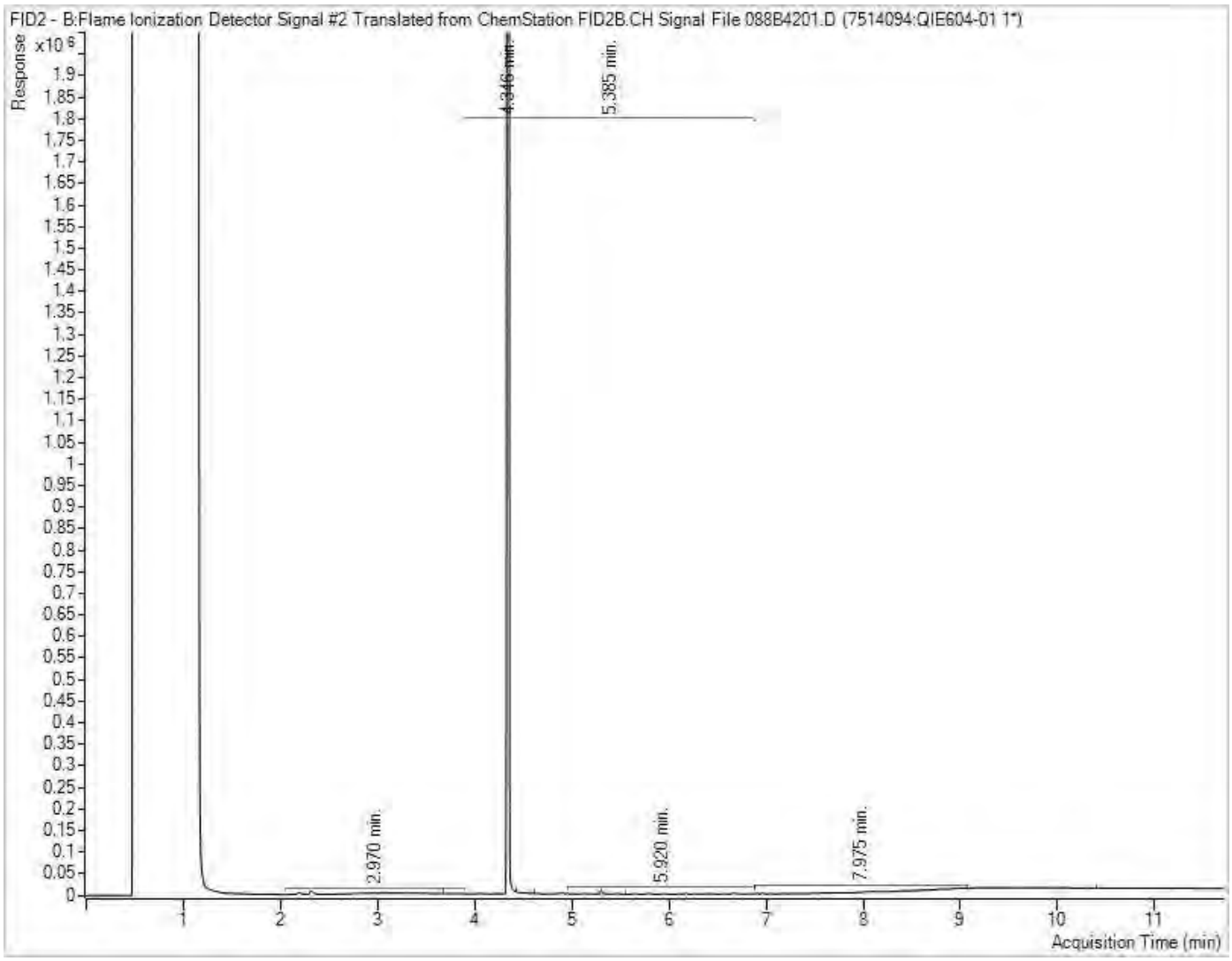
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE604

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: BH102-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

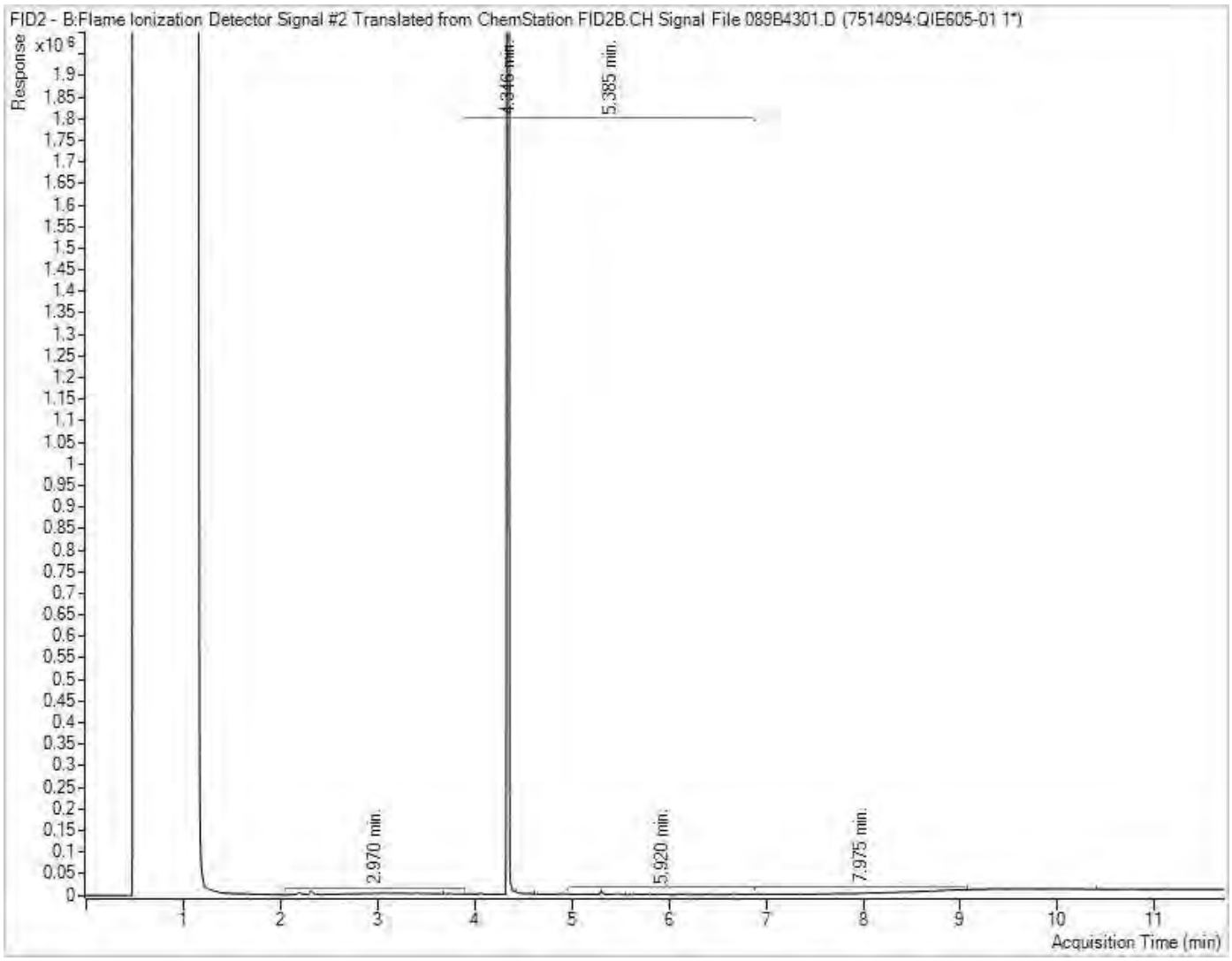


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE605

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: BH102-20

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

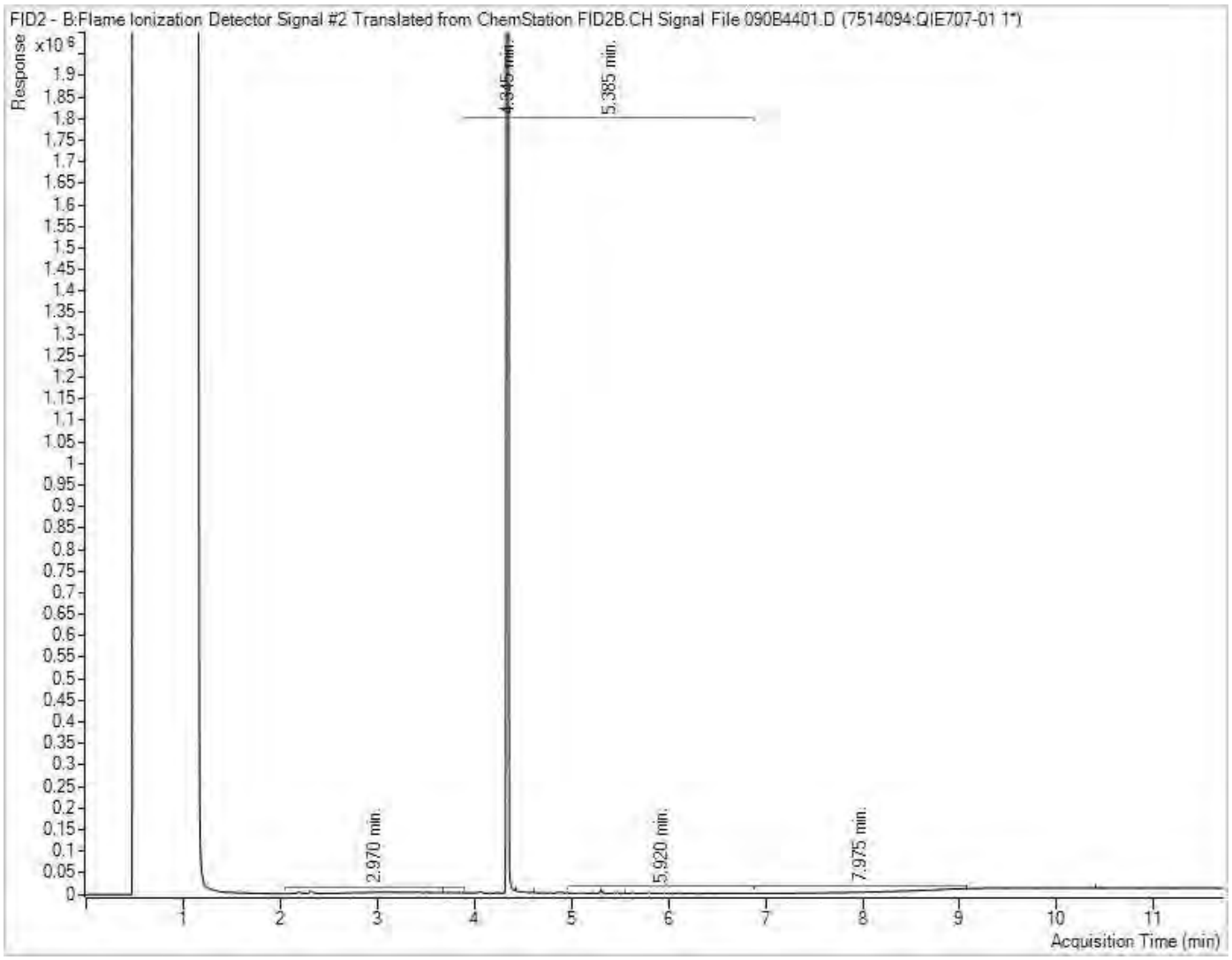


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE707

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: BH105-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

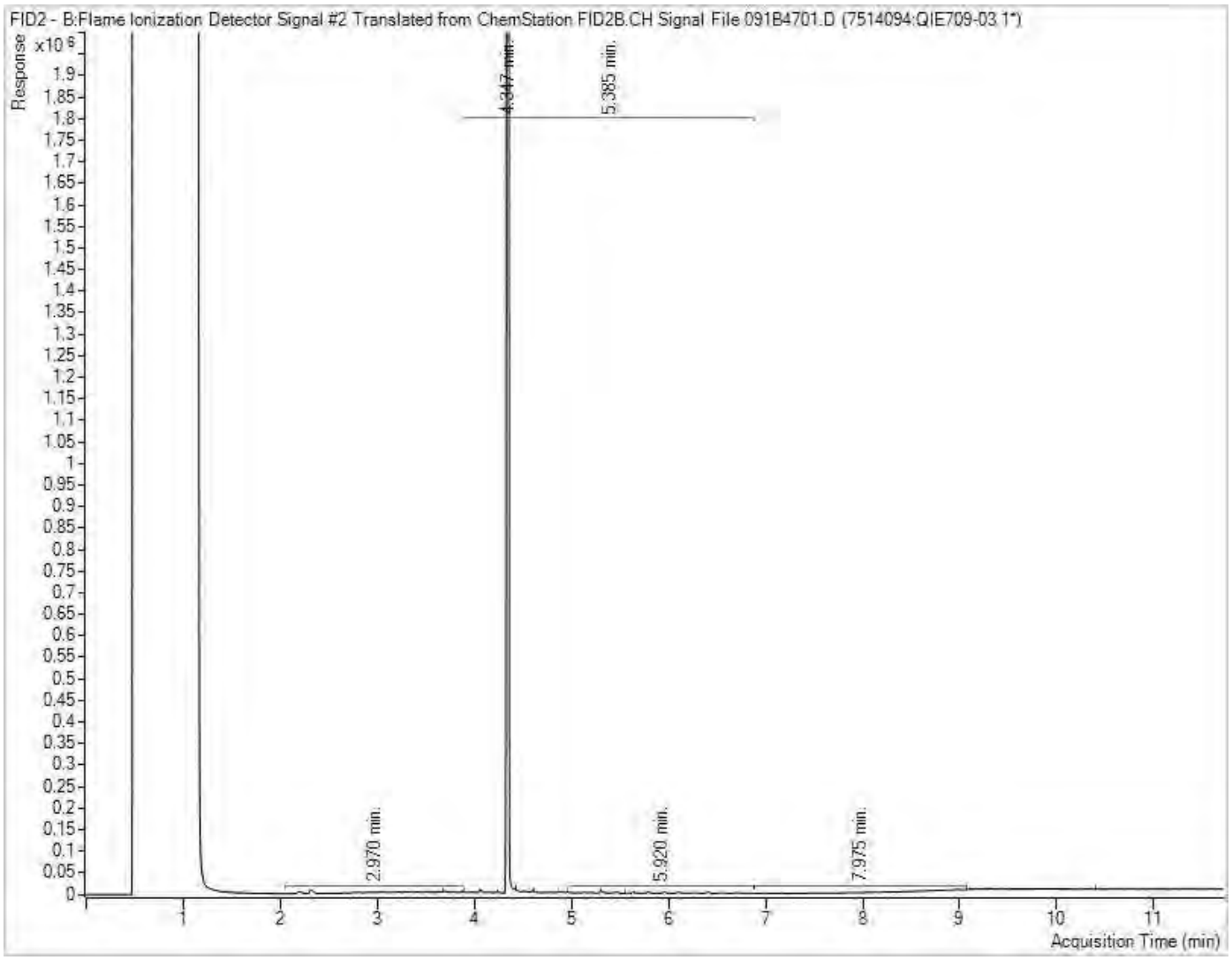


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE709

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: MW106-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

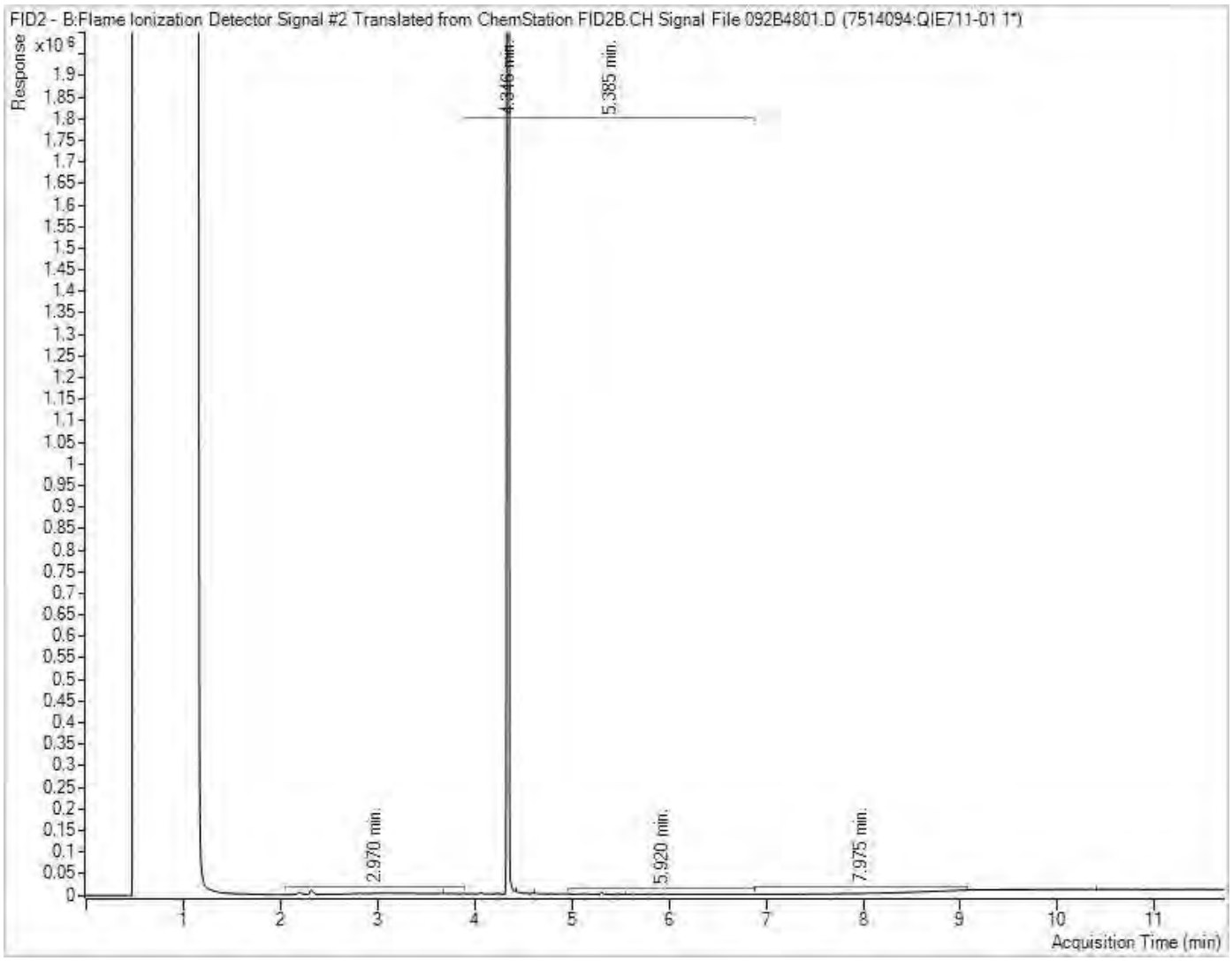


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE711

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: MW106-9

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

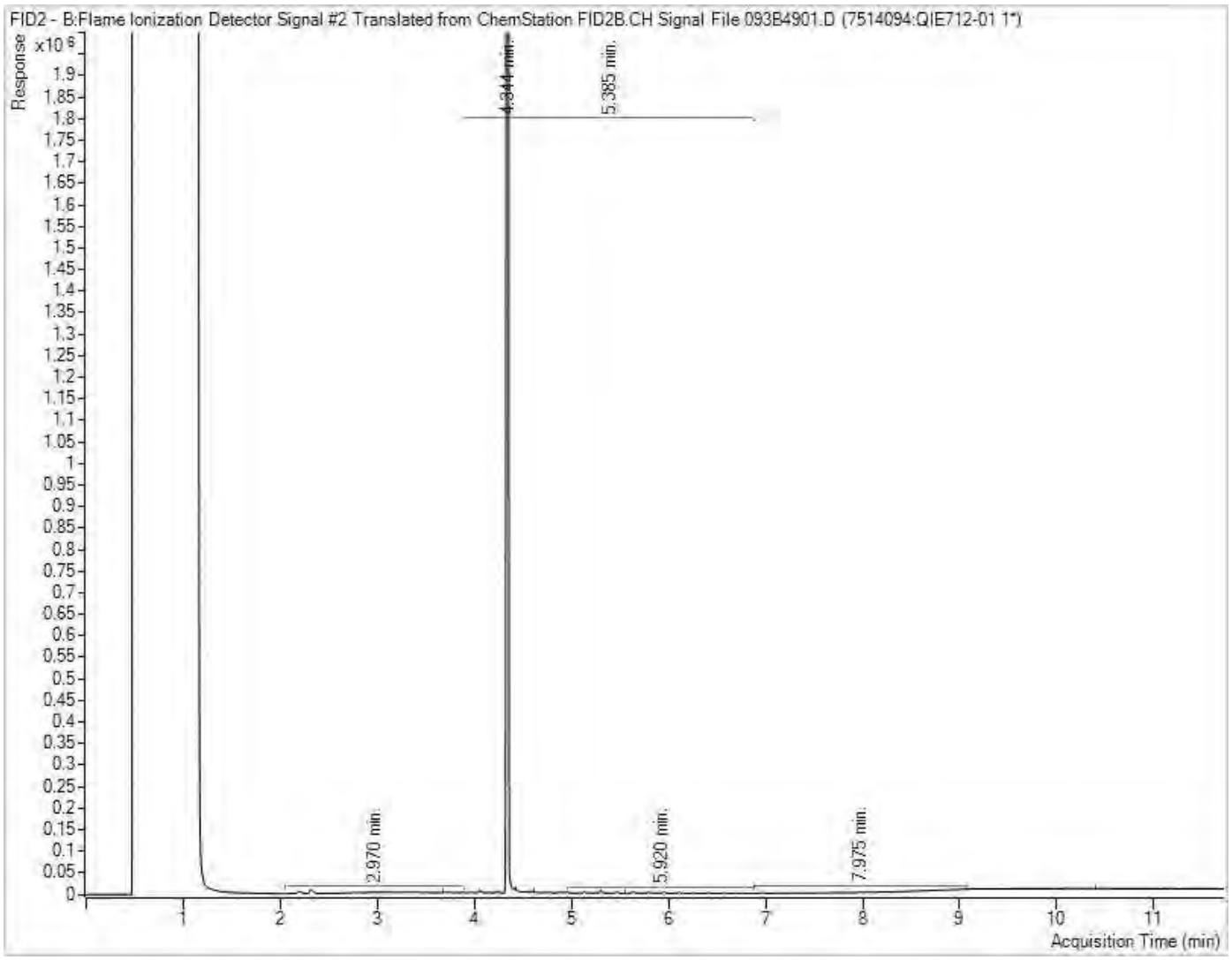


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE712

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: MW106-90

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

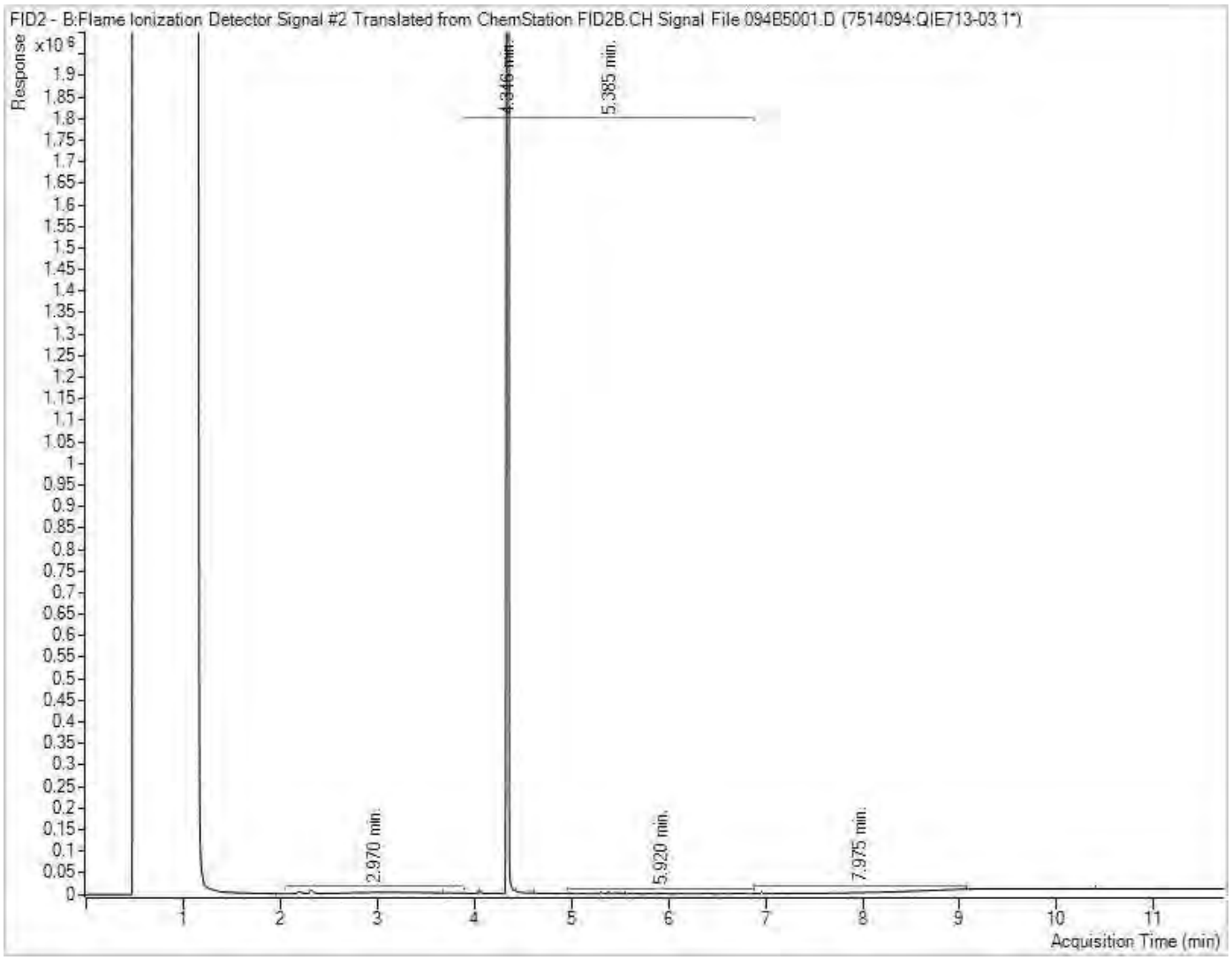


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE713

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: BH107-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

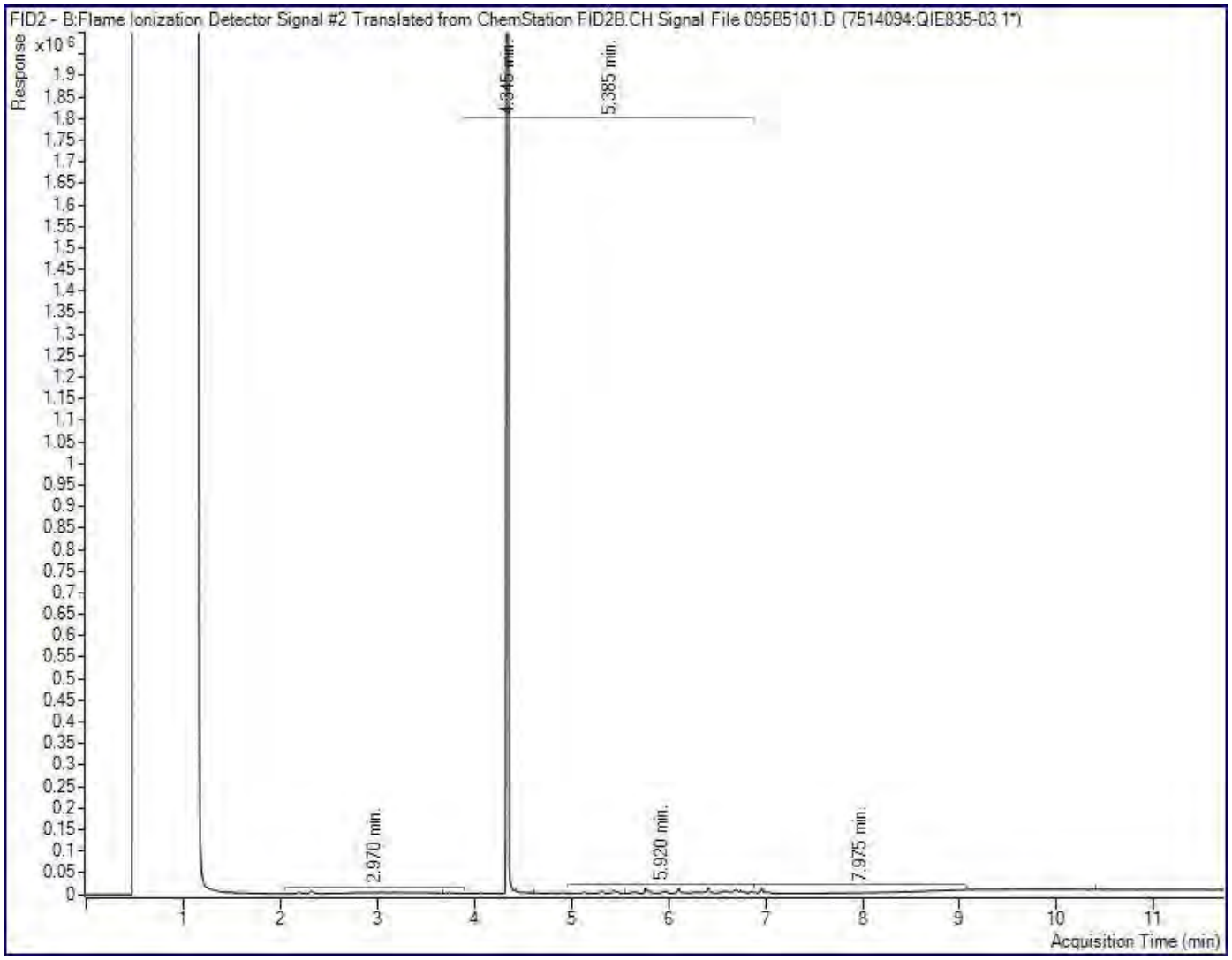


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1M4205
Report Date: 2021/08/23
BV Labs Sample: QIE835

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD
Client ID: BH114-1

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.

Your Project #: CT3243.00
Your C.O.C. #: 839290-08-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/26
Report #: R6782668
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N6561
Received: 2021/08/19, 16:07

Sample Matrix: Soil
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	3	2021/08/25	2021/08/25	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	3	2021/08/25	2021/08/25	CAM SOP-00457	OMOE E3015 m
Conductivity	3	2021/08/25	2021/08/25	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	3	2021/08/24	2021/08/25	CAM SOP-00436	EPA 3060/7199 m
Acid Extractable Metals by ICPMS	3	2021/08/25	2021/08/25	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2021/08/24	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	3	2021/08/24	2021/08/24	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	3	N/A	2021/08/25	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.

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.

Your Project #: CT3243.00
Your C.O.C. #: 839290-08-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/26
Report #: R6782668
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N6561
Received: 2021/08/19, 16:07

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ema Gitej, Senior Project Manager
Email: emese.gitej@bureauveritas.com
Phone# (905)817-5829

==========

BV Labs 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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		QKT177	QKT178	QKT179		
Sampling Date		2021/08/08 13:30	2021/08/08 13:45	2021/08/08 14:00		
COC Number		839290-08-01	839290-08-01	839290-08-01		
	UNITS	MW110-3	BH111-3	MW113-3	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.80	0.21	0.18		7537416
Inorganics						
Conductivity	mS/cm	0.88	0.30	1.9	0.002	7540131
Moisture	%	23	19	20	1.0	7537721
Available (CaCl2) pH	pH	7.83	7.78	7.72		7538308
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	0.01	7539914
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	0.18	7539517
Metals						
Hot Water Ext. Boron (B)	ug/g	0.30	0.28	0.20	0.050	7540110
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	7540132
Acid Extractable Arsenic (As)	ug/g	5.3	5.9	5.1	1.0	7540132
Acid Extractable Barium (Ba)	ug/g	63	220	84	0.50	7540132
Acid Extractable Beryllium (Be)	ug/g	0.66	1.3	0.74	0.20	7540132
Acid Extractable Boron (B)	ug/g	9.0	11	10	5.0	7540132
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.11	<0.10	0.10	7540132
Acid Extractable Chromium (Cr)	ug/g	22	34	23	1.0	7540132
Acid Extractable Cobalt (Co)	ug/g	11	17	13	0.10	7540132
Acid Extractable Copper (Cu)	ug/g	24	34	23	0.50	7540132
Acid Extractable Lead (Pb)	ug/g	7.3	14	7.9	1.0	7540132
Acid Extractable Molybdenum (Mo)	ug/g	0.53	0.58	0.50	0.50	7540132
Acid Extractable Nickel (Ni)	ug/g	25	52	28	0.50	7540132
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	7540132
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	7540132
Acid Extractable Thallium (Tl)	ug/g	0.11	0.17	0.13	0.050	7540132
Acid Extractable Uranium (U)	ug/g	0.72	0.73	0.72	0.050	7540132
Acid Extractable Vanadium (V)	ug/g	30	49	33	5.0	7540132
Acid Extractable Zinc (Zn)	ug/g	52	75	57	5.0	7540132
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	7540132

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs Job #: C1N6561
Report Date: 2021/08/26

Terrapex Environmental Ltd
Client Project #: CT3243.00
Sampler Initials: SL

TEST SUMMARY

BV Labs ID: QKT177
Sample ID: MW110-3
Matrix: Soil

Collected: 2021/08/08
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7540110	2021/08/25	2021/08/25	Medhat Nasr
Free (WAD) Cyanide	TECH	7539914	2021/08/25	2021/08/25	Aditiben Patel
Conductivity	AT	7540131	2021/08/25	2021/08/25	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7539517	2021/08/24	2021/08/25	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7540132	2021/08/25	2021/08/25	Prempal Bhatti
Moisture	BAL	7537721	N/A	2021/08/24	Prgya Panchal
pH CaCl2 EXTRACT	AT	7538308	2021/08/24	2021/08/24	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7537416	N/A	2021/08/25	Automated Statchk

BV Labs ID: QKT178
Sample ID: BH111-3
Matrix: Soil

Collected: 2021/08/08
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7540110	2021/08/25	2021/08/25	Medhat Nasr
Free (WAD) Cyanide	TECH	7539914	2021/08/25	2021/08/25	Aditiben Patel
Conductivity	AT	7540131	2021/08/25	2021/08/25	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7539517	2021/08/24	2021/08/25	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7540132	2021/08/25	2021/08/25	Prempal Bhatti
Moisture	BAL	7537721	N/A	2021/08/24	Prgya Panchal
pH CaCl2 EXTRACT	AT	7538308	2021/08/24	2021/08/24	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7537416	N/A	2021/08/25	Automated Statchk

BV Labs ID: QKT179
Sample ID: MW113-3
Matrix: Soil

Collected: 2021/08/08
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7540110	2021/08/25	2021/08/25	Medhat Nasr
Free (WAD) Cyanide	TECH	7539914	2021/08/25	2021/08/25	Aditiben Patel
Conductivity	AT	7540131	2021/08/25	2021/08/25	Massarat Jan
Hexavalent Chromium in Soil by IC	IC/SPEC	7539517	2021/08/24	2021/08/25	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7540132	2021/08/25	2021/08/25	Prempal Bhatti
Moisture	BAL	7537721	N/A	2021/08/24	Prgya Panchal
pH CaCl2 EXTRACT	AT	7538308	2021/08/24	2021/08/24	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7537416	N/A	2021/08/25	Automated Statchk

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

GENERAL COMMENTS

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

Package 1	11.3°C

Results relate only to the items tested.

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BV Labs Job #: C1N6561
Report Date: 2021/08/26

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.00
Sampler Initials: SL

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7537721	Moisture	2021/08/23							4.8	20
7538308	Available (CaCl2) pH	2021/08/24			100	97 - 103			0.028	N/A
7539517	Chromium (VI)	2021/08/25	33 (1)	70 - 130	84	80 - 120	<0.18	ug/g	NC	35
7539914	WAD Cyanide (Free)	2021/08/25	99	75 - 125	94	80 - 120	<0.01	ug/g	NC	35
7540110	Hot Water Ext. Boron (B)	2021/08/25	101	75 - 125	96	75 - 125	<0.050	ug/g	26	40
7540131	Conductivity	2021/08/25			99	90 - 110	<0.002	mS/cm	1.1	10
7540132	Acid Extractable Antimony (Sb)	2021/08/25	92	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7540132	Acid Extractable Arsenic (As)	2021/08/25	104	75 - 125	102	80 - 120	<1.0	ug/g	1.1	30
7540132	Acid Extractable Barium (Ba)	2021/08/25	NC	75 - 125	97	80 - 120	<0.50	ug/g	1.9	30
7540132	Acid Extractable Beryllium (Be)	2021/08/25	105	75 - 125	103	80 - 120	<0.20	ug/g	0.069	30
7540132	Acid Extractable Boron (B)	2021/08/25	92	75 - 125	103	80 - 120	<5.0	ug/g	NC	30
7540132	Acid Extractable Cadmium (Cd)	2021/08/25	103	75 - 125	99	80 - 120	<0.10	ug/g	9.5	30
7540132	Acid Extractable Chromium (Cr)	2021/08/25	103	75 - 125	97	80 - 120	<1.0	ug/g	1.7	30
7540132	Acid Extractable Cobalt (Co)	2021/08/25	103	75 - 125	97	80 - 120	<0.10	ug/g	3.1	30
7540132	Acid Extractable Copper (Cu)	2021/08/25	99	75 - 125	98	80 - 120	<0.50	ug/g	0.0098	30
7540132	Acid Extractable Lead (Pb)	2021/08/25	97	75 - 125	96	80 - 120	<1.0	ug/g	0.80	30
7540132	Acid Extractable Mercury (Hg)	2021/08/25	97	75 - 125	95	80 - 120	<0.050	ug/g	15	30
7540132	Acid Extractable Molybdenum (Mo)	2021/08/25	101	75 - 125	97	80 - 120	<0.50	ug/g	1.7	30
7540132	Acid Extractable Nickel (Ni)	2021/08/25	104	75 - 125	100	80 - 120	<0.50	ug/g	3.2	30
7540132	Acid Extractable Selenium (Se)	2021/08/25	101	75 - 125	101	80 - 120	<0.50	ug/g	4.5	30
7540132	Acid Extractable Silver (Ag)	2021/08/25	100	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
7540132	Acid Extractable Thallium (Tl)	2021/08/25	99	75 - 125	97	80 - 120	<0.050	ug/g	7.9	30
7540132	Acid Extractable Uranium (U)	2021/08/25	102	75 - 125	98	80 - 120	<0.050	ug/g	2.9	30
7540132	Acid Extractable Vanadium (V)	2021/08/25	NC	75 - 125	98	80 - 120	<5.0	ug/g	3.4	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7540132	Acid Extractable Zinc (Zn)	2021/08/25	NC	75 - 125	90	80 - 120	<5.0	ug/g	0.96	30

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.

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.

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) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results

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VALIDATION SIGNATURE PAGE

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

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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

BV Labs 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 Signature Page.

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CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex Environmental	Quotation #:	Terrapex (Std, B)	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd	Address:	65 [illegible] Rd. Hamilton	Project:	CT3243.00	COC #: C#839290-08-01	Project Manager: Ema Gitej
	Toronto ON M3B 2R7			Project Name:			
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:			
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	SL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): [x] Table 1 [x] Res/Park [ ] Medium/Fine [ ] Table 2 [ ] Ind/Comm [x] Coarse [ ] Table 3 [ ] Agri/Other [ ] For RSC [ ] Table ___

Other Regulations: [ ] CCME [ ] Sanitary Sewer Bylaw [ ] Reg 558 [ ] Storm Sewer Bylaw [ ] MISA Municipality ___ [ ] PWQO [ ] Reg 406 Table ___ [ ] Other ___

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; O.Reg 153 PHCs, BTEX/F1-F4 (Soil); O.Reg 153 Metals & Inorganics Pkg (Soil); O.Reg 153 OC Pesticides (Soil)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: [x]
(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
Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ (call lab for #)

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	O.Reg 153 PHCs, BTEX/F1-F4 (Soil)	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 OC Pesticides (Soil)	# of Bottles	Comments
1		MW110-3	21/8/21	1:30	Soil			X		1	
2		BH111-3	"	1:45	"			X		1	
3		MW113-3	"	2:00	"			X		1	
4											
5											
6											
7											
8											
9											
10											

19-Aug-21 16:07
Ema Gitej
C1N6561
DSG ENV-737

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only
[signature]	21/8/21	2:30	Parsel Parleel Khend	2021/08/19	16:07			Temperature (°C) on Receipt: 11/12/11; Custody Seal: Present / Intact — No

URE 2021/08/19

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

ON Melted Ice
BV Driver

Bureau Veritas Canada (2019) Inc.

Your Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Your C.O.C. #: 161141

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/06
Report #: R6753529
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5490
Received: 2021/07/30, 16:54

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride by Automated Colourimetry	1	N/A	2021/08/05	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	1	N/A	2021/08/04	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	1	N/A	2021/08/04	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2021/08/01	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2021/08/04	2021/08/05	CAM SOP-00316	CCME PHC-CWS m
Mercury	1	2021/08/04	2021/08/05	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	1	N/A	2021/08/03	CAM SOP-00447	EPA 6020B m

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.

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) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

Your Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Your C.O.C. #: 161141

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/06
Report #: R6753529
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5490
Received: 2021/07/30, 16:54
Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ema Gitej, Senior Project Manager
Email: emese.gitej@bureauveritas.com
Phone# (905)817-5829
==========
This report has been generated and distributed using a secure automated process.
BV Labs 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 Signature Page.

BV Labs Job #: C1L5490
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QGH160		
Sampling Date		2021/07/29 13:30		
COC Number		161141		
	UNITS	MW06	RDL	QC Batch
Inorganics				
WAD Cyanide (Free)	ug/L	<1	1	7500058
Dissolved Chloride (Cl-)	mg/L	17	1.0	7497924
Metals				
Chromium (VI)	ug/L	<0.50	0.50	7498335
Mercury (Hg)	ug/L	<0.10	0.10	7501968
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7498525
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7498525
Dissolved Barium (Ba)	ug/L	32	2.0	7498525
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7498525
Dissolved Boron (B)	ug/L	21	10	7498525
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7498525
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7498525
Dissolved Cobalt (Co)	ug/L	0.89	0.50	7498525
Dissolved Copper (Cu)	ug/L	1.1	0.90	7498525
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7498525
Dissolved Molybdenum (Mo)	ug/L	1.2	0.50	7498525
Dissolved Nickel (Ni)	ug/L	2.1	1.0	7498525
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7498525
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7498525
Dissolved Sodium (Na)	ug/L	42000	100	7498525
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7498525
Dissolved Uranium (U)	ug/L	3.9	0.10	7498525
Dissolved Vanadium (V)	ug/L	0.51	0.50	7498525
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7498525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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BV Labs Job #: C1L5490
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

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

BV Labs ID		QGH160		
Sampling Date		2021/07/29 13:30		
COC Number		161141		
	UNITS	MW06	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	7496020
Toluene	ug/L	<0.20	0.20	7496020
Ethylbenzene	ug/L	<0.20	0.20	7496020
o-Xylene	ug/L	<0.20	0.20	7496020
p+m-Xylene	ug/L	<0.40	0.40	7496020
Total Xylenes	ug/L	<0.40	0.40	7496020
F1 (C6-C10)	ug/L	<25	25	7496020
F1 (C6-C10) - BTEX	ug/L	<25	25	7496020
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7499048
F3 (C16-C34 Hydrocarbons)	ug/L	240	200	7499048
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7499048
Reached Baseline at C50	ug/L	Yes		7499048
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	100		7496020
4-Bromofluorobenzene	%	92		7496020
D10-o-Xylene	%	105		7496020
D4-1,2-Dichloroethane	%	103		7496020
o-Terphenyl	%	99		7499048

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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BV Labs Job #: C1L5490
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

TEST SUMMARY

BV Labs ID: QGH160
Sample ID: MW06
Matrix: Water

Collected: 2021/07/29
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7497924	N/A	2021/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	7498335	N/A	2021/08/04	Lang Le
Free (WAD) Cyanide	SKAL/CN	7500058	N/A	2021/08/04	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7496020	N/A	2021/08/01	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7499048	2021/08/04	2021/08/05	(Kent) Maolin Li
Mercury	CV/AA	7501968	2021/08/04	2021/08/05	Medhat Nasr
Dissolved Metals by ICPMS	ICP/MS	7498525	N/A	2021/08/03	Daniel Teclu

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BV Labs Job #: C1L5490
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

GENERAL COMMENTS

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

Package 1	4.0°C

Results relate only to the items tested.

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BV Labs Job #: C1L5490
Report Date: 2021/08/06

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7496020	1,4-Difluorobenzene	2021/08/01	95	70 - 130	96	70 - 130	102	%		
7496020	4-Bromofluorobenzene	2021/08/01	102	70 - 130	103	70 - 130	94	%		
7496020	D10-o-Xylene	2021/08/01	90	70 - 130	90	70 - 130	103	%		
7496020	D4-1,2-Dichloroethane	2021/08/01	102	70 - 130	98	70 - 130	100	%		
7499048	o-Terphenyl	2021/08/04	102	60 - 130	102	60 - 130	102	%		
7496020	Benzene	2021/08/01	99	50 - 140	102	50 - 140	<0.20	ug/L	3.1	30
7496020	Ethylbenzene	2021/08/01	106	50 - 140	110	50 - 140	<0.20	ug/L	NC	30
7496020	F1 (C6-C10) - BTEX	2021/08/01					<25	ug/L	NC	30
7496020	F1 (C6-C10)	2021/08/01	93	60 - 140	93	60 - 140	<25	ug/L	NC	30
7496020	o-Xylene	2021/08/01	105	50 - 140	107	50 - 140	<0.20	ug/L	NC	30
7496020	p+m-Xylene	2021/08/01	104	50 - 140	108	50 - 140	<0.40	ug/L	NC	30
7496020	Toluene	2021/08/01	95	50 - 140	97	50 - 140	<0.20	ug/L	NC	30
7496020	Total Xylenes	2021/08/01					<0.40	ug/L	NC	30
7497924	Dissolved Chloride (Cl-)	2021/08/05	112	80 - 120	107	80 - 120	<1.0	mg/L	2.0	20
7498335	Chromium (VI)	2021/08/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7498525	Dissolved Antimony (Sb)	2021/08/03	103	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7498525	Dissolved Arsenic (As)	2021/08/03	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7498525	Dissolved Barium (Ba)	2021/08/03	99	80 - 120	100	80 - 120	<2.0	ug/L	1.1	20
7498525	Dissolved Beryllium (Be)	2021/08/03	91	80 - 120	97	80 - 120	<0.40	ug/L	NC	20
7498525	Dissolved Boron (B)	2021/08/03	91	80 - 120	97	80 - 120	<10	ug/L	1.4	20
7498525	Dissolved Cadmium (Cd)	2021/08/03	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
7498525	Dissolved Chromium (Cr)	2021/08/03	103	80 - 120	106	80 - 120	<5.0	ug/L	NC	20
7498525	Dissolved Cobalt (Co)	2021/08/03	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7498525	Dissolved Copper (Cu)	2021/08/03	100	80 - 120	101	80 - 120	<0.90	ug/L	6.2	20
7498525	Dissolved Lead (Pb)	2021/08/03	95	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7498525	Dissolved Molybdenum (Mo)	2021/08/03	107	80 - 120	103	80 - 120	<0.50	ug/L	2.8	20
7498525	Dissolved Nickel (Ni)	2021/08/03	95	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
7498525	Dissolved Selenium (Se)	2021/08/03	99	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
7498525	Dissolved Silver (Ag)	2021/08/03	89	80 - 120	95	80 - 120	<0.090	ug/L	NC	20
7498525	Dissolved Sodium (Na)	2021/08/03	NC	80 - 120	99	80 - 120	<100	ug/L	2.0	20
7498525	Dissolved Thallium (Tl)	2021/08/03	94	80 - 120	103	80 - 120	<0.050	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7498525	Dissolved Uranium (U)	2021/08/03	94	80 - 120	103	80 - 120	<0.10	ug/L	8.6	20
7498525	Dissolved Vanadium (V)	2021/08/03	98	80 - 120	98	80 - 120	<0.50	ug/L	10	20
7498525	Dissolved Zinc (Zn)	2021/08/03	98	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
7499048	F2 (C10-C16 Hydrocarbons)	2021/08/04	102	60 - 130	99	60 - 130	<100	ug/L	NC	30
7499048	F3 (C16-C34 Hydrocarbons)	2021/08/04	103	60 - 130	100	60 - 130	<200	ug/L	NC	30
7499048	F4 (C34-C50 Hydrocarbons)	2021/08/04	106	60 - 130	103	60 - 130	<200	ug/L	NC	30
7500058	WAD Cyanide (Free)	2021/08/04	89	80 - 120	93	80 - 120	<1	ug/L	NC	20
7501968	Mercury (Hg)	2021/08/05	95	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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).

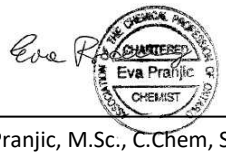
Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

BV Labs Job #: C1L5490
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT324300
Site Location: 8547 GRASSY BROOK RD.
Sampler Initials: JS

VALIDATION SIGNATURE PAGE

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



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

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For Service Group specific validation please refer to the Validation Signature Page.

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BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD 161141 Page 1 of 1

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Terraper Environmental	Company Name: Terraper Environmental	Quotation #: C01024	☑ Regular TAT (5-7 days) Most analyses
Contact Name: Ray Yu Account Payable	Contact Name: Ray Yu	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address: 90 Scarsdale Rd. Toronto, Ont. M3B 2R7	Address: 90 Scarsdale Rd Toronto, ON M3B 2R7	Project #: CT343300	Rush TAT (Surcharges will be applied)
Phone: 416-245-6011 Fax:	Phone: 416-245-6011 ext 224 Fax:	Site Location: 8547 Grassy Brook Rd.	☐ 1 Day ☐ 2 Days ☐ 3-4 Days
Email: accounts.payable@terraper.com	Email: R.Yu@terraper.com	Site #:	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY		Site Location Province: Ontario Sampled By: J.S.	Rush Confirmation #:

Regulation 153	Other Regulations
☐ Table 1 ☒ Res/Park ☐ Med/ Fine	☐ CCME ☐ Sanitary Sewer Bylaw
☒ Table 2 ☐ Ind/Comm ☐ Coarse	☐ MISA ☐ Storm Sewer Bylaw
☐ Table 3 ☐ Agri/ Other	☐ PWQO Region
☐ Table ____	☐ Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	☐ REG 558 (MIN. 3 DAY TAT REQUIRED)
	☐ REG 406 Table

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX / PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	HOLD- DO NOT ANALYZE
1	MW06.	2021/07/29	1:30pm	GW	9	Y	✓	✓		✓			
2													
3													
4													
5													
6													
7													
8													
9													
10													

LABORATORY USE ONLY		
CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
Y	Y	5.5/2
COOLING MEDIA PRESENT: (Y) / N		

COMMENTS: Sediment in samples please analyze as is.

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)
Justin Serraul	2021/07/30	10:30AM	DIPIKA.SINGH	2021/07/30	16:54

30-Jul-21 16:54
Ema Gitej
C1L5490
SYK ENV-1163

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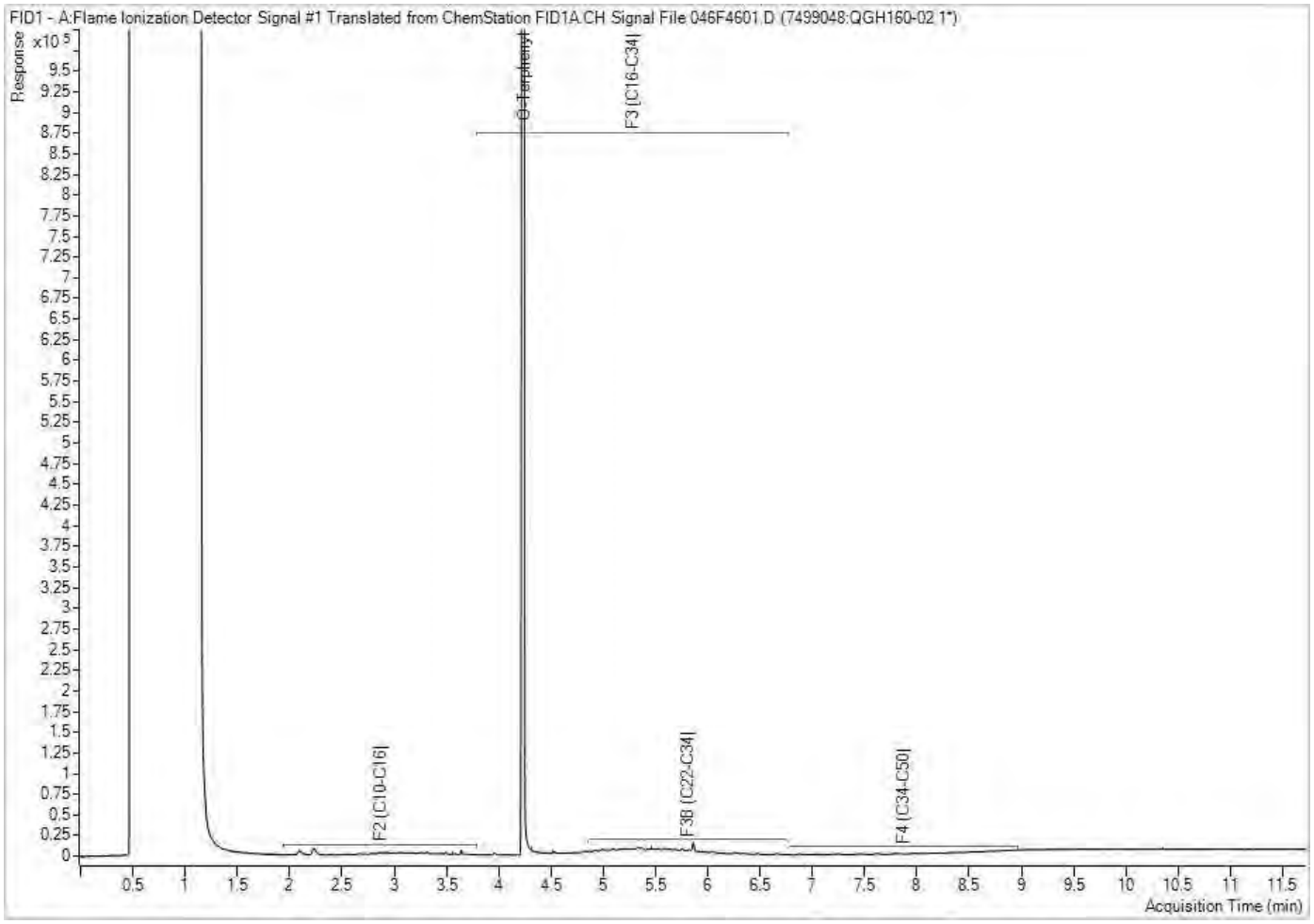
COC-1004 (06/19) White: BV Labs - Yellow: Client

BV Labs Job #: C1L5490
Report Date: 2021/08/06
BV Labs Sample: QGH160

Terrapex Environmental Ltd
Client Project #: CT324300
Project name: 8547 GRASSY BROOK RD.
Client ID: MW06

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Your C.O.C. #: 838762-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/06
Report #: R6753528
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5627
Received: 2021/07/30, 15:34

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	2	N/A	2021/08/04		EPA 8260C m
Chloride by Automated Colourimetry	4	N/A	2021/08/05	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	4	N/A	2021/08/04	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	4	N/A	2021/08/03	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2021/08/04	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2021/08/04	2021/08/05	CAM SOP-00316	CCME PHC-CWS m
Mercury	3	2021/08/03	2021/08/03	CAM SOP-00453	EPA 7470A m
Mercury	1	2021/08/05	2021/08/05	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	3	N/A	2021/08/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	2	N/A	2021/08/04	CAM SOP-00230	EPA 8260C m

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.

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

Your Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Your C.O.C. #: 838762-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/06
Report #: R6753528
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L5627
Received: 2021/07/30, 15:34

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

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ema Gitej, Senior Project Manager
Email: emese.gitej@bureauveritas.com
Phone# (905)817-5829

==========

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BV Labs Job #: C1L5627
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QGH886		QGH887			QGH887		
Sampling Date		2021/07/28 12:15		2021/07/28 12:45			2021/07/28 12:45		
COC Number		838762-01-01		838762-01-01			838762-01-01		
	UNITS	MW12	QC Batch	MW13	RDL	QC Batch	MW13 Lab-Dup	RDL	QC Batch
Inorganics									
WAD Cyanide (Free)	ug/L	2	7497270	<1	1	7497270			
Dissolved Chloride (Cl-)	mg/L	1.9	7495896	130	1.0	7495896			
Metals									
Chromium (VI)	ug/L	<0.50	7498335	<0.50	0.50	7498335			
Mercury (Hg)	ug/L	<0.10	7497057	<0.10	0.10	7501968	<0.10	0.10	7501968
Dissolved Antimony (Sb)	ug/L	<0.50	7497355	<0.50	0.50	7497355			
Dissolved Arsenic (As)	ug/L	<1.0	7497355	<1.0	1.0	7497355			
Dissolved Barium (Ba)	ug/L	17	7497355	15	2.0	7497355			
Dissolved Beryllium (Be)	ug/L	<0.40	7497355	<0.40	0.40	7497355			
Dissolved Boron (B)	ug/L	28	7497355	270	10	7497355			
Dissolved Cadmium (Cd)	ug/L	<0.090	7497355	<0.090	0.090	7497355			
Dissolved Chromium (Cr)	ug/L	<5.0	7497355	<5.0	5.0	7497355			
Dissolved Cobalt (Co)	ug/L	<0.50	7497355	1.8	0.50	7497355			
Dissolved Copper (Cu)	ug/L	7.4	7497355	3.2	0.90	7497355			
Dissolved Lead (Pb)	ug/L	<0.50	7497355	<0.50	0.50	7497355			
Dissolved Molybdenum (Mo)	ug/L	2.2	7497355	2.5	0.50	7497355			
Dissolved Nickel (Ni)	ug/L	3.3	7497355	2.4	1.0	7497355			
Dissolved Selenium (Se)	ug/L	<2.0	7497355	<2.0	2.0	7497355			
Dissolved Silver (Ag)	ug/L	<0.090	7497355	<0.090	0.090	7497355			
Dissolved Sodium (Na)	ug/L	2300	7497355	260000	100	7497355			
Dissolved Thallium (Tl)	ug/L	<0.050	7497355	<0.050	0.050	7497355			
Dissolved Uranium (U)	ug/L	0.38	7497355	26	0.10	7497355			
Dissolved Vanadium (V)	ug/L	0.97	7497355	1.0	0.50	7497355			
Dissolved Zinc (Zn)	ug/L	<5.0	7497355	<5.0	5.0	7497355			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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BV Labs Job #: C1L5627
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QGH888		QGH889			QGH889		
Sampling Date		2021/07/28 14:15		2021/07/28 15:15			2021/07/28 15:15		
COC Number		838762-01-01		838762-01-01			838762-01-01		
	UNITS	MW02	QC Batch	MW03	RDL	QC Batch	MW03 Lab-Dup	RDL	QC Batch
Inorganics									
WAD Cyanide (Free)	ug/L	1	7497270	<1	1	7497270			
Dissolved Chloride (Cl-)	mg/L	7.3	7495896	36	1.0	7495896			
Metals									
Chromium (VI)	ug/L	<0.50	7498335	<0.50	0.50	7498335			
Mercury (Hg)	ug/L	<0.10	7497057	<0.10	0.10	7497057			
Dissolved Antimony (Sb)	ug/L	<0.50	7497355	<0.50	0.50	7497393	<0.50	0.50	7497393
Dissolved Arsenic (As)	ug/L	<1.0	7497355	4.4	1.0	7497393	4.4	1.0	7497393
Dissolved Barium (Ba)	ug/L	52	7497355	30	2.0	7497393	29	2.0	7497393
Dissolved Beryllium (Be)	ug/L	<0.40	7497355	<0.40	0.40	7497393	<0.40	0.40	7497393
Dissolved Boron (B)	ug/L	41	7497355	140	10	7497393	140	10	7497393
Dissolved Cadmium (Cd)	ug/L	<0.090	7497355	<0.090	0.090	7497393	<0.090	0.090	7497393
Dissolved Chromium (Cr)	ug/L	<5.0	7497355	<5.0	5.0	7497393	<5.0	5.0	7497393
Dissolved Cobalt (Co)	ug/L	<0.50	7497355	0.96	0.50	7497393	1.0	0.50	7497393
Dissolved Copper (Cu)	ug/L	2.8	7497355	1.1	0.90	7497393	1.1	0.90	7497393
Dissolved Lead (Pb)	ug/L	<0.50	7497355	<0.50	0.50	7497393	<0.50	0.50	7497393
Dissolved Molybdenum (Mo)	ug/L	0.53	7497355	4.6	0.50	7497393	4.5	0.50	7497393
Dissolved Nickel (Ni)	ug/L	2.5	7497355	2.6	1.0	7497393	2.7	1.0	7497393
Dissolved Selenium (Se)	ug/L	<2.0	7497355	<2.0	2.0	7497393	<2.0	2.0	7497393
Dissolved Silver (Ag)	ug/L	<0.090	7497355	<0.090	0.090	7497393	<0.090	0.090	7497393
Dissolved Sodium (Na)	ug/L	7000	7497355	96000	100	7497393	95000	100	7497393
Dissolved Thallium (Tl)	ug/L	<0.050	7497355	<0.050	0.050	7497393	<0.050	0.050	7497393
Dissolved Uranium (U)	ug/L	0.68	7497355	5.3	0.10	7497393	5.3	0.10	7497393
Dissolved Vanadium (V)	ug/L	<0.50	7497355	0.52	0.50	7497393	<0.50	0.50	7497393
Dissolved Zinc (Zn)	ug/L	<5.0	7497355	<5.0	5.0	7497393	<5.0	5.0	7497393

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

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

BV Labs ID		QGH888	QGH889		
Sampling Date		2021/07/28 14:15	2021/07/28 15:15		
COC Number		838762-01-01	838762-01-01		
	UNITS	MW02	MW03	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20	<0.20	0.20	7497066
Toluene	ug/L	<0.20	0.22	0.20	7497066
Ethylbenzene	ug/L	<0.20	<0.20	0.20	7497066
o-Xylene	ug/L	<0.20	<0.20	0.20	7497066
p+m-Xylene	ug/L	<0.40	<0.40	0.40	7497066
Total Xylenes	ug/L	<0.40	<0.40	0.40	7497066
F1 (C6-C10)	ug/L	<25	<25	25	7497066
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	7497066
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	7499069
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	7499069
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	7499069
Reached Baseline at C50	ug/L	Yes	Yes		7499069
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	102		7497066
4-Bromofluorobenzene	%	92	82		7497066
D10-o-Xylene	%	101	100		7497066
D4-1,2-Dichloroethane	%	104	106		7497066
o-Terphenyl	%	108	106		7499069

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		QGH886	QGH887		
Sampling Date		2021/07/28 12:15	2021/07/28 12:45		
COC Number		838762-01-01	838762-01-01		
	UNITS	MW12	MW13	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	7494925
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	7496128
Benzene	ug/L	<0.20	<0.20	0.20	7496128
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	7496128
Bromoform	ug/L	<1.0	<1.0	1.0	7496128
Bromomethane	ug/L	<0.50	<0.50	0.50	7496128
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	7496128
Chlorobenzene	ug/L	<0.20	<0.20	0.20	7496128
Chloroform	ug/L	<0.20	<0.20	0.20	7496128
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	7496128
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7496128
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7496128
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7496128
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	7496128
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	7496128
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	7496128
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	7496128
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7496128
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7496128
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	7496128
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	7496128
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	7496128
Ethylbenzene	ug/L	<0.20	<0.20	0.20	7496128
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	7496128
Hexane	ug/L	<1.0	<1.0	1.0	7496128
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	7496128
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	7496128
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	7496128
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	7496128
Styrene	ug/L	<0.50	<0.50	0.50	7496128
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7496128
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7496128

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		QGH886	QGH887		
Sampling Date		2021/07/28 12:15	2021/07/28 12:45		
COC Number		838762-01-01	838762-01-01		
	UNITS	MW12	MW13	RDL	QC Batch
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	7496128
Toluene	ug/L	<0.20	<0.20	0.20	7496128
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	7496128
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	7496128
Trichloroethylene	ug/L	<0.20	<0.20	0.20	7496128
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	7496128
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	7496128
p+m-Xylene	ug/L	<0.20	<0.20	0.20	7496128
o-Xylene	ug/L	<0.20	<0.20	0.20	7496128
Total Xylenes	ug/L	<0.20	<0.20	0.20	7496128
F1 (C6-C10)	ug/L	<25	<25	25	7496128
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	7496128
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	7499069
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	7499069
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	7499069
Reached Baseline at C50	ug/L	Yes	Yes		7499069
Surrogate Recovery (%)					
o-Terphenyl	%	105	105		7499069
4-Bromofluorobenzene	%	100	100		7496128
D4-1,2-Dichloroethane	%	102	102		7496128
D8-Toluene	%	99	100		7496128

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1L5627
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

TEST SUMMARY

BV Labs ID: QGH886
Sample ID: MW12
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7494925	N/A	2021/08/04	Automated Statchk
Chloride by Automated Colourimetry	KONE	7495896	N/A	2021/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	7498335	N/A	2021/08/04	Lang Le
Free (WAD) Cyanide	SKAL/CN	7497270	N/A	2021/08/03	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7499069	2021/08/04	2021/08/05	Jeevaraj Jeevaratrnam
Mercury	CV/AA	7497057	2021/08/03	2021/08/03	Medhat Nasr
Dissolved Metals by ICPMS	ICP/MS	7497355	N/A	2021/08/04	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7496128	N/A	2021/08/04	Blair Gannon

BV Labs ID: QGH887
Sample ID: MW13
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7494925	N/A	2021/08/04	Automated Statchk
Chloride by Automated Colourimetry	KONE	7495896	N/A	2021/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	7498335	N/A	2021/08/04	Lang Le
Free (WAD) Cyanide	SKAL/CN	7497270	N/A	2021/08/03	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7499069	2021/08/04	2021/08/05	Jeevaraj Jeevaratrnam
Mercury	CV/AA	7501968	2021/08/05	2021/08/05	Medhat Nasr
Dissolved Metals by ICPMS	ICP/MS	7497355	N/A	2021/08/04	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7496128	N/A	2021/08/04	Blair Gannon

BV Labs ID: QGH887 Dup
Sample ID: MW13
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury	CV/AA	7501968	2021/08/05	2021/08/05	Medhat Nasr

BV Labs ID: QGH888
Sample ID: MW02
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7495896	N/A	2021/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	7498335	N/A	2021/08/04	Lang Le
Free (WAD) Cyanide	SKAL/CN	7497270	N/A	2021/08/03	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7497066	N/A	2021/08/04	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7499069	2021/08/04	2021/08/05	Jeevaraj Jeevaratrnam
Mercury	CV/AA	7497057	2021/08/03	2021/08/03	Medhat Nasr
Dissolved Metals by ICPMS	ICP/MS	7497355	N/A	2021/08/04	Azita Fazaeli

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BV Labs Job #: C1L5627
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

TEST SUMMARY

BV Labs ID: QGH889
Sample ID: MW03
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7495896	N/A	2021/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	7498335	N/A	2021/08/04	Lang Le
Free (WAD) Cyanide	SKAL/CN	7497270	N/A	2021/08/03	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7497066	N/A	2021/08/04	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7499069	2021/08/04	2021/08/05	Jeevaraj Jeevaratrnam
Mercury	CV/AA	7497057	2021/08/03	2021/08/03	Medhat Nasr
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu

BV Labs ID: QGH889 Dup
Sample ID: MW03
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7497393	N/A	2021/08/05	Daniel Teclu

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GENERAL COMMENTS

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

Package 1	5.7°C

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7496128	4-Bromofluorobenzene	2021/08/03	105	70 - 130	103	70 - 130	100	%		
7496128	D4-1,2-Dichloroethane	2021/08/03	100	70 - 130	101	70 - 130	96	%		
7496128	D8-Toluene	2021/08/03	99	70 - 130	99	70 - 130	102	%		
7497066	1,4-Difluorobenzene	2021/08/03	90	70 - 130	97	70 - 130	102	%		
7497066	4-Bromofluorobenzene	2021/08/03	118	70 - 130	109	70 - 130	85	%		
7497066	D10-o-Xylene	2021/08/03	92	70 - 130	97	70 - 130	109	%		
7497066	D4-1,2-Dichloroethane	2021/08/03	97	70 - 130	101	70 - 130	104	%		
7499069	o-Terphenyl	2021/08/04	106	60 - 130	105	60 - 130	106	%		
7495896	Dissolved Chloride (Cl-)	2021/08/05	111	80 - 120	105	80 - 120	<1.0	mg/L	0.090	20
7496128	1,1,1,2-Tetrachloroethane	2021/08/03	94	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
7496128	1,1,1-Trichloroethane	2021/08/03	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7496128	1,1,2,2-Tetrachloroethane	2021/08/03	87	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
7496128	1,1,2-Trichloroethane	2021/08/03	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
7496128	1,1-Dichloroethane	2021/08/03	87	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
7496128	1,1-Dichloroethylene	2021/08/03	88	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7496128	1,2-Dichlorobenzene	2021/08/03	91	70 - 130	89	70 - 130	<0.50	ug/L	NC	30
7496128	1,2-Dichloroethane	2021/08/03	90	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
7496128	1,2-Dichloropropane	2021/08/03	90	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7496128	1,3-Dichlorobenzene	2021/08/03	94	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7496128	1,4-Dichlorobenzene	2021/08/03	117	70 - 130	114	70 - 130	<0.50	ug/L	NC	30
7496128	Acetone (2-Propanone)	2021/08/03	91	60 - 140	92	60 - 140	<10	ug/L	NC	30
7496128	Benzene	2021/08/03	84	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
7496128	Bromodichloromethane	2021/08/03	92	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
7496128	Bromoform	2021/08/03	94	70 - 130	93	70 - 130	<1.0	ug/L	NC	30
7496128	Bromomethane	2021/08/03	83	60 - 140	84	60 - 140	<0.50	ug/L	NC	30
7496128	Carbon Tetrachloride	2021/08/03	91	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7496128	Chlorobenzene	2021/08/03	90	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7496128	Chloroform	2021/08/03	89	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7496128	cis-1,2-Dichloroethylene	2021/08/03	94	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7496128	cis-1,3-Dichloropropene	2021/08/03	89	70 - 130	90	70 - 130	<0.30	ug/L	NC	30
7496128	Dibromochloromethane	2021/08/03	91	70 - 130	90	70 - 130	<0.50	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7496128	Dichlorodifluoromethane (FREON 12)	2021/08/03	77	60 - 140	78	60 - 140	<1.0	ug/L	NC	30
7496128	Ethylbenzene	2021/08/03	84	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
7496128	Ethylene Dibromide	2021/08/03	92	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7496128	F1 (C6-C10) - BTEX	2021/08/03					<25	ug/L	NC	30
7496128	F1 (C6-C10)	2021/08/03	96	60 - 140	94	60 - 140	<25	ug/L	NC	30
7496128	Hexane	2021/08/03	88	70 - 130	89	70 - 130	<1.0	ug/L	NC	30
7496128	Methyl Ethyl Ketone (2-Butanone)	2021/08/03	96	60 - 140	97	60 - 140	<10	ug/L	NC	30
7496128	Methyl Isobutyl Ketone	2021/08/03	94	70 - 130	96	70 - 130	<5.0	ug/L	NC	30
7496128	Methyl t-butyl ether (MTBE)	2021/08/03	88	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
7496128	Methylene Chloride(Dichloromethane)	2021/08/03	97	70 - 130	98	70 - 130	<2.0	ug/L	NC	30
7496128	o-Xylene	2021/08/03	82	70 - 130	81	70 - 130	<0.20	ug/L	NC	30
7496128	p+m-Xylene	2021/08/03	86	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
7496128	Styrene	2021/08/03	95	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7496128	Tetrachloroethylene	2021/08/03	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
7496128	Toluene	2021/08/03	82	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
7496128	Total Xylenes	2021/08/03					<0.20	ug/L	NC	30
7496128	trans-1,2-Dichloroethylene	2021/08/03	89	70 - 130	89	70 - 130	<0.50	ug/L	NC	30
7496128	trans-1,3-Dichloropropene	2021/08/03	90	70 - 130	89	70 - 130	<0.40	ug/L	NC	30
7496128	Trichloroethylene	2021/08/03	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7496128	Trichlorofluoromethane (FREON 11)	2021/08/03	88	70 - 130	89	70 - 130	<0.50	ug/L	NC	30
7496128	Vinyl Chloride	2021/08/03	80	70 - 130	81	70 - 130	<0.20	ug/L	NC	30
7497057	Mercury (Hg)	2021/08/03	96	75 - 125	100	80 - 120	<0.10	ug/L	NC	20
7497066	Benzene	2021/08/03	97	50 - 140	105	50 - 140	<0.20	ug/L		
7497066	Ethylbenzene	2021/08/03	105	50 - 140	110	50 - 140	<0.20	ug/L		
7497066	F1 (C6-C10) - BTEX	2021/08/03					<25	ug/L	NC	30
7497066	F1 (C6-C10)	2021/08/03	93	60 - 140	93	60 - 140	<25	ug/L	NC	30
7497066	o-Xylene	2021/08/03	103	50 - 140	108	50 - 140	<0.20	ug/L		
7497066	p+m-Xylene	2021/08/03	98	50 - 140	103	50 - 140	<0.40	ug/L		
7497066	Toluene	2021/08/03	92	50 - 140	99	50 - 140	<0.20	ug/L		
7497066	Total Xylenes	2021/08/03					<0.40	ug/L		
7497270	WAD Cyanide (Free)	2021/08/03	93	80 - 120	97	80 - 120	<1	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7497355	Dissolved Antimony (Sb)	2021/08/04	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7497355	Dissolved Arsenic (As)	2021/08/04	95	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7497355	Dissolved Barium (Ba)	2021/08/04	93	80 - 120	96	80 - 120	<2.0	ug/L	1.2	20
7497355	Dissolved Beryllium (Be)	2021/08/04	93	80 - 120	96	80 - 120	<0.40	ug/L	NC	20
7497355	Dissolved Boron (B)	2021/08/04	91	80 - 120	94	80 - 120	<10	ug/L	0.68	20
7497355	Dissolved Cadmium (Cd)	2021/08/04	96	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
7497355	Dissolved Chromium (Cr)	2021/08/04	95	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7497355	Dissolved Cobalt (Co)	2021/08/04	93	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
7497355	Dissolved Copper (Cu)	2021/08/04	94	80 - 120	96	80 - 120	<0.90	ug/L	NC	20
7497355	Dissolved Lead (Pb)	2021/08/04	93	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7497355	Dissolved Molybdenum (Mo)	2021/08/04	100	80 - 120	99	80 - 120	<0.50	ug/L	0.050	20
7497355	Dissolved Nickel (Ni)	2021/08/04	92	80 - 120	96	80 - 120	<1.0	ug/L	NC	20
7497355	Dissolved Selenium (Se)	2021/08/04	99	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
7497355	Dissolved Silver (Ag)	2021/08/04	81	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
7497355	Dissolved Sodium (Na)	2021/08/04	NC	80 - 120	95	80 - 120	<100	ug/L		
7497355	Dissolved Thallium (Tl)	2021/08/04	92	80 - 120	95	80 - 120	<0.050	ug/L	NC	20
7497355	Dissolved Uranium (U)	2021/08/04	100	80 - 120	99	80 - 120	<0.10	ug/L	1.3	20
7497355	Dissolved Vanadium (V)	2021/08/04	97	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
7497355	Dissolved Zinc (Zn)	2021/08/04	92	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7497393	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7497393	Dissolved Arsenic (As)	2021/08/05	99	80 - 120	98	80 - 120	<1.0	ug/L	0.39	20
7497393	Dissolved Barium (Ba)	2021/08/05	97	80 - 120	99	80 - 120	<2.0	ug/L	3.3	20
7497393	Dissolved Beryllium (Be)	2021/08/05	94	80 - 120	101	80 - 120	<0.40	ug/L	NC	20
7497393	Dissolved Boron (B)	2021/08/05	88	80 - 120	98	80 - 120	<10	ug/L	2.0	20
7497393	Dissolved Cadmium (Cd)	2021/08/05	98	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
7497393	Dissolved Chromium (Cr)	2021/08/05	96	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7497393	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	99	80 - 120	<0.50	ug/L	3.9	20
7497393	Dissolved Copper (Cu)	2021/08/05	101	80 - 120	102	80 - 120	<0.90	ug/L	0.73	20
7497393	Dissolved Lead (Pb)	2021/08/05	97	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7497393	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	100	80 - 120	<0.50	ug/L	2.0	20
7497393	Dissolved Nickel (Ni)	2021/08/05	95	80 - 120	96	80 - 120	<1.0	ug/L	4.5	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7497393	Dissolved Selenium (Se)	2021/08/05	99	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
7497393	Dissolved Silver (Ag)	2021/08/05	90	80 - 120	95	80 - 120	<0.090	ug/L	NC	20
7497393	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.1	20
7497393	Dissolved Thallium (Tl)	2021/08/05	96	80 - 120	94	80 - 120	<0.050	ug/L	NC	20
7497393	Dissolved Uranium (U)	2021/08/05	97	80 - 120	94	80 - 120	<0.10	ug/L	0	20
7497393	Dissolved Vanadium (V)	2021/08/05	97	80 - 120	94	80 - 120	<0.50	ug/L	4.7	20
7497393	Dissolved Zinc (Zn)	2021/08/05	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7498335	Chromium (VI)	2021/08/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7499069	F2 (C10-C16 Hydrocarbons)	2021/08/04	104	60 - 130	99	60 - 130	<100	ug/L	NC	30
7499069	F3 (C16-C34 Hydrocarbons)	2021/08/04	103	60 - 130	102	60 - 130	<200	ug/L	NC	30
7499069	F4 (C34-C50 Hydrocarbons)	2021/08/04	105	60 - 130	103	60 - 130	<200	ug/L	NC	30
7501968	Mercury (Hg)	2021/08/05	95	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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).

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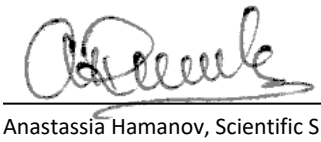
BV Labs Job #: C1L5627
Report Date: 2021/08/06

Terrapex Environmental Ltd
Client Project #: CT3243.00
Site Location: 8547 GRASSY BROOK RD, PORT ROBINSON
Sampler Initials: AMD

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Signature Page.

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

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex Environmental Ltd.	Quotation #:	C01024	BV Labs Job #:	Bottle Order #: 838762
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:	90 Scarsdale Rd. Toronto, ON M3B 2R7	Project:	CT3243.00	COC #: C#838762-01-01	Project Manager: Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:			
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:	8547 Gregory Brook Rd., Port Robinson		
				Sampled By:	AMD		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [X] Res/Park [ ] Medium/Fine
- [X] Table 2 [ ] Ind/Comm [X] Coarse
- [ ] Table 3 [ ] Agri/Other [X] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	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 Pkg (Wtr)	O Reg 153 VOCs by HS (Water)	# of Bottles	Comments
1		MW12	28-July-21	12:15pm	GW	Y	X	X	X	12	trace sediment, please analyze as is
2		MW13	28-July-21	12:45pm	GW	Y	X	X	X	12	
3		MW02	28-July-21	2:15pm	GW	Y	X	X		9	trace sediment, please analyze as is
4		MW03	28-July-21	3:15pm	GW	Y	X	X		9	trace sediment, please analyze as is
5											
6											
7											
8											
9											
10											

30-Jul-21 15:34
Ema Gitej
C1L5627

* 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: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Andrew Durbano Andrew Durbano	21/07/30	10:00am			15:34			6|5|6	Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

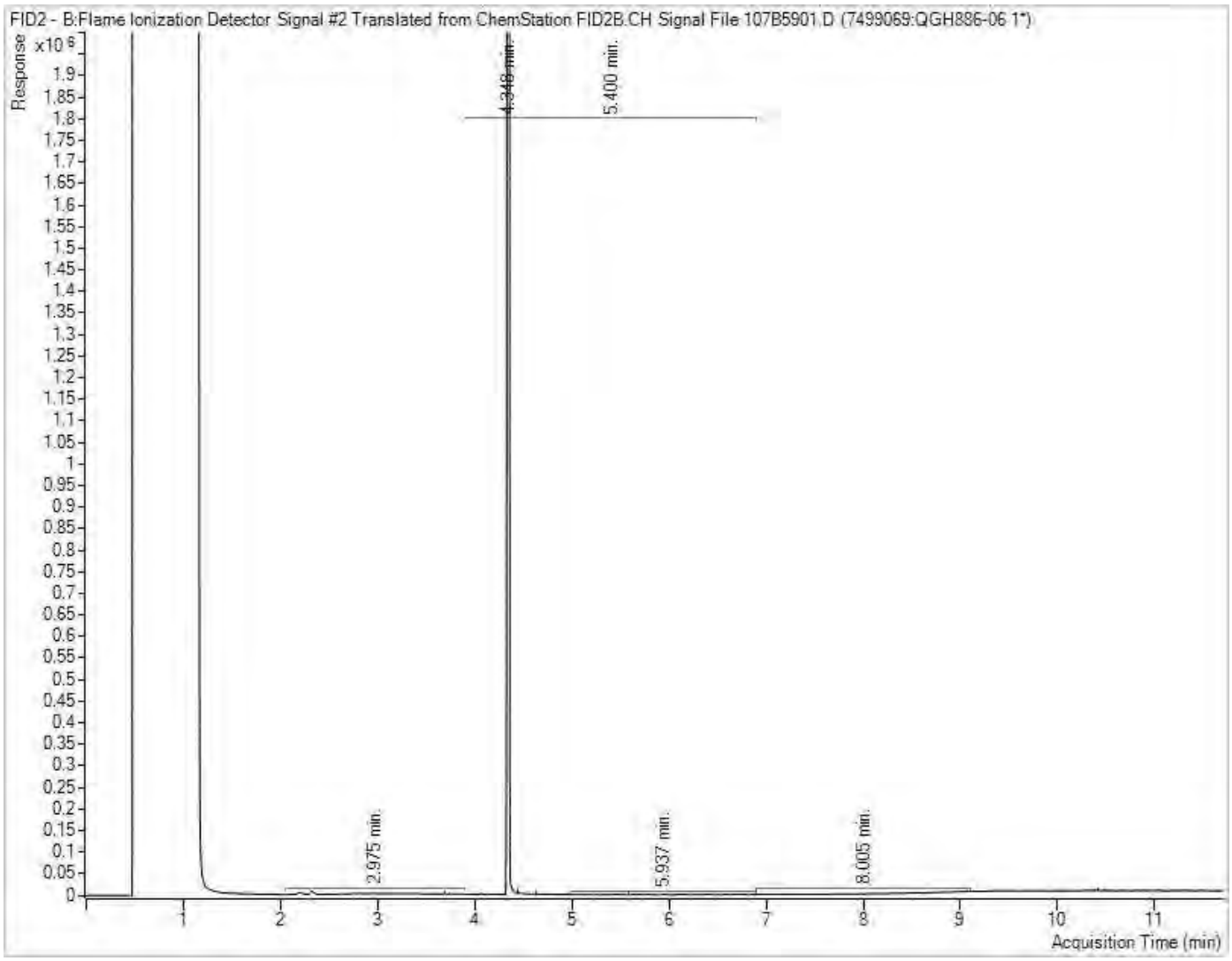
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1L5627
Report Date: 2021/08/06
BV Labs Sample: QGH886

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD, PORT ROBINSON
Client ID: MW12

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

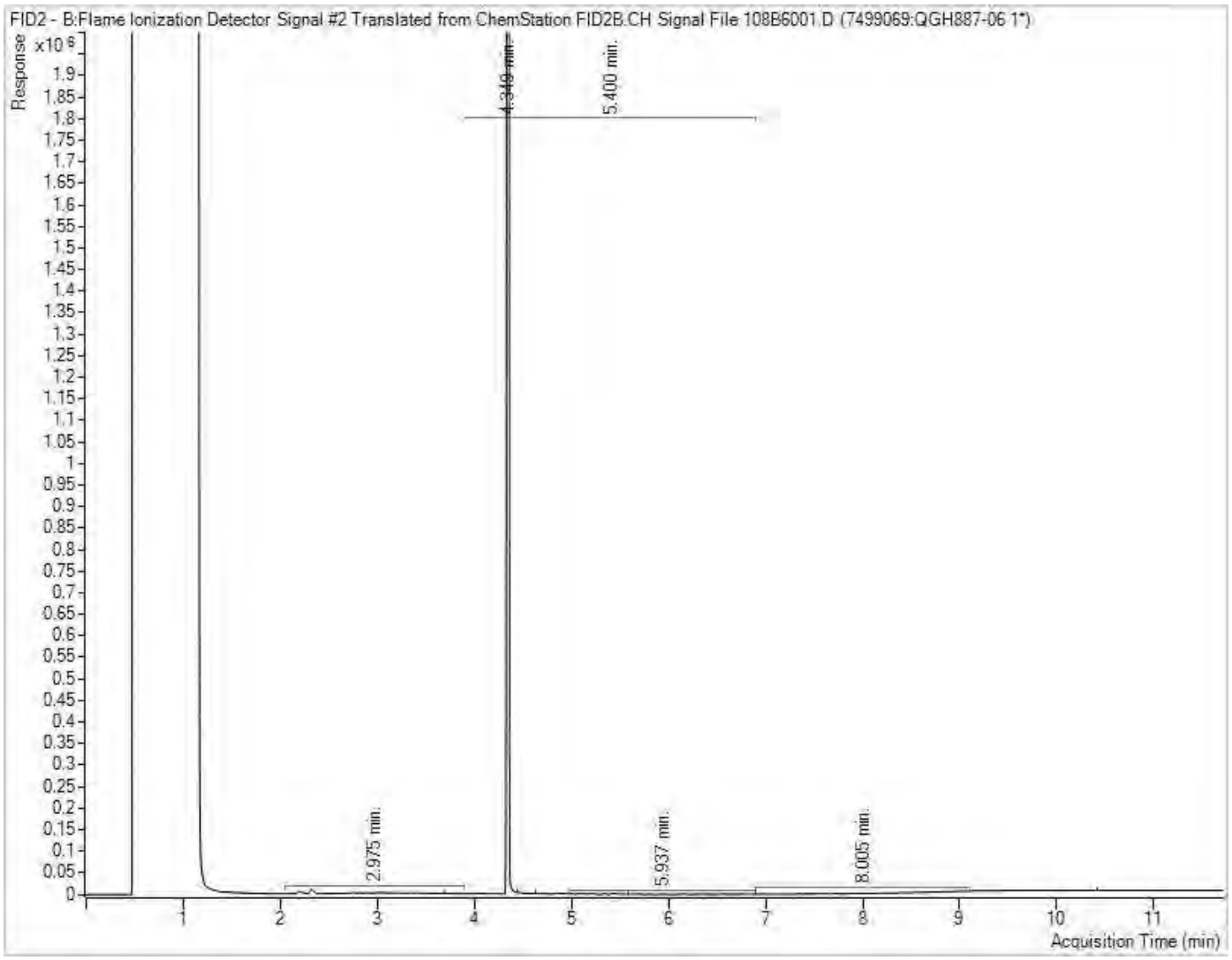


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1L5627
Report Date: 2021/08/06
BV Labs Sample: QGH887

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD, PORT ROBINSON
Client ID: MW13

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

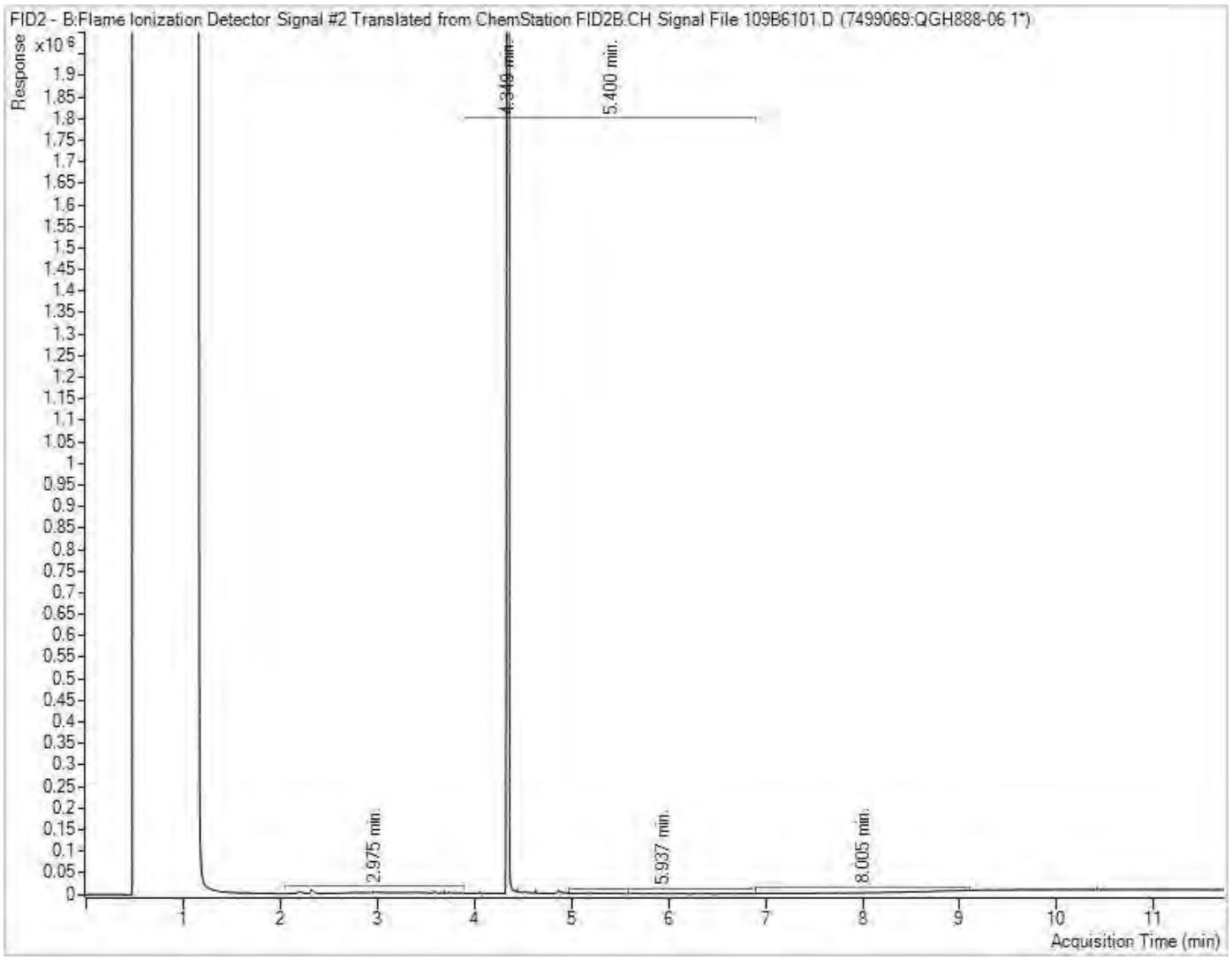


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1L5627
Report Date: 2021/08/06
BV Labs Sample: QGH888

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD, PORT ROBINSON
Client ID: MW02

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

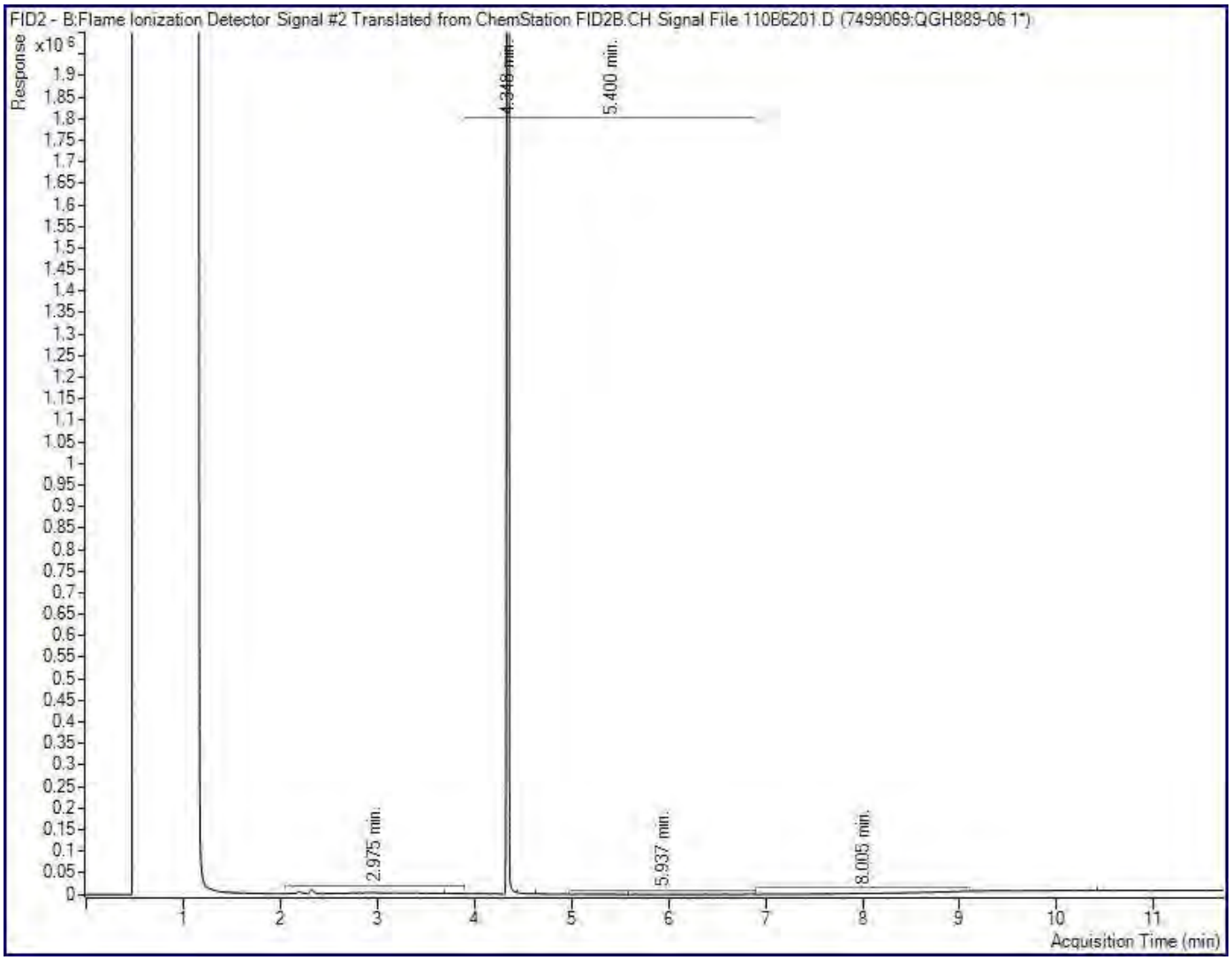


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1L5627
Report Date: 2021/08/06
BV Labs Sample: QGH889

Terrapex Environmental Ltd
Client Project #: CT3243.00
Project name: 8547 GRASSY BROOK RD, PORT ROBINSON
Client ID: MW03

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.00
Your C.O.C. #: 841896-02-01, 841896-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/26
Report #: R6783714
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N8509
Received: 2021/08/20, 17:17

Sample Matrix: Water
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	3	N/A	2021/08/26		EPA 8260C m
Chloride by Automated Colourimetry	11	N/A	2021/08/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	11	N/A	2021/08/25	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	11	N/A	2021/08/26	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	8	N/A	2021/08/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	11	2021/08/25	2021/08/26	CAM SOP-00316	CCME PHC-CWS m
Mercury	11	2021/08/26	2021/08/26	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	11	N/A	2021/08/26	CAM SOP-00447	EPA 6020B m
OC Pesticides (Selected) & PCB (2)	3	2021/08/25	2021/08/26	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	3	N/A	2021/08/26	CAM SOP-00307	EPA 8081A/8082B m
Volatile Organic Compounds and F1 PHCs	4	N/A	2021/08/26	CAM SOP-00230	EPA 8260C m

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.

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

Your Project #: CT3243.00
Your C.O.C. #: 841896-02-01, 841896-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2021/08/26
Report #: R6783714
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N8509
Received: 2021/08/20, 17:17

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

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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.
(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ema Gitej, Senior Project Manager
Email: emese.gitej@bureauveritas.com
Phone# (905)817-5829
==========
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VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QLC913		
Sampling Date		2021/08/19		
COC Number		841896-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7537661
Benzene	ug/L	<0.17	0.17	7537661
Bromodichloromethane	ug/L	<0.50	0.50	7537661
Bromoform	ug/L	<1.0	1.0	7537661
Bromomethane	ug/L	<0.50	0.50	7537661
Carbon Tetrachloride	ug/L	<0.20	0.20	7537661
Chlorobenzene	ug/L	<0.20	0.20	7537661
Chloroform	ug/L	<0.20	0.20	7537661
Dibromochloromethane	ug/L	<0.50	0.50	7537661
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7537661
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7537661
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7537661
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7537661
1,1-Dichloroethane	ug/L	<0.20	0.20	7537661
1,2-Dichloroethane	ug/L	<0.50	0.50	7537661
1,1-Dichloroethylene	ug/L	<0.20	0.20	7537661
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7537661
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7537661
1,2-Dichloropropane	ug/L	<0.20	0.20	7537661
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7537661
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7537661
Ethylbenzene	ug/L	<0.20	0.20	7537661
Ethylene Dibromide	ug/L	<0.20	0.20	7537661
Hexane	ug/L	<1.0	1.0	7537661
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7537661
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7537661
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7537661
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7537661
Styrene	ug/L	<0.50	0.50	7537661
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7537661
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7537661
Tetrachloroethylene	ug/L	<0.20	0.20	7537661
Toluene	ug/L	<0.20	0.20	7537661
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7537661
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7537661
Trichloroethylene	ug/L	<0.20	0.20	7537661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		QLC913		
Sampling Date		2021/08/19		
COC Number		841896-01-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7537661
Vinyl Chloride	ug/L	<0.20	0.20	7537661
p+m-Xylene	ug/L	<0.20	0.20	7537661
o-Xylene	ug/L	<0.20	0.20	7537661
Total Xylenes	ug/L	<0.20	0.20	7537661
F1 (C6-C10)	ug/L	<25	25	7537661
F1 (C6-C10) - BTEX	ug/L	<25	25	7537661
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	87		7537661
D4-1,2-Dichloroethane	%	117		7537661
D8-Toluene	%	90		7537661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QLC902			QLC902			QLC903	QLC904		
Sampling Date		2021/08/19 15:00			2021/08/19 15:00			2021/08/19 12:40	2021/08/19 16:30		
COC Number		841896-02-01			841896-02-01			841896-02-01	841896-02-01		
	UNITS	MW02	RDL	QC Batch	MW02 Lab-Dup	RDL	QC Batch	MW03	MW06	RDL	QC Batch
Inorganics											
WAD Cyanide (Free)	ug/L	<1	1	7542751	<1	1	7542751	<1	<1	1	7542751
Dissolved Chloride (Cl-)	mg/L	1300	20	7542568	1300	20	7542568	40	29	1.0	7542568
Metals											
Chromium (VI)	ug/L	<0.50	0.50	7541858				<0.50	<0.50	0.50	7541858
Mercury (Hg)	ug/L	<0.10	0.10	7542703				<0.10	<0.10	0.10	7542703
Dissolved Antimony (Sb)	ug/L	0.51	0.50	7542549				0.62	<0.50	0.50	7542549
Dissolved Arsenic (As)	ug/L	2.2	1.0	7542549				<1.0	<1.0	1.0	7542549
Dissolved Barium (Ba)	ug/L	18	2.0	7542549				29	30	2.0	7542549
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7542549				<0.40	<0.40	0.40	7542549
Dissolved Boron (B)	ug/L	430	10	7542549				180	36	10	7542549
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7542549				<0.090	<0.090	0.090	7542549
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7542549				<5.0	<5.0	5.0	7542549
Dissolved Cobalt (Co)	ug/L	2.1	0.50	7542549				<0.50	<0.50	0.50	7542549
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7542549				2.9	2.2	0.90	7542549
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7542549				<0.50	<0.50	0.50	7542549
Dissolved Molybdenum (Mo)	ug/L	4.0	0.50	7542549				12	1.7	0.50	7542549
Dissolved Nickel (Ni)	ug/L	6.8	1.0	7542549				1.6	2.5	1.0	7542549
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7542549				<2.0	<2.0	2.0	7542549
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7542549				<0.090	<0.090	0.090	7542549
Dissolved Sodium (Na)	ug/L	700000	500	7542549				120000	61000	100	7542549
Dissolved Thallium (Tl)	ug/L	0.16	0.050	7542549				<0.050	<0.050	0.050	7542549
Dissolved Uranium (U)	ug/L	33	0.10	7542549				12	6.7	0.10	7542549
Dissolved Vanadium (V)	ug/L	9.4	0.50	7542549				6.9	0.59	0.50	7542549
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7542549				<5.0	<5.0	5.0	7542549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QLC904			QLC905	QLC906	QLC907	QLC908		
Sampling Date		2021/08/19 16:30			2021/08/19 14:01	2021/08/19 14:01	2021/08/19 15:45	2021/08/19 15:35		
COC Number		841896-02-01			841896-02-01	841896-02-01	841896-02-01	841896-02-01		
	UNITS	MW06 Lab-Dup	RDL	QC Batch	MW12	MW1000	MW13	MW106	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L				<1	<1	<1	<1	1	7542751
Dissolved Chloride (Cl-)	mg/L				25	24	130	110	1.0	7542568
Metals										
Chromium (VI)	ug/L	<0.50	0.50	7541858	<0.50	<0.50	<0.50	<0.50	0.50	7541858
Mercury (Hg)	ug/L				<0.10	<0.10	<0.10	<0.10	0.10	7542703
Dissolved Antimony (Sb)	ug/L				<0.50	<0.50	<0.50	<0.50	0.50	7542549
Dissolved Arsenic (As)	ug/L				<1.0	<1.0	<1.0	<1.0	1.0	7542549
Dissolved Barium (Ba)	ug/L				46	46	22	34	2.0	7542549
Dissolved Beryllium (Be)	ug/L				<0.40	<0.40	<0.40	<0.40	0.40	7542549
Dissolved Boron (B)	ug/L				85	83	290	69	10	7542549
Dissolved Cadmium (Cd)	ug/L				<0.090	<0.090	<0.090	<0.090	0.090	7542549
Dissolved Chromium (Cr)	ug/L				<5.0	<5.0	<5.0	<5.0	5.0	7542549
Dissolved Cobalt (Co)	ug/L				<0.50	<0.50	0.81	0.99	0.50	7542549
Dissolved Copper (Cu)	ug/L				5.6	5.9	1.2	<0.90	0.90	7542549
Dissolved Lead (Pb)	ug/L				<0.50	<0.50	<0.50	<0.50	0.50	7542549
Dissolved Molybdenum (Mo)	ug/L				3.0	2.9	2.3	2.0	0.50	7542549
Dissolved Nickel (Ni)	ug/L				2.4	2.7	5.2	1.6	1.0	7542549
Dissolved Selenium (Se)	ug/L				<2.0	<2.0	<2.0	<2.0	2.0	7542549
Dissolved Silver (Ag)	ug/L				<0.090	<0.090	<0.090	<0.090	0.090	7542549
Dissolved Sodium (Na)	ug/L				54000	54000	280000	240000	100	7542549
Dissolved Thallium (Tl)	ug/L				<0.050	<0.050	<0.050	<0.050	0.050	7542549
Dissolved Uranium (U)	ug/L				9.0	9.0	30	41	0.10	7542549
Dissolved Vanadium (V)	ug/L				0.65	0.63	2.2	<0.50	0.50	7542549
Dissolved Zinc (Zn)	ug/L				<5.0	<5.0	6.5	<5.0	5.0	7542549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QLC908			QLC909	QLC910		QLC911		
Sampling Date		2021/08/19 15:35			2021/08/19 16:20	2021/08/19 11:40		2021/08/19 10:30		
COC Number		841896-02-01			841896-02-01	841896-02-01		841896-02-01		
	UNITS	MW106 Lab-Dup	RDL	QC Batch	MW108	MW109	RDL	MW110	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L				<1	<1	1	<1	1	7542751
Dissolved Chloride (Cl-)	mg/L				15	18	1.0	520	5.0	7542568
Metals										
Chromium (VI)	ug/L				<0.50	<0.50	0.50	<0.50	0.50	7541858
Mercury (Hg)	ug/L				<0.10	<0.10	0.10	<0.10	0.10	7542703
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7542549	<0.50	<0.50	0.50	<0.50	0.50	7542549
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7542549	<1.0	<1.0	1.0	<1.0	1.0	7542549
Dissolved Barium (Ba)	ug/L	35	2.0	7542549	74	180	2.0	30	2.0	7542549
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7542549	<0.40	<0.40	0.40	<0.40	0.40	7542549
Dissolved Boron (B)	ug/L	71	10	7542549	140	67	10	470	10	7542549
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7542549	<0.090	<0.090	0.090	<0.090	0.090	7542549
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7542549	<5.0	<5.0	5.0	<5.0	5.0	7542549
Dissolved Cobalt (Co)	ug/L	0.99	0.50	7542549	1.8	<0.50	0.50	1.2	0.50	7542549
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7542549	<0.90	<0.90	0.90	<0.90	0.90	7542549
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7542549	<0.50	<0.50	0.50	<0.50	0.50	7542549
Dissolved Molybdenum (Mo)	ug/L	2.0	0.50	7542549	2.7	1.2	0.50	2.0	0.50	7542549
Dissolved Nickel (Ni)	ug/L	1.9	1.0	7542549	5.1	1.6	1.0	3.2	1.0	7542549
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7542549	<2.0	<2.0	2.0	<2.0	2.0	7542549
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7542549	<0.090	<0.090	0.090	<0.090	0.090	7542549
Dissolved Sodium (Na)	ug/L	250000	100	7542549	140000	15000	100	510000	100	7542549
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7542549	<0.050	<0.050	0.050	<0.050	0.050	7542549
Dissolved Uranium (U)	ug/L	42	0.10	7542549	31	4.6	0.10	33	0.10	7542549
Dissolved Vanadium (V)	ug/L	0.50	0.50	7542549	0.81	<0.50	0.50	0.55	0.50	7542549
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7542549	<5.0	<5.0	5.0	<5.0	5.0	7542549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (WTR)

BV Labs ID		QLC912		
Sampling Date		2021/08/19 13:17		
COC Number		841896-01-01		
	UNITS	MW113	RDL	QC Batch
Inorganics				
WAD Cyanide (Free)	ug/L	<1	1	7542751
Dissolved Chloride (Cl-)	mg/L	140	2.0	7542568
Metals				
Chromium (VI)	ug/L	<0.50	0.50	7541858
Mercury (Hg)	ug/L	<0.10	0.10	7542703
Dissolved Antimony (Sb)	ug/L	0.52	0.50	7542549
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7542549
Dissolved Barium (Ba)	ug/L	47	2.0	7542549
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7542549
Dissolved Boron (B)	ug/L	600	10	7542549
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7542549
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7542549
Dissolved Cobalt (Co)	ug/L	6.8	0.50	7542549
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7542549
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7542549
Dissolved Molybdenum (Mo)	ug/L	2.8	0.50	7542549
Dissolved Nickel (Ni)	ug/L	22	1.0	7542549
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7542549
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7542549
Dissolved Sodium (Na)	ug/L	270000	100	7542549
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7542549
Dissolved Uranium (U)	ug/L	22	0.10	7542549
Dissolved Vanadium (V)	ug/L	0.69	0.50	7542549
Dissolved Zinc (Zn)	ug/L	6.0	5.0	7542549

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		QLC905		QLC906	QLC907		
Sampling Date		2021/08/19 14:01		2021/08/19 14:01	2021/08/19 15:45		
COC Number		841896-02-01		841896-02-01	841896-02-01		
	UNITS	MW12	QC Batch	MW1000	MW13	RDL	QC Batch
Calculated Parameters							
Chlordane (Total)	ug/L	<0.005	7541396	<0.005	<0.005	0.005	7537547
o,p-DDD + p,p-DDD	ug/L	<0.005	7541396	<0.005	<0.005	0.005	7537547
o,p-DDE + p,p-DDE	ug/L	<0.005	7541396	<0.005	<0.005	0.005	7537547
o,p-DDT + p,p-DDT	ug/L	<0.005	7541396	<0.005	<0.005	0.005	7537547
Total Endosulfan	ug/L	<0.005	7541396	<0.005	<0.005	0.005	7537547
Total PCB	ug/L	<0.05	7541396	<0.05	<0.05	0.05	7537547
Pesticides & Herbicides							
Aldrin	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Dieldrin	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
a-Chlordane	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
g-Chlordane	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
o,p-DDD	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
p,p-DDD	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
o,p-DDE	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
p,p-DDE	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
o,p-DDT	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
p,p-DDT	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Lindane	ug/L	<0.003	7542196	<0.003	<0.003	0.003	7542196
Endosulfan I (alpha)	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Endosulfan II (beta)	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Endrin	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Heptachlor	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Heptachlor epoxide	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Hexachlorobenzene	ug/L	<0.005	7542196	<0.005	<0.005	0.005	7542196
Hexachlorobutadiene	ug/L	<0.009	7542196	<0.009	<0.009	0.009	7542196
Hexachloroethane	ug/L	<0.01	7542196	<0.01	<0.01	0.01	7542196
Methoxychlor	ug/L	<0.01	7542196	<0.01	<0.01	0.01	7542196
Aroclor 1242	ug/L	<0.05	7542196	<0.05	<0.05	0.05	7542196
Aroclor 1248	ug/L	<0.05	7542196	<0.05	<0.05	0.05	7542196
Aroclor 1254	ug/L	<0.05	7542196	<0.05	<0.05	0.05	7542196
Aroclor 1260	ug/L	<0.05	7542196	<0.05	<0.05	0.05	7542196
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	72	7542196	69	63		7542196
Decachlorobiphenyl	%	109	7542196	97	91		7542196

RDL = Reportable Detection Limit
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O.REG 153 PHCS, BTEX/F1-F4 (WATER)

BV Labs ID		QLC902			QLC902			QLC903		
Sampling Date		2021/08/19 15:00			2021/08/19 15:00			2021/08/19 12:40		
COC Number		841896-02-01			841896-02-01			841896-02-01		
	UNITS	MW02	RDL	QC Batch	MW02 Lab-Dup	RDL	QC Batch	MW03	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/L	<0.20	0.20	7541520	<0.20	0.20	7541520	<0.20	0.20	7541520
Toluene	ug/L	<0.20	0.20	7541520	<0.20	0.20	7541520	<0.20	0.20	7541520
Ethylbenzene	ug/L	<0.20	0.20	7541520	<0.20	0.20	7541520	<0.20	0.20	7541520
o-Xylene	ug/L	<0.20	0.20	7541520	<0.20	0.20	7541520	<0.20	0.20	7541520
p+m-Xylene	ug/L	<0.40	0.40	7541520	<0.40	0.40	7541520	<0.40	0.40	7541520
Total Xylenes	ug/L	<0.40	0.40	7541520	<0.40	0.40	7541520	<0.40	0.40	7541520
F1 (C6-C10)	ug/L	<25	25	7541520	<25	25	7541520	<25	25	7541520
F1 (C6-C10) - BTEX	ug/L	<25	25	7541520	<25	25	7541520	<25	25	7541520
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7542143				<100	100	7542143
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7542143				<200	200	7542143
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7542143				<200	200	7542143
Reached Baseline at C50	ug/L	Yes		7542143				Yes		7542143
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	103		7541520	101		7541520	106		7541520
4-Bromofluorobenzene	%	88		7541520	75		7541520	76		7541520
D10-o-Xylene	%	114		7541520	114		7541520	116		7541520
D4-1,2-Dichloroethane	%	112		7541520	111		7541520	109		7541520
o-Terphenyl	%	99		7542143				97		7542143

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Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		QLC903			QLC904	QLC908	QLC909	QLC910		
Sampling Date		2021/08/19 12:40			2021/08/19 16:30	2021/08/19 15:35	2021/08/19 16:20	2021/08/19 11:40		
COC Number		841896-02-01			841896-02-01	841896-02-01	841896-02-01	841896-02-01		
	UNITS	MW03 Lab-Dup	RDL	QC Batch	MW06	MW106	MW108	MW109	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/L				<0.20	<0.20	<0.20	<0.20	0.20	7541520
Toluene	ug/L				<0.20	<0.20	<0.20	<0.20	0.20	7541520
Ethylbenzene	ug/L				<0.20	<0.20	<0.20	<0.20	0.20	7541520
o-Xylene	ug/L				<0.20	<0.20	<0.20	<0.20	0.20	7541520
p+m-Xylene	ug/L				<0.40	<0.40	<0.40	<0.40	0.40	7541520
Total Xylenes	ug/L				<0.40	<0.40	<0.40	<0.40	0.40	7541520
F1 (C6-C10)	ug/L				<25	<25	<25	<25	25	7541520
F1 (C6-C10) - BTEX	ug/L				<25	<25	<25	<25	25	7541520
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7542143	<100	<100	<100	<100	100	7542143
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7542143	<200	<200	<200	<200	200	7542143
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7542143	<200	<200	<200	<200	200	7542143
Reached Baseline at C50	ug/L	Yes		7542143	Yes	Yes	Yes	Yes		7542143
Surrogate Recovery (%)										
1,4-Difluorobenzene	%				106	109	106	106		7541520
4-Bromofluorobenzene	%				79	81	74	82		7541520
D10-o-Xylene	%				117	117	112	114		7541520
D4-1,2-Dichloroethane	%				108	105	108	108		7541520
o-Terphenyl	%	97		7542143	97	98	97	98		7542143

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

BV Labs ID		QLC911	QLC912		
Sampling Date		2021/08/19 10:30	2021/08/19 13:17		
COC Number		841896-02-01	841896-01-01		
	UNITS	MW110	MW113	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20	<0.20	0.20	7541520
Toluene	ug/L	<0.20	<0.20	0.20	7541520
Ethylbenzene	ug/L	<0.20	<0.20	0.20	7541520
o-Xylene	ug/L	<0.20	<0.20	0.20	7541520
p+m-Xylene	ug/L	<0.40	<0.40	0.40	7541520
Total Xylenes	ug/L	<0.40	<0.40	0.40	7541520
F1 (C6-C10)	ug/L	<25	<25	25	7541520
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	7541520
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	7542143
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	7542143
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	7542143
Reached Baseline at C50	ug/L	Yes	Yes		7542143
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	104	105		7541520
4-Bromofluorobenzene	%	82	79		7541520
D10-o-Xylene	%	114	114		7541520
D4-1,2-Dichloroethane	%	111	109		7541520
o-Terphenyl	%	98	97		7542143

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O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		QLC905	QLC906	QLC907		
Sampling Date		2021/08/19 14:01	2021/08/19 14:01	2021/08/19 15:45		
COC Number		841896-02-01	841896-02-01	841896-02-01		
	UNITS	MW12	MW1000	MW13	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	7537546
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	7537661
Benzene	ug/L	<0.17	<0.17	<0.17	0.17	7537661
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	7537661
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	7537661
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7537661
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	7537661
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	7537661
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	7537661
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	7537661
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	7537661
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	7537661
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	7537661
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	7537661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		QLC905	QLC906	QLC907		
Sampling Date		2021/08/19 14:01	2021/08/19 14:01	2021/08/19 15:45		
COC Number		841896-02-01	841896-02-01	841896-02-01		
	UNITS	MW12	MW1000	MW13	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7537661
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	7537661
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	7537661
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7537661
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	7537661
F1 (C6-C10)	ug/L	<25	<25	<25	25	7537661
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	7537661
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	7542143
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	7542143
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	7542143
Reached Baseline at C50	ug/L	Yes	Yes	Yes		7542143
Surrogate Recovery (%)						
o-Terphenyl	%	98	98	99		7542143
4-Bromofluorobenzene	%	86	86	86		7537661
D4-1,2-Dichloroethane	%	110	116	112		7537661
D8-Toluene	%	91	89	90		7537661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: QLC902
Sample ID: MW02
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC902 Dup
Sample ID: MW02
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu

BV Labs ID: QLC903
Sample ID: MW03
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC903 Dup
Sample ID: MW03
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu

BV Labs ID: QLC904
Sample ID: MW06
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu

TEST SUMMARY

BV Labs ID: QLC904
Sample ID: MW06
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC904 Dup
Sample ID: MW06
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le

BV Labs ID: QLC905
Sample ID: MW12
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7537546	N/A	2021/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad
OC Pesticides (Selected) & PCB	GC/ECD	7542196	2021/08/25	2021/08/26	Li Peng
OC Pesticides Summed Parameters	CALC	7541396	N/A	2021/08/26	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7537661	N/A	2021/08/26	Yang (Philip) Yu

BV Labs ID: QLC906
Sample ID: MW1000
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7537546	N/A	2021/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad
OC Pesticides (Selected) & PCB	GC/ECD	7542196	2021/08/25	2021/08/26	Li Peng
OC Pesticides Summed Parameters	CALC	7537547	N/A	2021/08/26	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7537661	N/A	2021/08/26	Yang (Philip) Yu

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TEST SUMMARY

BV Labs ID: QLC907
Sample ID: MW13
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7537546	N/A	2021/08/26	Automated Statchk
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad
OC Pesticides (Selected) & PCB	GC/ECD	7542196	2021/08/25	2021/08/26	Li Peng
OC Pesticides Summed Parameters	CALC	7537547	N/A	2021/08/26	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7537661	N/A	2021/08/26	Yang (Philip) Yu

BV Labs ID: QLC908
Sample ID: MW106
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC908 Dup
Sample ID: MW106
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC909
Sample ID: MW108
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

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TEST SUMMARY

BV Labs ID: QLC910
Sample ID: MW109
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC911
Sample ID: MW110
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC912
Sample ID: MW113
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7542568	N/A	2021/08/26	Alina Dobreanu
Chromium (VI) in Water	IC	7541858	N/A	2021/08/25	Lang Le
Free (WAD) Cyanide	SKAL/CN	7542751	N/A	2021/08/26	Aditiben Patel
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7541520	N/A	2021/08/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7542143	2021/08/25	2021/08/26	Ravinder Gaidhu
Mercury	CV/AA	7542703	2021/08/26	2021/08/26	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7542549	N/A	2021/08/26	Arefa Dabhad

BV Labs ID: QLC913
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2021/08/19
Shipped:
Received: 2021/08/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7537661	N/A	2021/08/26	Yang (Philip) Yu

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GENERAL COMMENTS

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

Package 1	7.7°C
Package 2	8.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7537661	4-Bromofluorobenzene	2021/08/26	102	70 - 130	101	70 - 130	86	%		
7537661	D4-1,2-Dichloroethane	2021/08/26	105	70 - 130	98	70 - 130	111	%		
7537661	D8-Toluene	2021/08/26	104	70 - 130	107	70 - 130	88	%		
7541520	1,4-Difluorobenzene	2021/08/25	96	70 - 130	97	70 - 130	105	%		
7541520	4-Bromofluorobenzene	2021/08/25	102	70 - 130	104	70 - 130	97	%		
7541520	D10-o-Xylene	2021/08/25	86	70 - 130	84	70 - 130	116	%		
7541520	D4-1,2-Dichloroethane	2021/08/25	104	70 - 130	100	70 - 130	107	%		
7542143	o-Terphenyl	2021/08/26	101	60 - 130	99	60 - 130	98	%		
7542196	2,4,5,6-Tetrachloro-m-xylene	2021/08/26	68	50 - 130	74	50 - 130	69	%		
7542196	Decachlorobiphenyl	2021/08/26	94	50 - 130	104	50 - 130	94	%		
7537661	1,1,1,2-Tetrachloroethane	2021/08/26	104	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7537661	1,1,1-Trichloroethane	2021/08/26	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
7537661	1,1,2,2-Tetrachloroethane	2021/08/26	105	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
7537661	1,1,2-Trichloroethane	2021/08/26	106	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
7537661	1,1-Dichloroethane	2021/08/26	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7537661	1,1-Dichloroethylene	2021/08/26	96	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7537661	1,2-Dichlorobenzene	2021/08/26	100	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7537661	1,2-Dichloroethane	2021/08/26	99	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
7537661	1,2-Dichloropropane	2021/08/26	103	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7537661	1,3-Dichlorobenzene	2021/08/26	99	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7537661	1,4-Dichlorobenzene	2021/08/26	125	70 - 130	122	70 - 130	<0.50	ug/L	NC	30
7537661	Acetone (2-Propanone)	2021/08/26	110	60 - 140	93	60 - 140	<10	ug/L	0.023	30
7537661	Benzene	2021/08/26	93	70 - 130	92	70 - 130	<0.17	ug/L	8.9	30
7537661	Bromodichloromethane	2021/08/26	107	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7537661	Bromoform	2021/08/26	105	70 - 130	93	70 - 130	<1.0	ug/L	NC	30
7537661	Bromomethane	2021/08/26	102	60 - 140	108	60 - 140	<0.50	ug/L	NC	30
7537661	Carbon Tetrachloride	2021/08/26	102	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
7537661	Chlorobenzene	2021/08/26	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7537661	Chloroform	2021/08/26	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7537661	cis-1,2-Dichloroethylene	2021/08/26	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7537661	cis-1,3-Dichloropropene	2021/08/26	100	70 - 130	98	70 - 130	<0.30	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7537661	Dibromochloromethane	2021/08/26	96	70 - 130	112	70 - 130	<0.50	ug/L	NC	30
7537661	Dichlorodifluoromethane (FREON 12)	2021/08/26	96	60 - 140	106	60 - 140	<1.0	ug/L	NC	30
7537661	Ethylbenzene	2021/08/26	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7537661	Ethylene Dibromide	2021/08/26	101	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7537661	F1 (C6-C10) - BTEX	2021/08/26					<25	ug/L	NC	30
7537661	F1 (C6-C10)	2021/08/26	88	60 - 140	87	60 - 140	<25	ug/L	NC	30
7537661	Hexane	2021/08/26	96	70 - 130	103	70 - 130	<1.0	ug/L	NC	30
7537661	Methyl Ethyl Ketone (2-Butanone)	2021/08/26	121	60 - 140	98	60 - 140	<10	ug/L	NC	30
7537661	Methyl Isobutyl Ketone	2021/08/26	112	70 - 130	91	70 - 130	<5.0	ug/L	NC	30
7537661	Methyl t-butyl ether (MTBE)	2021/08/26	95	70 - 130	89	70 - 130	<0.50	ug/L	NC	30
7537661	Methylene Chloride(Dichloromethane)	2021/08/26	101	70 - 130	98	70 - 130	<2.0	ug/L	NC	30
7537661	o-Xylene	2021/08/26	90	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7537661	p+m-Xylene	2021/08/26	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7537661	Styrene	2021/08/26	103	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
7537661	Tetrachloroethylene	2021/08/26	93	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7537661	Toluene	2021/08/26	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7537661	Total Xylenes	2021/08/26					<0.20	ug/L	NC	30
7537661	trans-1,2-Dichloroethylene	2021/08/26	99	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7537661	trans-1,3-Dichloropropene	2021/08/26	107	70 - 130	109	70 - 130	<0.40	ug/L	NC	30
7537661	Trichloroethylene	2021/08/26	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
7537661	Trichlorofluoromethane (FREON 11)	2021/08/26	99	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
7537661	Vinyl Chloride	2021/08/26	101	70 - 130	108	70 - 130	<0.20	ug/L	NC	30
7541520	Benzene	2021/08/25	104	50 - 140	105	50 - 140	<0.20	ug/L	NC	30
7541520	Ethylbenzene	2021/08/25	115	50 - 140	118	50 - 140	<0.20	ug/L	NC	30
7541520	F1 (C6-C10) - BTEX	2021/08/25					<25	ug/L	NC	30
7541520	F1 (C6-C10)	2021/08/25	93	60 - 140	96	60 - 140	<25	ug/L	NC	30
7541520	o-Xylene	2021/08/25	114	50 - 140	116	50 - 140	<0.20	ug/L	NC	30
7541520	p+m-Xylene	2021/08/25	109	50 - 140	112	50 - 140	<0.40	ug/L	NC	30
7541520	Toluene	2021/08/25	99	50 - 140	101	50 - 140	<0.20	ug/L	NC	30
7541520	Total Xylenes	2021/08/25					<0.40	ug/L	NC	30
7541858	Chromium (VI)	2021/08/25	98	80 - 120	104	80 - 120	<0.50	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7542143	F2 (C10-C16 Hydrocarbons)	2021/08/26	96	60 - 130	100	60 - 130	<100	ug/L	NC	30
7542143	F3 (C16-C34 Hydrocarbons)	2021/08/26	98	60 - 130	104	60 - 130	<200	ug/L	NC	30
7542143	F4 (C34-C50 Hydrocarbons)	2021/08/26	101	60 - 130	106	60 - 130	<200	ug/L	NC	30
7542196	a-Chlordane	2021/08/26	72	50 - 130	79	50 - 130	<0.005	ug/L	5.0	30
7542196	Aldrin	2021/08/26	70	50 - 130	71	50 - 130	<0.005	ug/L	9.1	30
7542196	Aroclor 1242	2021/08/26					<0.05	ug/L		
7542196	Aroclor 1248	2021/08/26					<0.05	ug/L		
7542196	Aroclor 1254	2021/08/26					<0.05	ug/L		
7542196	Aroclor 1260	2021/08/26					<0.05	ug/L		
7542196	Dieldrin	2021/08/26	87	50 - 130	93	50 - 130	<0.005	ug/L	6.4	30
7542196	Endosulfan I (alpha)	2021/08/26	77	50 - 130	90	50 - 130	<0.005	ug/L	3.7	30
7542196	Endosulfan II (beta)	2021/08/26	78	50 - 130	81	50 - 130	<0.005	ug/L	8.2	30
7542196	Endrin	2021/08/26	75	50 - 130	80	50 - 130	<0.005	ug/L	1.9	30
7542196	g-Chlordane	2021/08/26	73	50 - 130	77	50 - 130	<0.005	ug/L	4.6	30
7542196	Heptachlor epoxide	2021/08/26	80	50 - 130	87	50 - 130	<0.005	ug/L	4.2	30
7542196	Heptachlor	2021/08/26	62	50 - 130	62	50 - 130	<0.005	ug/L	5.1	30
7542196	Hexachlorobenzene	2021/08/26	71	50 - 130	78	50 - 130	<0.005	ug/L	6.0	30
7542196	Hexachlorobutadiene	2021/08/26	69	50 - 130	75	50 - 130	<0.009	ug/L	13	30
7542196	Hexachloroethane	2021/08/26	57	50 - 130	63	50 - 130	<0.01	ug/L	25	30
7542196	Lindane	2021/08/26	65	50 - 130	72	50 - 130	<0.003	ug/L	3.8	30
7542196	Methoxychlor	2021/08/26	73	50 - 130	73	50 - 130	<0.01	ug/L	6.6	30
7542196	o,p-DDD	2021/08/26	96	50 - 130	99	50 - 130	<0.005	ug/L	8.7	30
7542196	o,p-DDE	2021/08/26	100	50 - 130	105	50 - 130	<0.005	ug/L	5.0	30
7542196	o,p-DDT	2021/08/26	75	50 - 130	72	50 - 130	<0.005	ug/L	1.7	30
7542196	p,p-DDD	2021/08/26	97	50 - 130	94	50 - 130	<0.005	ug/L	13	30
7542196	p,p-DDE	2021/08/26	73	50 - 130	83	50 - 130	<0.005	ug/L	2.5	30
7542196	p,p-DDT	2021/08/26	64	50 - 130	61	50 - 130	<0.005	ug/L	6.8	30
7542549	Dissolved Antimony (Sb)	2021/08/26	99	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7542549	Dissolved Arsenic (As)	2021/08/26	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
7542549	Dissolved Barium (Ba)	2021/08/26	98	80 - 120	102	80 - 120	<2.0	ug/L	3.3	20
7542549	Dissolved Beryllium (Be)	2021/08/26	100	80 - 120	103	80 - 120	<0.40	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7542549	Dissolved Boron (B)	2021/08/26	96	80 - 120	99	80 - 120	<10	ug/L	3.0	20
7542549	Dissolved Cadmium (Cd)	2021/08/26	97	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
7542549	Dissolved Chromium (Cr)	2021/08/26	94	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7542549	Dissolved Cobalt (Co)	2021/08/26	96	80 - 120	99	80 - 120	<0.50	ug/L	0.20	20
7542549	Dissolved Copper (Cu)	2021/08/26	95	80 - 120	98	80 - 120	<0.90	ug/L	NC	20
7542549	Dissolved Lead (Pb)	2021/08/26	95	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7542549	Dissolved Molybdenum (Mo)	2021/08/26	100	80 - 120	97	80 - 120	<0.50	ug/L	0.56	20
7542549	Dissolved Nickel (Ni)	2021/08/26	93	80 - 120	99	80 - 120	<1.0	ug/L	14	20
7542549	Dissolved Selenium (Se)	2021/08/26	102	80 - 120	103	80 - 120	<2.0	ug/L	NC	20
7542549	Dissolved Silver (Ag)	2021/08/26	82	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
7542549	Dissolved Sodium (Na)	2021/08/26	NC	80 - 120	99	80 - 120	<100	ug/L	1.1	20
7542549	Dissolved Thallium (Tl)	2021/08/26	99	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
7542549	Dissolved Uranium (U)	2021/08/26	99	80 - 120	99	80 - 120	<0.10	ug/L	2.5	20
7542549	Dissolved Vanadium (V)	2021/08/26	96	80 - 120	95	80 - 120	<0.50	ug/L	0	20
7542549	Dissolved Zinc (Zn)	2021/08/26	95	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7542568	Dissolved Chloride (Cl-)	2021/08/26	NC	80 - 120	101	80 - 120	<1.0	mg/L	4.8	20
7542703	Mercury (Hg)	2021/08/26	86	75 - 125	92	80 - 120	<0.10	ug/L	NC	20
7542751	WAD Cyanide (Free)	2021/08/26	96	80 - 120	108	80 - 120	<1	ug/L	NC	20

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.

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.

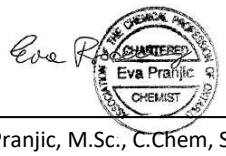
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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).

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

VALIDATION SIGNATURE PAGE

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



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

BV Labs 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 Signature Page.

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20-Aug-21 17:17

Ema Gitej

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Page 1 of 2

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

KSE ENV-1408

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		BV Labs Job #:	Bottle Order #:
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	~~CT1349~~ Terrapex Schedule B		841896
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:		COC #:	Project Manager:
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00	C#841896-02-01	Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:			
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	AE AS		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine; ☑ Table 2 ☑ Ind/Comm ☐ Coarse; ☑ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 Metals & Inorganics Pkg (Wet)	O.Reg 153 OC Pesticides (Water)	BTEX & F1-F4	# of Bottles	Comments
1		MW02	Aug 19 2021	15:00	GW			✓		✓	10	
2		MW03		12:40				✓		✓	10	
3		MW06		16:30				✓		✓	10	
4		MW12		14:01			✓	✓	✓	✓	12	
5		MW1000		14:01			✓	✓	✓	✓	12	
6		MW13		15:45			✓	✓	✓	✓	12	
7		MW106		15:35				✓		✓	10	
8		MW108		16:20				✓		✓	10	
9		MW109		11:40				✓		✓	10	
10		MW110		10:30				✓		✓	10	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Jesse Forty JESSE FORTY	21/08/19	18:30	DIPIKA SINGH	2021/08/20	17:17	0

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	8/7/8	Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

WB#428140 8/9/18

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	~~C11849~~ Terrapex Std B	BV Labs Job #:	Bottle Order #: 841896
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.00	COC #:	Project Manager:
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:		C#841896-01-01	Ema Gitej
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:			

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Please provide advance notice for rush projects

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 Metals & Inorganics Pkg (Wtr)	O.Reg 153 OC Pesticides (Water)	BTEX F1-F4	VOC					# of Bottles	Comments
1		MW 113	aug 19 2021	13:17	GW			✓		✓						10	
2		TRIP BLANK	1	"	1					✓	✓					2	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
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				
Jesse Tatty Jesse Tatty	21/08/19	18:30	See page 1			0	Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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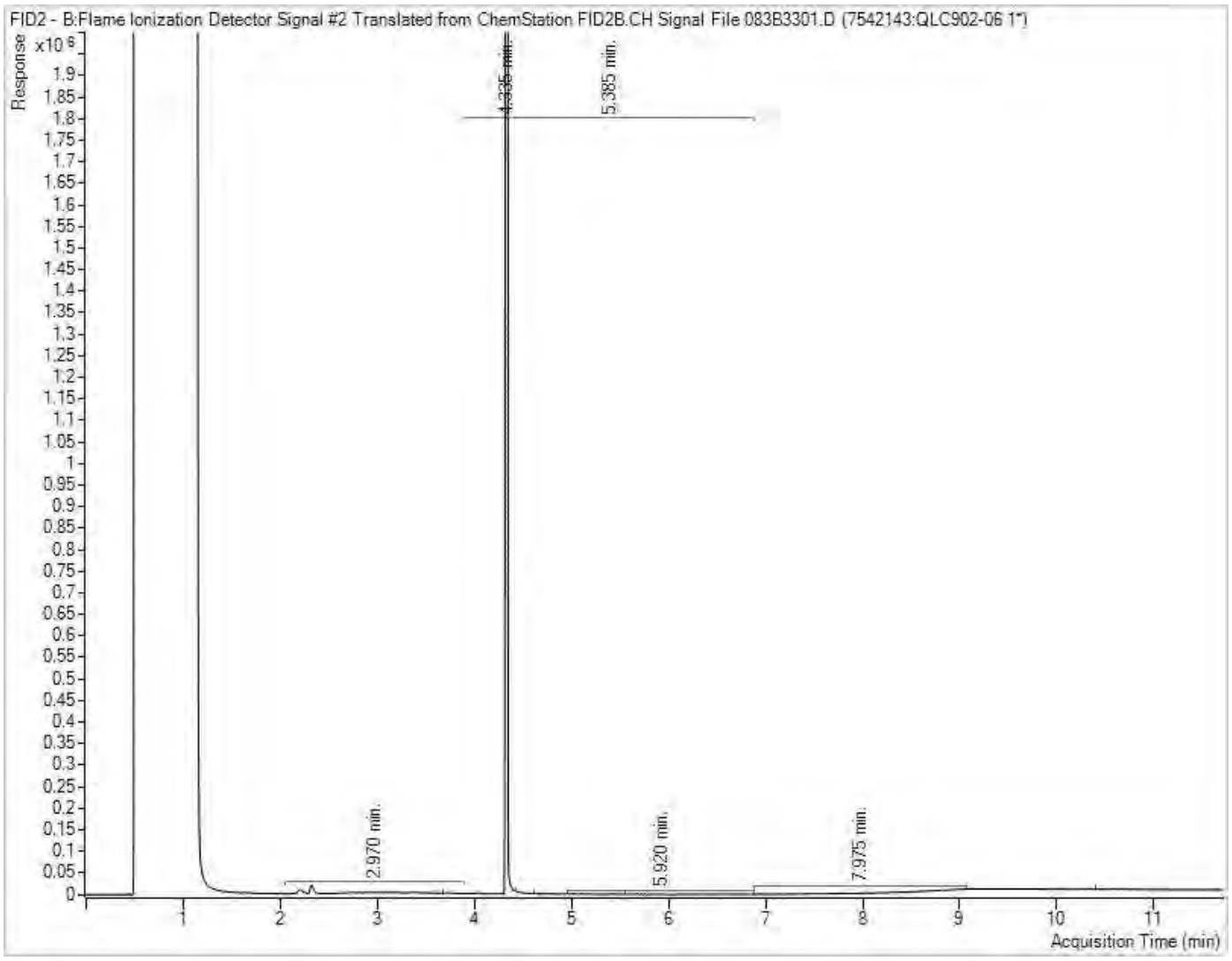
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

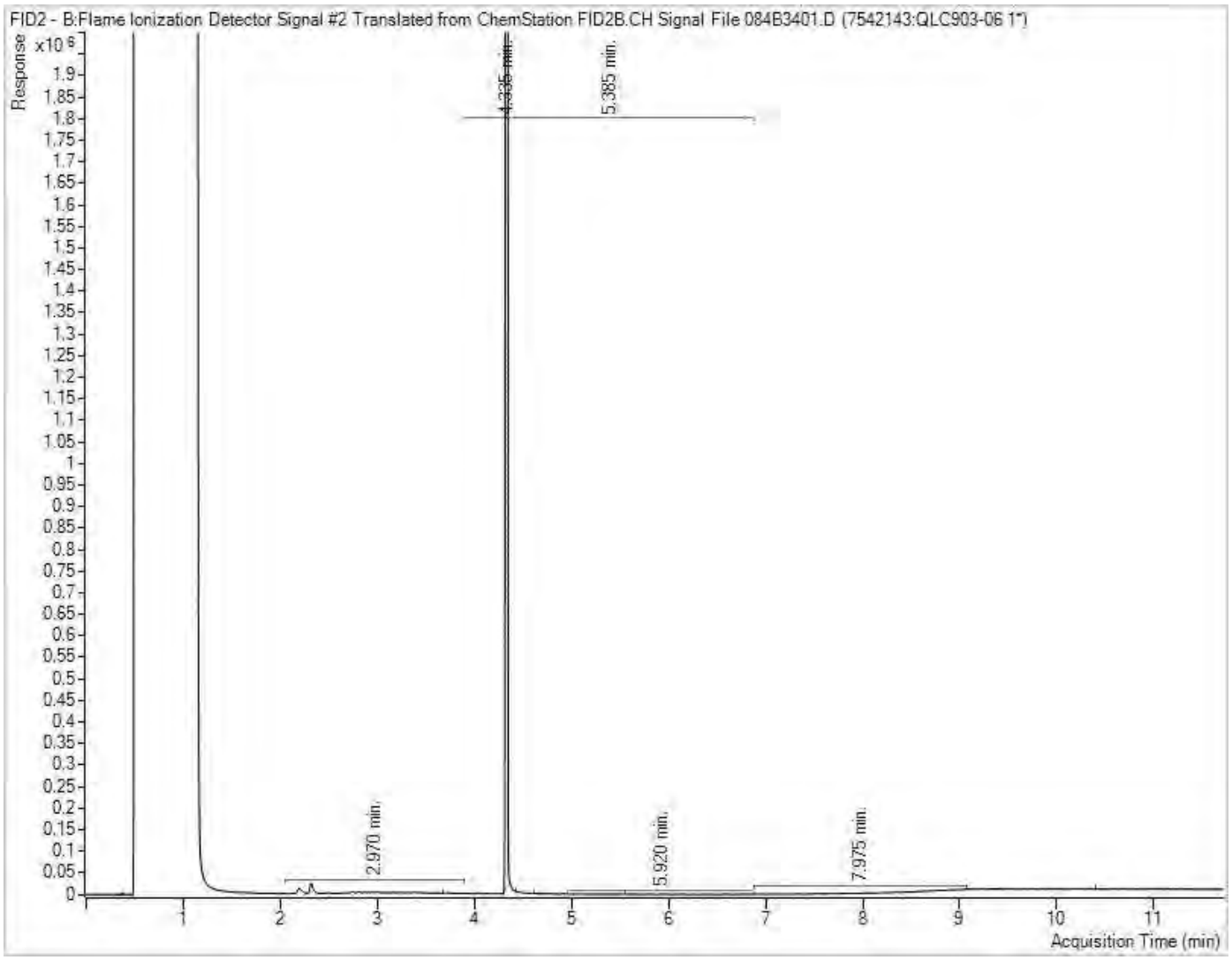
White: BV Labs Yellow: Client

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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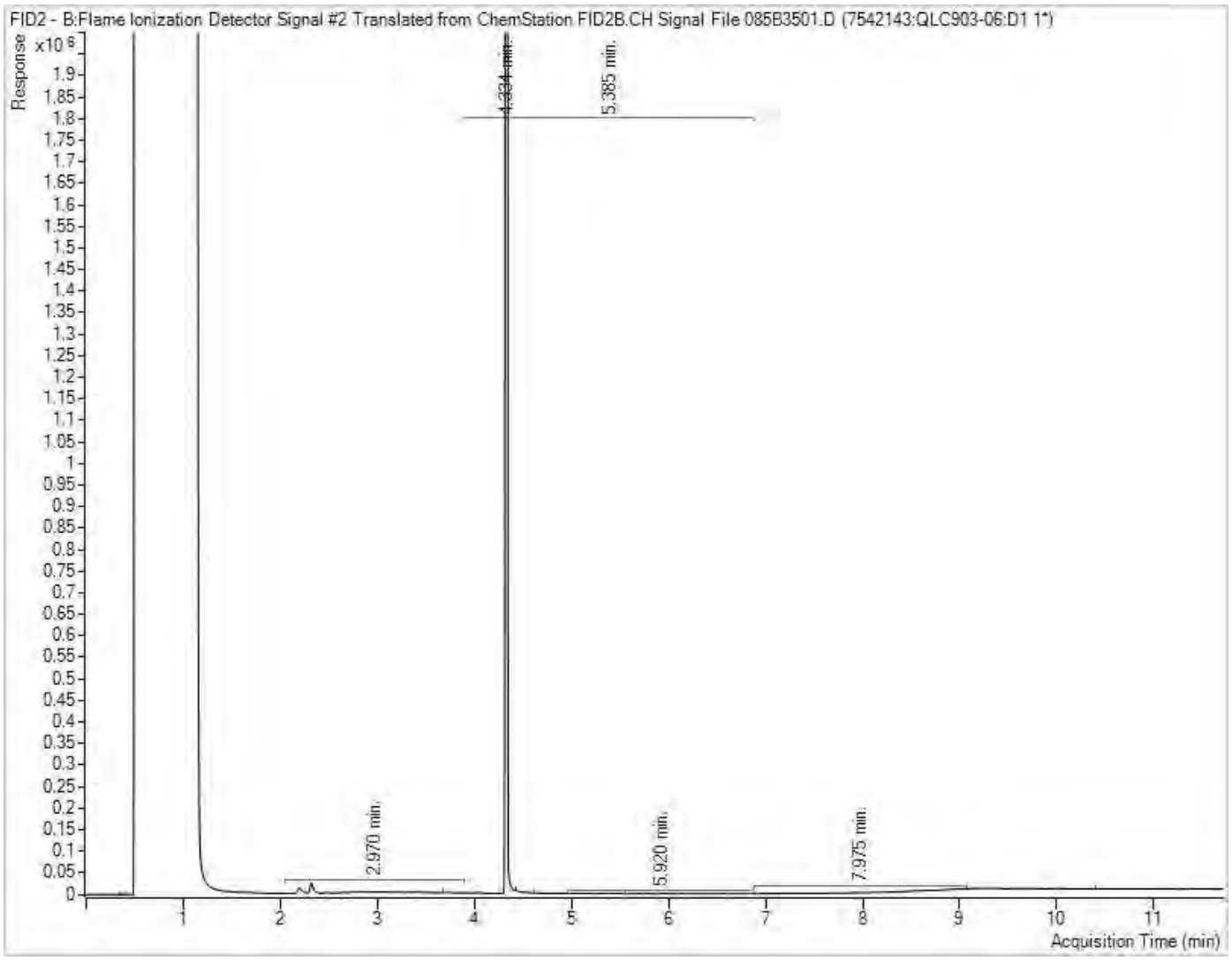
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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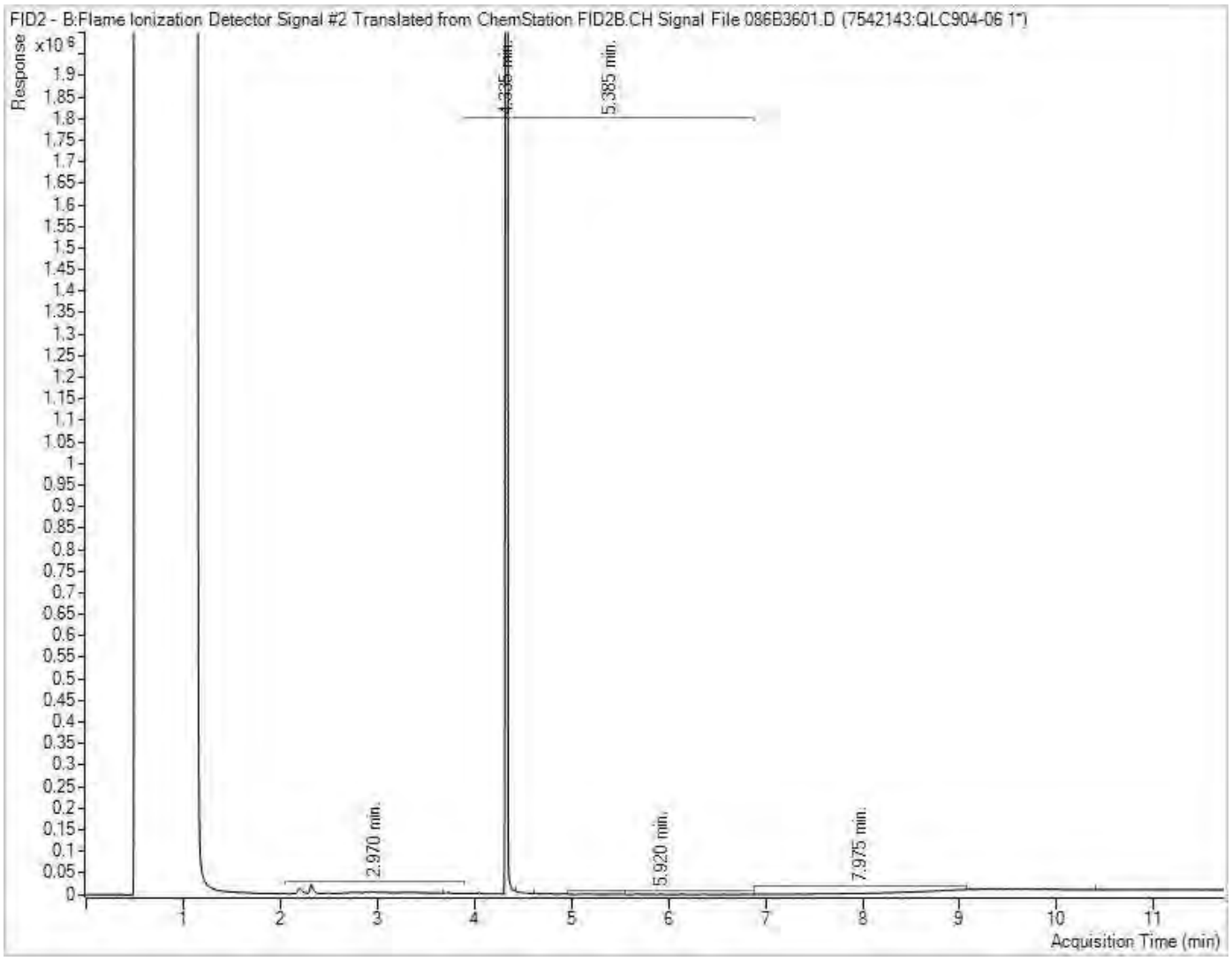

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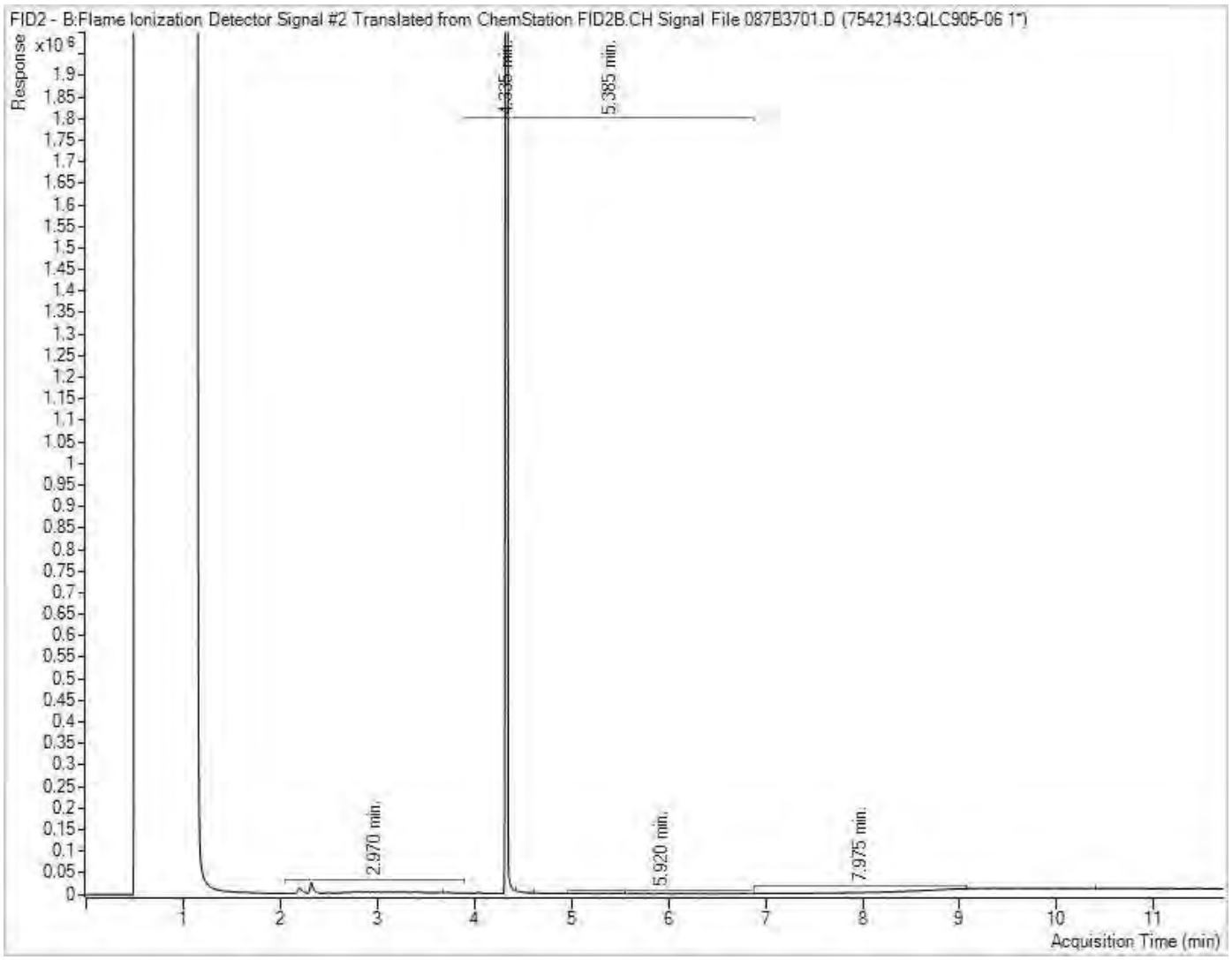

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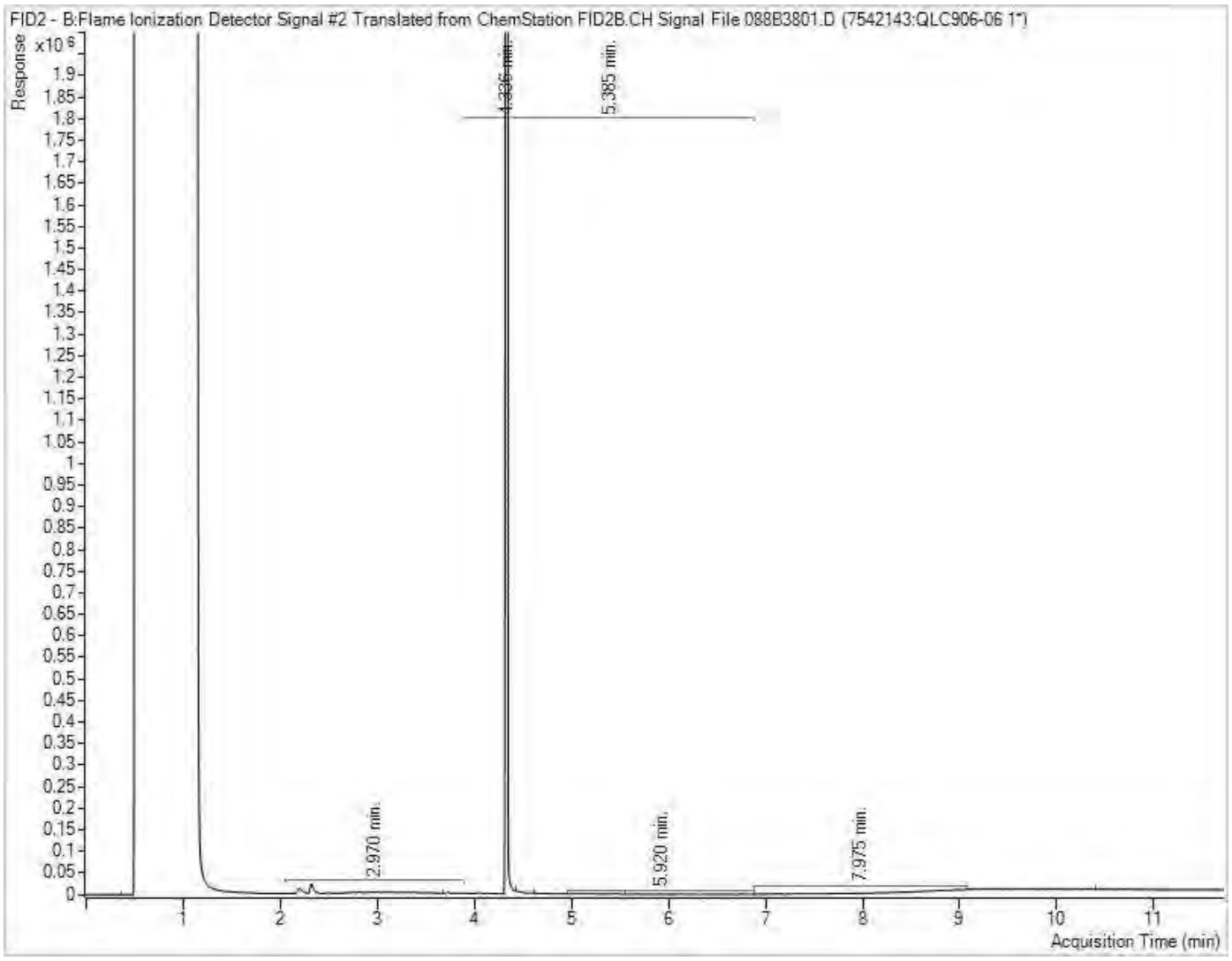
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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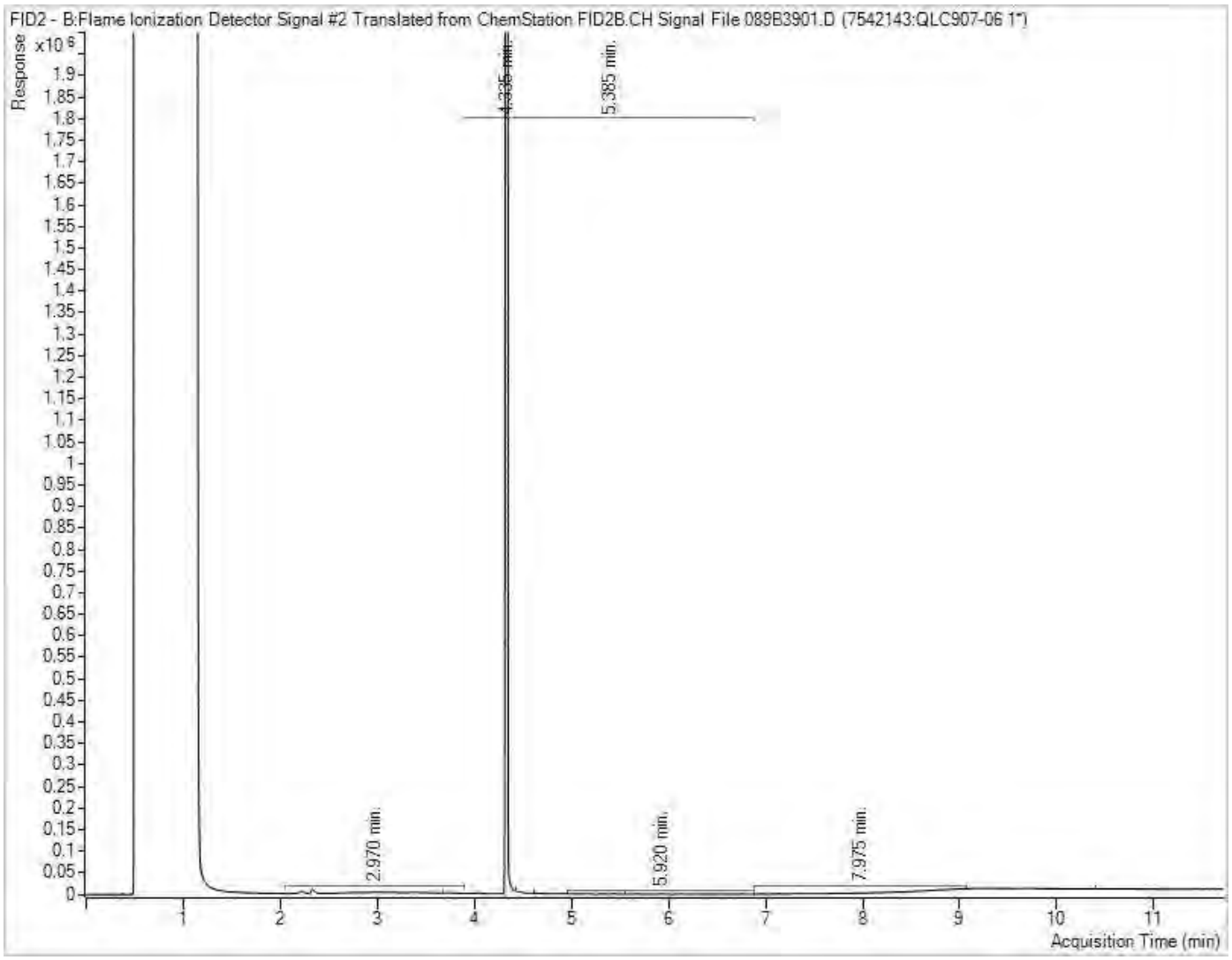
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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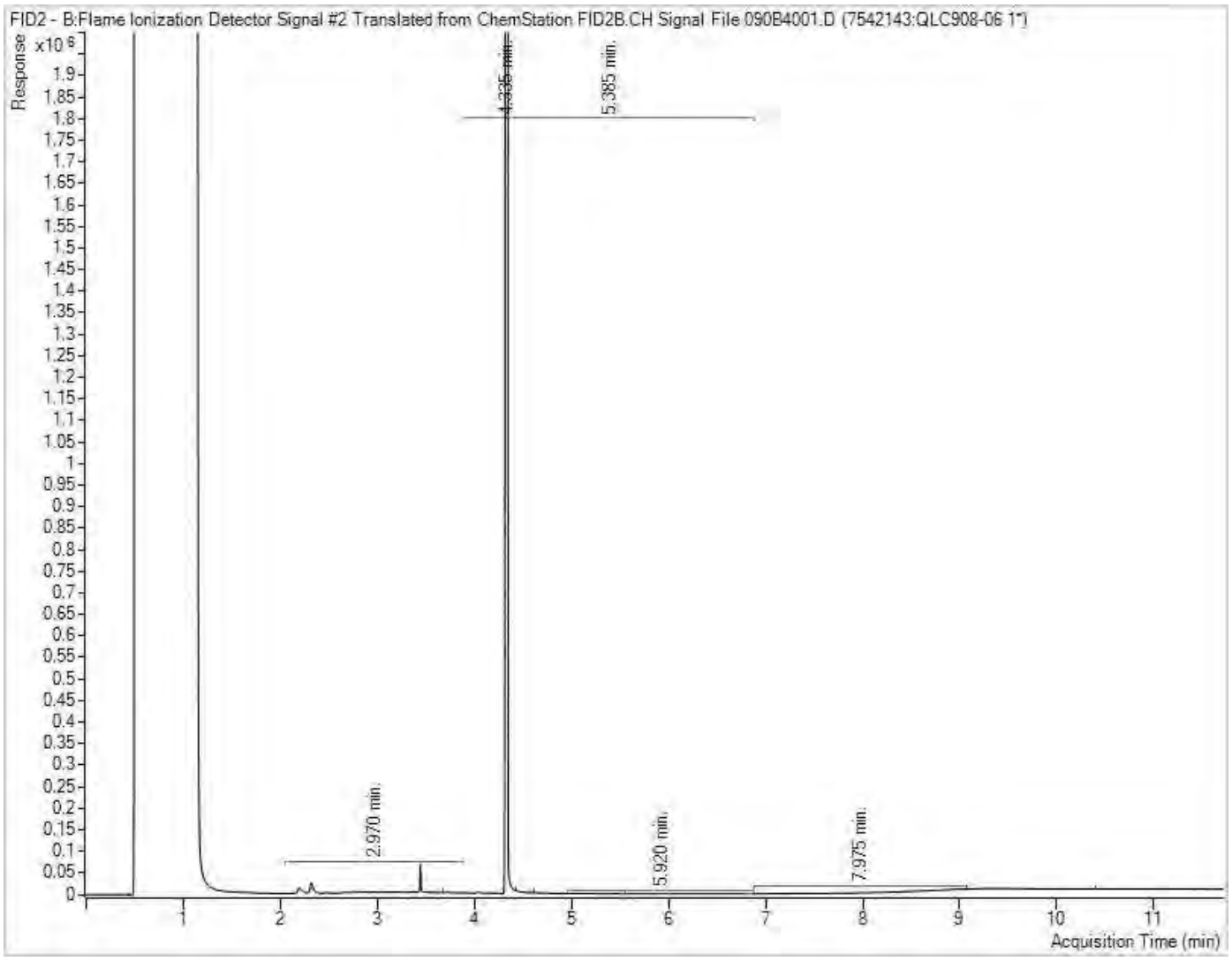
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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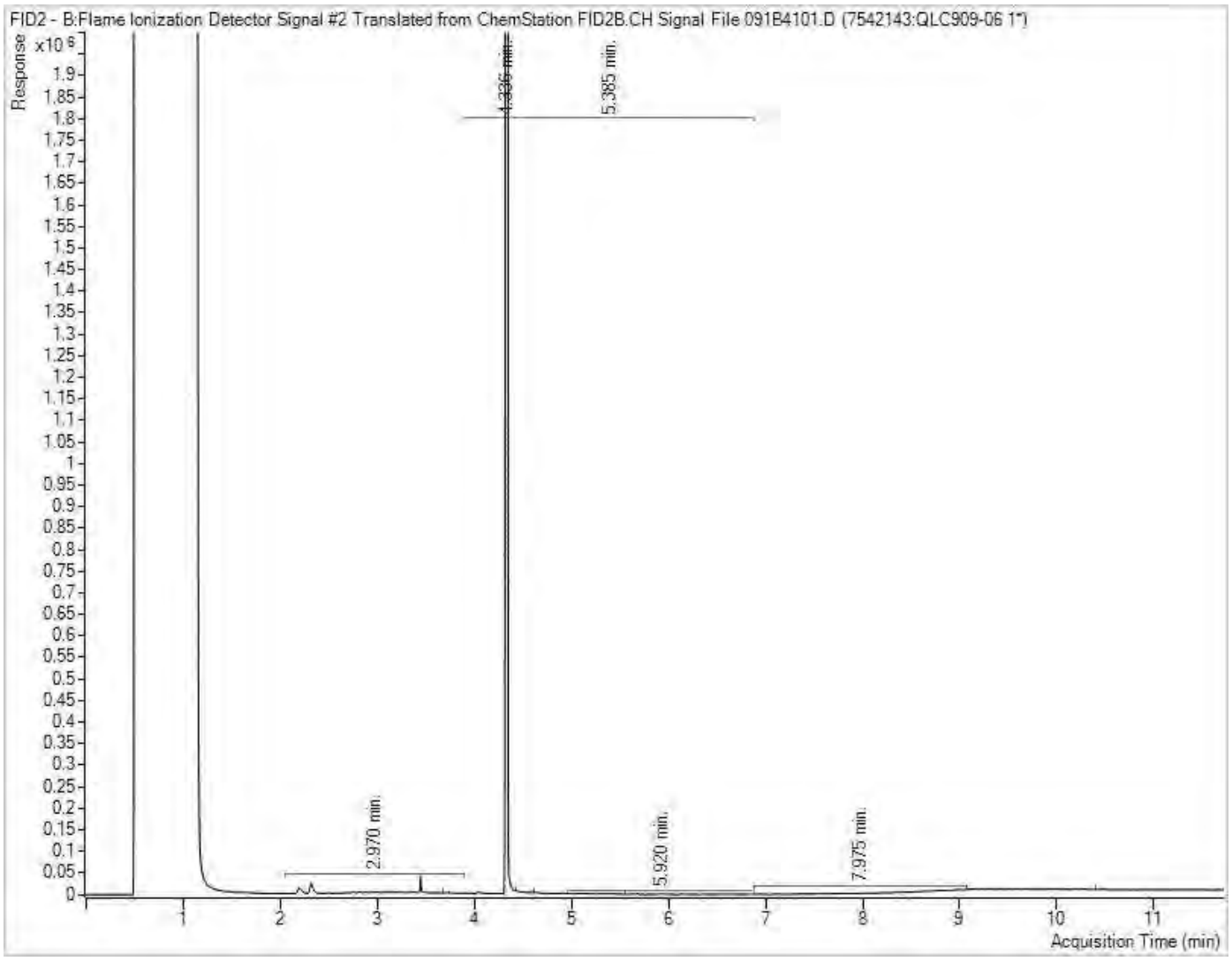
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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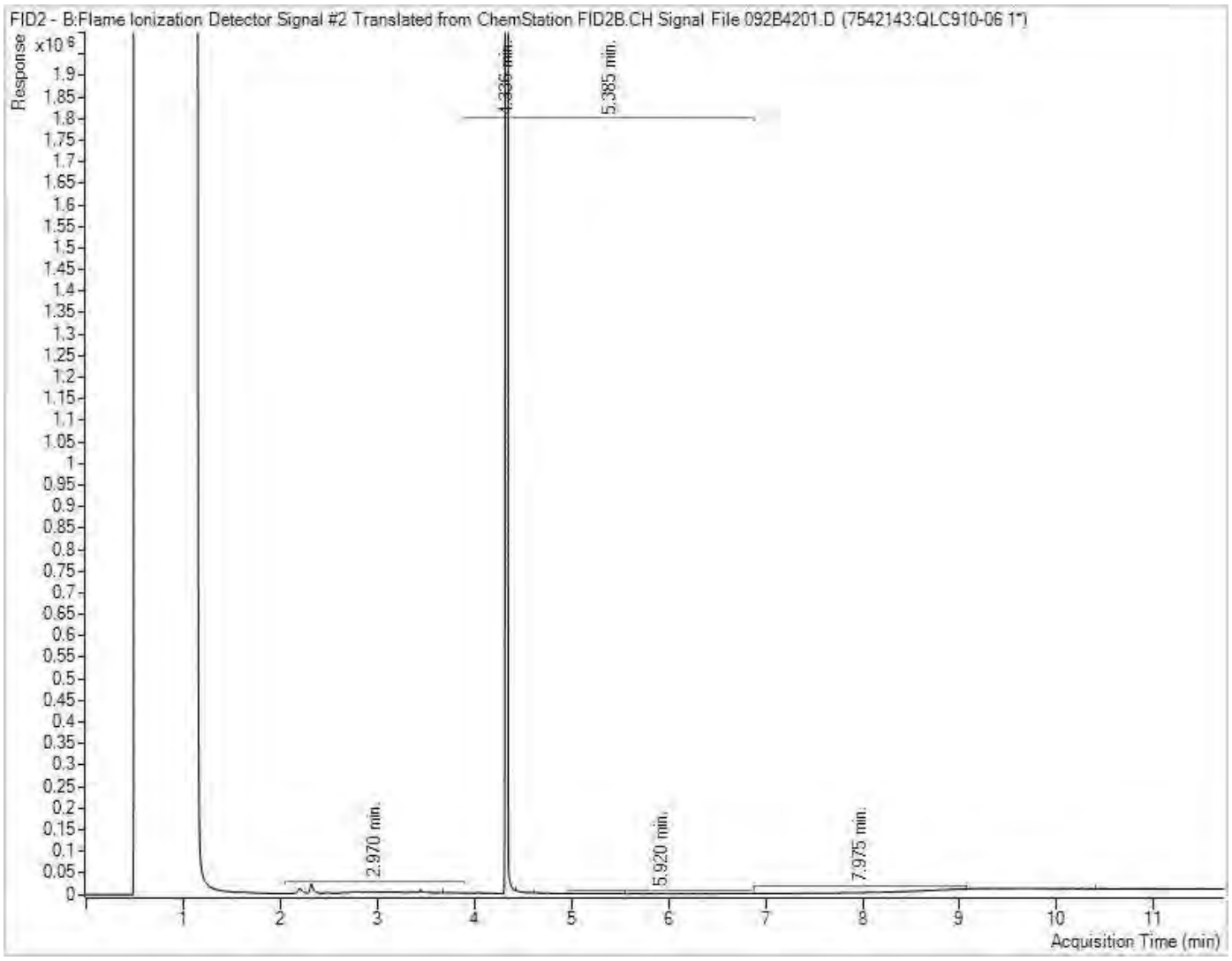
Petroleum Hydrocarbons F2-F4 in Water Chromatogram

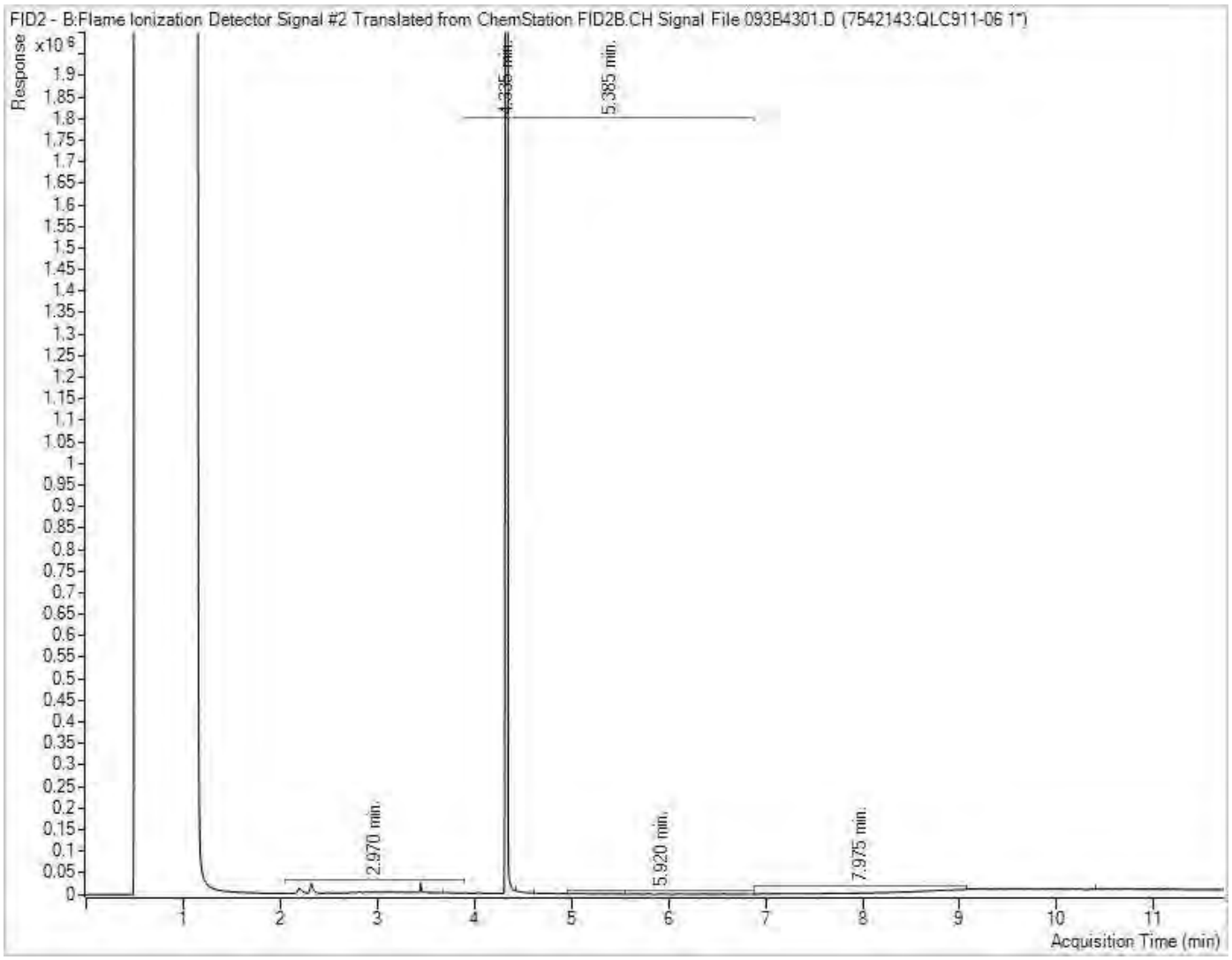


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1N8509
Report Date: 2021/08/26
BV Labs Sample: QLC911

Terrapex Environmental Ltd
Client Project #: CT3243.00
Client ID: MW110

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

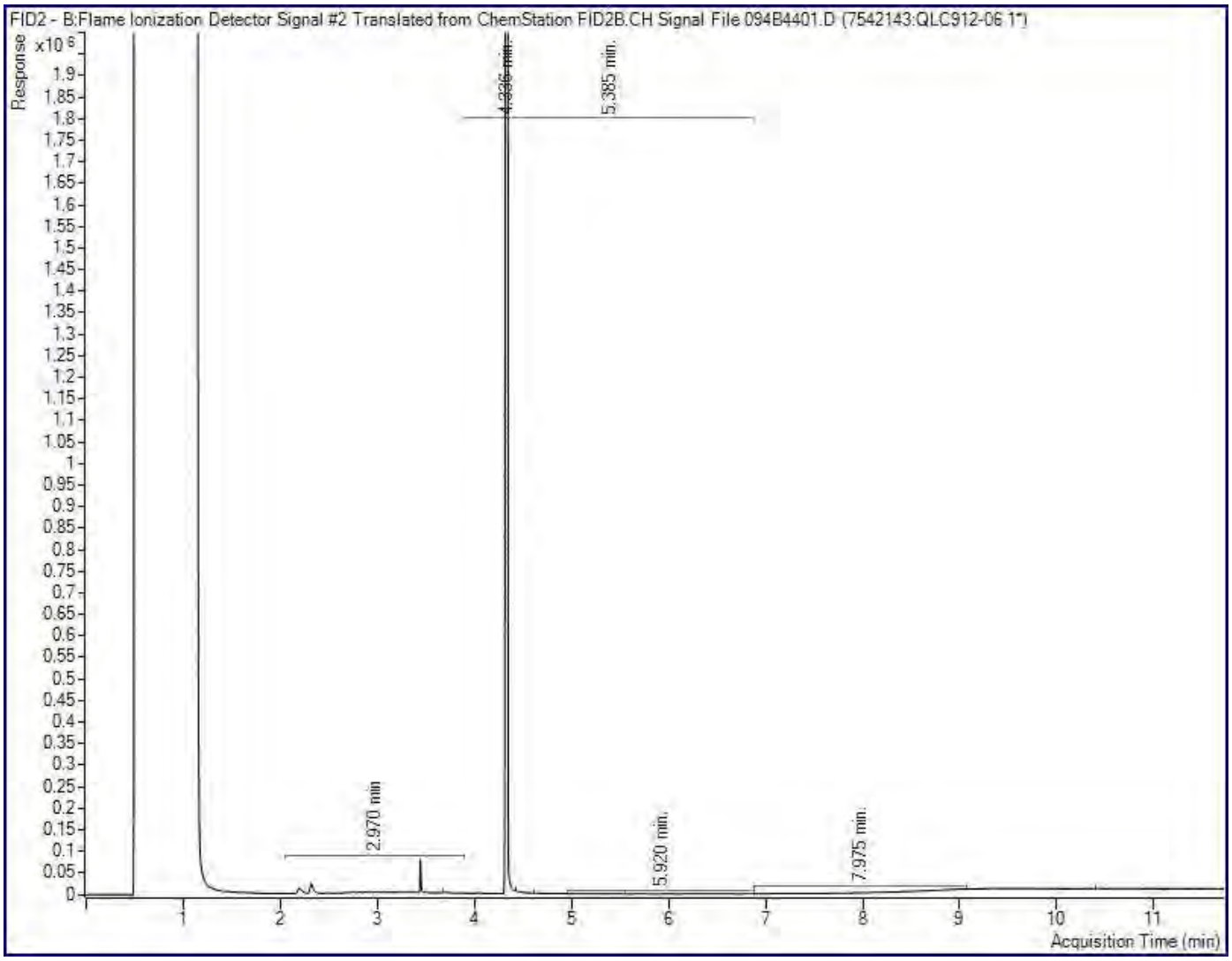


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1N8509
Report Date: 2021/08/26
BV Labs Sample: QLC912

Terrapex Environmental Ltd
Client Project #: CT3243.00
Client ID: MW113

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Your C.O.C. #: 872778-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/10
Report #: R7119313
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C0017
Received: 2022/05/04, 16:40

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	1	2022/05/10	2022/05/10	CAM SOP-00447	EPA 6020B m

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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Your C.O.C. #: 872778-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/10
Report #: R7119313
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C0017
Received: 2022/05/04, 16:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C2C0017
Report Date: 2022/05/10

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Sampler Initials: AP

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SNN003	SNN003		
Sampling Date		2022/05/03 11:33	2022/05/03 11:33		
COC Number		872778-01-01	872778-01-01		
	UNITS	1-BH209-2	1-BH209-2 Lab-Dup	RDL	QC Batch
Metals					
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	7985924
Acid Extractable Arsenic (As)	ug/g	5.6	5.3	1.0	7985924
Acid Extractable Barium (Ba)	ug/g	140	140	0.50	7985924
Acid Extractable Beryllium (Be)	ug/g	1.1	1.0	0.20	7985924
Acid Extractable Boron (B)	ug/g	9.9	8.9	5.0	7985924
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7985924
Acid Extractable Chromium (Cr)	ug/g	29	29	1.0	7985924
Acid Extractable Cobalt (Co)	ug/g	15	16	0.10	7985924
Acid Extractable Copper (Cu)	ug/g	25	26	0.50	7985924
Acid Extractable Lead (Pb)	ug/g	10	11	1.0	7985924
Acid Extractable Molybdenum (Mo)	ug/g	0.52	0.56	0.50	7985924
Acid Extractable Nickel (Ni)	ug/g	34	34	0.50	7985924
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7985924
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7985924
Acid Extractable Thallium (Tl)	ug/g	0.16	0.15	0.050	7985924
Acid Extractable Uranium (U)	ug/g	0.75	0.73	0.050	7985924
Acid Extractable Vanadium (V)	ug/g	41	40	5.0	7985924
Acid Extractable Zinc (Zn)	ug/g	67	67	5.0	7985924

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C2C0017
Report Date: 2022/05/10

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SNN003
Sample ID: 1-BH209-2
Matrix: Soil

Collected: 2022/05/03
Shipped:
Received: 2022/05/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7985924	2022/05/10	2022/05/10	Azita Fazaeli

Bureau Veritas ID: SNN003 Dup
Sample ID: 1-BH209-2
Matrix: Soil

Collected: 2022/05/03
Shipped:
Received: 2022/05/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7985924	2022/05/10	2022/05/10	Azita Fazaeli

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Bureau Veritas Job #: C2C0017
Report Date: 2022/05/10

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Sampler Initials: AP

GENERAL COMMENTS

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

Package 1	5.0°C

Results relate only to the items tested.

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Bureau Veritas Job #: C2C0017
Report Date: 2022/05/10

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Sampler Initials: AP

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7985924	Acid Extractable Antimony (Sb)	2022/05/10	85	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
7985924	Acid Extractable Arsenic (As)	2022/05/10	99	75 - 125	103	80 - 120	<1.0	ug/g	7.0	30
7985924	Acid Extractable Barium (Ba)	2022/05/10	NC	75 - 125	101	80 - 120	<0.50	ug/g	0.045	30
7985924	Acid Extractable Beryllium (Be)	2022/05/10	105	75 - 125	103	80 - 120	<0.20	ug/g	0.77	30
7985924	Acid Extractable Boron (B)	2022/05/10	96	75 - 125	100	80 - 120	<5.0	ug/g	9.8	30
7985924	Acid Extractable Cadmium (Cd)	2022/05/10	97	75 - 125	95	80 - 120	<0.10	ug/g	NC	30
7985924	Acid Extractable Chromium (Cr)	2022/05/10	NC	75 - 125	103	80 - 120	<1.0	ug/g	2.3	30
7985924	Acid Extractable Cobalt (Co)	2022/05/10	99	75 - 125	102	80 - 120	<0.10	ug/g	1.1	30
7985924	Acid Extractable Copper (Cu)	2022/05/10	NC	75 - 125	102	80 - 120	<0.50	ug/g	0.96	30
7985924	Acid Extractable Lead (Pb)	2022/05/10	99	75 - 125	99	80 - 120	<1.0	ug/g	0.74	30
7985924	Acid Extractable Molybdenum (Mo)	2022/05/10	101	75 - 125	99	80 - 120	<0.50	ug/g	7.2	30
7985924	Acid Extractable Nickel (Ni)	2022/05/10	NC	75 - 125	105	80 - 120	<0.50	ug/g	0.31	30
7985924	Acid Extractable Selenium (Se)	2022/05/10	100	75 - 125	105	80 - 120	<0.50	ug/g	NC	30
7985924	Acid Extractable Silver (Ag)	2022/05/10	99	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
7985924	Acid Extractable Thallium (Tl)	2022/05/10	97	75 - 125	100	80 - 120	<0.050	ug/g	4.6	30
7985924	Acid Extractable Uranium (U)	2022/05/10	98	75 - 125	98	80 - 120	<0.050	ug/g	1.6	30
7985924	Acid Extractable Vanadium (V)	2022/05/10	NC	75 - 125	104	80 - 120	<5.0	ug/g	3.4	30
7985924	Acid Extractable Zinc (Zn)	2022/05/10	NC	75 - 125	100	80 - 120	<5.0	ug/g	0.38	30

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.

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.

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).

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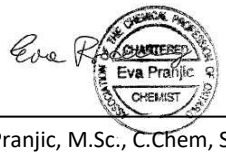
Bureau Veritas Job #: C2C0017
Report Date: 2022/05/10

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC1
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



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

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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

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: #4398 Terrapex Environmental Ltd	Company Name: ~~#6839~~ Terrapex Environmental Ltd	Quotation #: ~~C20955~~ C21481	Bureau Veritas Job #: / Bottle Order #: 872778
Attention: Accounts Payable	Attention: ~~Alex Parniak~~ Roy Yu	P.O. #:	
Address: 90 Scarsdale Rd, Toronto ON M3B 2R7	Address: ~~65 Nebo Road, Hamilton ON L8W 2C9~~ SAME AS INVOICE	Project: ~~CT1624.62~~ CT3243.01	COC #: C#872778-01-01 / Project Manager: Kudrat Bajwa
Tel: (416) 245-0011 Fax: (416) 245-0012	Tel: ~~(416) 238-8673~~ 416-245-0011 x229 Fax:	Project Name: Grand Niagara RSC 1	
Email: accounts.payable@terrapex.com	Email: ~~a.parniak@terrapex.com~~ R.Yu@terrapex.com	Site #:	
		Sampled By: AP	

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): ☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	O Reg 153 VOCs by HS	ICPMS Metals	# of Bottles	Comments
1		1-BH209-2	May 3/22	11:33am	S	N		X	1	
2										
3										
4										
5										
6										
7										
8										
9										
10										

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

04-May-22 16:40
Kudrat Bajwa
C2C0017

VP4 ENV-1244

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak	22/05/03		Raman Ramandeep Kaur	2022/05/04	16:40	0

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 5 | 5 | 5 | Custody Seal Present ☐ Yes ☐ No | Intact ☐ ☐

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

#563025

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7130532
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9268
Received: 2022/05/12, 16:00

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Conductivity	1	2022/05/18	2022/05/18	CAM SOP-00414	OMOE E3530 v1 m
Sodium Adsorption Ratio (SAR)	1	N/A	2022/05/18	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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7130532
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9268
Received: 2022/05/12, 16:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

==========

Bureau Veritas Job #: C2C9268
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SPN174		
Sampling Date		2022/03/29 15:00		
COC Number		N/A		
	UNITS	**1-MW208-10**	**RDL**	**QC Batch**
Calculated Parameters				
Sodium Adsorption Ratio	N/A	1.8		7993665
Inorganics				
Conductivity	mS/cm	1.4	0.002	8001300

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2C9268
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SPN174
Sample ID: 1-MW208-10
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/05/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8001300	2022/05/18	2022/05/18	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7993665	N/A	2022/05/18	Automated Statchk

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GENERAL COMMENTS

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

Package 1	4.0°C

Conductivity analysed past hold time.

Results relate only to the items tested.

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

Bureau Veritas Job #: C2C9268
Report Date: 2022/05/18

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

			SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8001300	Conductivity	2022/05/18	100	90 - 110	<0.002	mS/cm	0.54	10

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

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.

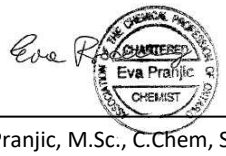
Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas Job #: C2C9268
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



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

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www.BVNA.com

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Invoice Information		Report Information (if differs from invoice)		Project Information	
Invoice to (requires report) ☐					
Company:	Terrapex Environmental Ltd.	Company:	Terrapex Environmental Ltd.	Quotation #:	C21481
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	—
Street Address:	90 Scarsdale Rd.	Street Address:	90 Scarsdale Rd.	Project #:	CT3243.01
City: Toronto Prov: ON Postal Code:	M3B 2R7	City: Toronto Prov: ON Postal Code:	M3B2R7	Site #:	—
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	Grand Niagara Golf RSC:
Email:	accounts.payable@terrapex.com	Email:	r.yu@terrapex.com	Site Location Province:	—
Copies:		Copies:		Sampled By:	AP

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 5 ☐ Res/Park ☐ Ind/Comm ☐ Agri/other ☒ Med/Fine ☐ Course ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ PWQO ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☒

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 ICPMS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10 EC/SAR	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	1- MW208-10	22	03	29	15	00	Soil										X											1	
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

12-May-22 16:00
Kudrat Bajwa
C2C9268
ASR ENV-652

Regular Turnaround Time (TAT): ☒ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply: ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present	✓		3	5	4	
Seal intact	✓					
Cooling media present	✓					

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special Instructions
1	Alex Parniak AP	2022	05	11	18	17	Parneet/Parneet Kharod	2022	05	12	16	00	
2													

Butt 566374

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/19
Report #: R7132120
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2C9268
Received: 2022/05/12, 16:00

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Conductivity	1	2022/05/18	2022/05/18	CAM SOP-00414	OMOE E3530 v1 m
Sodium Adsorption Ratio (SAR)	1	N/A	2022/05/18	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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/19
Report #: R7132120
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2C9268
Received: 2022/05/12, 16:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C2C9268
Report Date: 2022/05/19

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SPN174		
Sampling Date		2022/03/29 15:00		
COC Number		N/A		
	UNITS	**1-MW208-10**	**RDL**	**QC Batch**
Calculated Parameters				
Sodium Adsorption Ratio	N/A	1.8		7993665
Inorganics				
Conductivity	mS/cm	1.4	0.002	8001300

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C2C9268
Report Date: 2022/05/19

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SPN174
Sample ID: 1-MW208-10
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/05/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8001300	2022/05/18	2022/05/18	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7993665	N/A	2022/05/18	Automated Statchk

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GENERAL COMMENTS

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

Package 1	4.0°C

Conductivity analysed past hold time.

Results relate only to the items tested.

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Bureau Veritas Job #: C2C9268
Report Date: 2022/05/19

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

			SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8001300	Conductivity	2022/05/18	100	90 - 110	<0.002	mS/cm	0.54	10

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

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.

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Bureau Veritas Job #: C2C9268
Report Date: 2022/05/19

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 1
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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

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www.BVNA.com

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Invoice Information		Report Information (if differs from invoice)		Project Information	
Invoice to (requires report) ☐					
Company:	Terrapex Environmental Ltd.	Company:	Terrapex Environmental Ltd.	Quotation #:	C21481
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	—
Street Address:	90 Scarsdale Rd.	Street Address:	90 Scarsdale Rd.	Project #:	CT3243.01
City: Toronto Prov: ON Postal Code:	M3B 2R7	City: Toronto Prov: ON Postal Code:	M3B2R7	Site #:	—
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	Grand Niagara Golf RSC:
Email:	accounts.payable@terrapex.com	Email:	r.yu@terrapex.com	Site Location Province:	—
Copies:		Copies:		Sampled By:	AP

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 5 ☐ Res/Park ☐ Ind/Comm ☐ Agri/other ☒ Med/Fine ☐ Course ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ PWQO ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☒

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 ICPMS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10 EC/SAR	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	1- MW208-10	22	03	29	15	00	Soil										X											1	
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

12-May-22 16:00
Kudrat Bajwa
C2C9268
ASR ENV-652

Regular Turnaround Time (TAT): ☒ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply: ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present	✓		3	5	4	
Seal intact	✓					
Cooling media present	✓					

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special Instructions
1	Alex Parniak AP	2022	05	11	18	17	Parneet/Parneet Kharod	2022	05	12	16	00	
2													

Butt 566374

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 871281-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101367
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C281316
Received: 2022/03/28, 16:03

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	5	2022/03/31	2022/03/31	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2022/03/31	2022/04/01	CAM SOP-00457	OMOE E3015 m
Conductivity	4	2022/03/30	2022/03/30	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	7	2022/03/31	2022/03/31	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	5	2022/03/30	2022/03/31	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	6	N/A	2022/03/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	6	2022/03/31	2022/04/01	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	2	2022/03/31	2022/03/31	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/03/31	2022/04/01	CAM SOP-00447	EPA 6020B m
Moisture	9	N/A	2022/03/29	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	5	2022/03/31	2022/03/31	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	9	N/A	2022/03/31	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/01	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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 871281-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101367
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C281316
Received: 2022/03/28, 16:03

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

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

==========

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Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFC645			SFC645			SFC648		
Sampling Date		2022/03/24 10:00			2022/03/24 10:00			2022/03/24 16:20		
COC Number		871281-01-01			871281-01-01			871281-01-01		
	UNITS	1-BH201-1	RDL	QC Batch	1-BH201-1 Lab-Dup	RDL	QC Batch	1-BH202-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.45		7908111				0.57		7908111
Inorganics										
Conductivity	mS/cm	0.49	0.002	7912416				0.76	0.002	7913854
Moisture	%	22	1.0	7909364						
Available (CaCl2) pH	pH	7.67		7913788				7.29		7913788
WAD Cyanide (Free)	ug/g	<0.01	0.01	7913802				<0.01	0.01	7913802
Chromium (VI)	ug/g	0.22	0.18	7911709				<0.18	0.18	7911709
Metals										
Hot Water Ext. Boron (B)	ug/g	0.17	0.050	7914072	0.19	0.050	7914072	0.19	0.050	7914072
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7914735				0.31	0.20	7913891
Acid Extractable Arsenic (As)	ug/g	5.4	1.0	7914735				5.3	1.0	7913891
Acid Extractable Barium (Ba)	ug/g	120	0.50	7914735				86	0.50	7913891
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7914735				0.86	0.20	7913891
Acid Extractable Boron (B)	ug/g	5.1	5.0	7914735				<5.0	5.0	7913891
Acid Extractable Cadmium (Cd)	ug/g	0.18	0.10	7914735				0.19	0.10	7913891
Acid Extractable Chromium (Cr)	ug/g	31	1.0	7914735				30	1.0	7913891
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7914735				13	0.10	7913891
Acid Extractable Copper (Cu)	ug/g	21	0.50	7914735				19	0.50	7913891
Acid Extractable Lead (Pb)	ug/g	18	1.0	7914735				18	1.0	7913891
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.50	7914735				1.3	0.50	7913891
Acid Extractable Nickel (Ni)	ug/g	31	0.50	7914735				25	0.50	7913891
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7914735				<0.50	0.50	7913891
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7914735				0.28	0.20	7913891
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7914735				0.17	0.050	7913891
Acid Extractable Uranium (U)	ug/g	0.89	0.050	7914735				0.89	0.050	7913891
Acid Extractable Vanadium (V)	ug/g	43	5.0	7914735				40	5.0	7913891
Acid Extractable Zinc (Zn)	ug/g	78	5.0	7914735				75	5.0	7913891
Acid Extractable Mercury (Hg)	ug/g	0.053	0.050	7914735				0.083	0.050	7913891

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFC650			SFC652			SFC654		
Sampling Date		2022/03/24 17:02			2022/03/24 17:45			2022/03/24 17:18		
COC Number		871281-01-01			871281-01-01			871281-01-01		
	UNITS	1-BH203-1	RDL	QC Batch	1-BH204-1	RDL	QC Batch	1-BH205-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.29 (1)		7908111	0.35		7908111	0.31 (1)		7908111
Inorganics										
Conductivity	mS/cm	0.13	0.002	7912416	0.34	0.002	7913854	0.11	0.002	7912416
Moisture	%	8.0	1.0	7909364				7.2	1.0	7909364
Available (CaCl2) pH	pH	7.80		7913805	7.58		7913788	7.90		7913805
WAD Cyanide (Free)	ug/g	<0.01	0.01	7913802	<0.01	0.01	7913802	<0.01	0.01	7913802
Chromium (VI)	ug/g	<0.18	0.18	7911709	<0.18	0.18	7911709	<0.18	0.18	7911709
Metals										
Hot Water Ext. Boron (B)	ug/g	0.057	0.050	7914072	0.14	0.050	7914072	0.064	0.050	7914072
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7914735	<0.20	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Arsenic (As)	ug/g	1.0	1.0	7914735	4.2	1.0	7914735	1.3	1.0	7913790
Acid Extractable Barium (Ba)	ug/g	7.9	0.50	7914735	100	0.50	7914735	9.3	0.50	7913790
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	7914735	0.82	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7914735	5.9	5.0	7914735	<5.0	5.0	7913790
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7914735	0.12	0.10	7914735	<0.10	0.10	7913790
Acid Extractable Chromium (Cr)	ug/g	3.6	1.0	7914735	25	1.0	7914735	5.3	1.0	7913790
Acid Extractable Cobalt (Co)	ug/g	1.4	0.10	7914735	13	0.10	7914735	2.1	0.10	7913790
Acid Extractable Copper (Cu)	ug/g	6.2	0.50	7914735	21	0.50	7914735	8.3	0.50	7913790
Acid Extractable Lead (Pb)	ug/g	26	1.0	7914735	13	1.0	7914735	5.0	1.0	7913790
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7914735	0.65	0.50	7914735	<0.50	0.50	7913790
Acid Extractable Nickel (Ni)	ug/g	2.9	0.50	7914735	28	0.50	7914735	4.2	0.50	7913790
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7914735	<0.50	0.50	7914735	<0.50	0.50	7913790
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7914735	<0.20	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Thallium (Tl)	ug/g	<0.050	0.050	7914735	0.14	0.050	7914735	<0.050	0.050	7913790
Acid Extractable Uranium (U)	ug/g	0.22	0.050	7914735	0.84	0.050	7914735	0.31	0.050	7913790
Acid Extractable Vanadium (V)	ug/g	7.6	5.0	7914735	34	5.0	7914735	13	5.0	7913790
Acid Extractable Zinc (Zn)	ug/g	14	5.0	7914735	61	5.0	7914735	25	5.0	7913790
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7914735	<0.050	0.050	7914735	<0.050	0.050	7913790

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 #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

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

Bureau Veritas ID		SFC646	SFC648	SFC651	SFC652	SFC655	SFC656		
Sampling Date		2022/03/24 15:10	2022/03/24 16:20	2022/03/24 17:21	2022/03/24 17:45	2022/03/24 18:00	2022/03/24 18:07		
COC Number		871281-01-01	871281-01-01	871281-01-01	871281-01-01	871281-01-01	871281-01-01		
	UNITS	**1-BH201-3B**	**1-BH202-1**	**1-BH203-4**	**1-BH204-1**	**1-BH205-4**	**1-BH205-94**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	20	21	22	17	19	8.0	1.0	7909040
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7911948
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7911948
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	<10	10	7911948
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	<10	10	7911948
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	7915999
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	7915999
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	7915999
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes		7915999
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	101	102	107	101	99	102		7911948
4-Bromofluorobenzene	%	100	100	100	105	101	100		7911948
D10-o-Xylene	%	95	98	102	90	92	92		7911948
D4-1,2-Dichloroethane	%	98	99	106	94	96	93		7911948
o-Terphenyl	%	102	94	97	102	103	103		7915999

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SFC646			SFC649	SFC651			SFC653		
Sampling Date		2022/03/24 15:10			2022/03/24 16:29	2022/03/24 17:21			2022/03/24 17:52		
COC Number		871281-01-01			871281-01-01	871281-01-01			871281-01-01		
	UNITS	1-BH201-3B	RDL	QC Batch	1-BH202-4	1-BH203-4	RDL	QC Batch	1-BH204-4	RDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.44		7908111	0.82	0.55		7908111	0.21		7908111
Inorganics											
Conductivity	mS/cm	3.3	0.002	7913712	3.3	1.2	0.002	7913854	0.31	0.002	7912416
Miscellaneous Parameters											
Grain Size	%	FINE	N/A	7952276					FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	96	1	7952276					82	1	7952276
Sieve - #200 (>0.075mm)	%	4	1	7952276					18	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SFC655		SFC656		
Sampling Date		2022/03/24 18:00		2022/03/24 18:07		
COC Number		871281-01-01		871281-01-01		
	UNITS	1-BH205-4	QC Batch	1-BH205-94	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.28	7908111	0.46		7908111
Inorganics						
Conductivity	mS/cm	0.41	7913712	0.39	0.002	7913854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC645
Sample ID: 1-BH201-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC645 Dup
Sample ID: 1-BH201-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John

Bureau Veritas ID: SFC646
Sample ID: 1-BH201-3B
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913712	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/04/01	Automated Statchk

Bureau Veritas ID: SFC648
Sample ID: 1-BH202-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7913891	2022/03/31	2022/03/31	Daniel Teclu
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC649
Sample ID: 1-BH202-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC650
Sample ID: 1-BH203-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913805	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC651
Sample ID: 1-BH203-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC652
Sample ID: 1-BH204-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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Bureau Veritas Job #: C281316
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC653
Sample ID: 1-BH204-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC654
Sample ID: 1-BH205-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7913790	2022/03/31	2022/03/31	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913805	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC655
Sample ID: 1-BH205-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913712	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/04/01	Automated Statchk

Bureau Veritas ID: SFC656
Sample ID: 1-BH205-94
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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GENERAL COMMENTS

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

Package 1	1.3°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 1-BH201-3B and 1-BH204-4 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7911948	1,4-Difluorobenzene	2022/03/30	97	60 - 140	101	60 - 140	101	%				
7911948	4-Bromofluorobenzene	2022/03/30	100	60 - 140	104	60 - 140	100	%				
7911948	D10-o-Xylene	2022/03/30	97	60 - 140	105	60 - 140	93	%				
7911948	D4-1,2-Dichloroethane	2022/03/30	97	60 - 140	99	60 - 140	99	%				
7915999	o-Terphenyl	2022/04/01	104	60 - 130	107	60 - 130	108	%				
7909040	Moisture	2022/03/29							2.5	20		
7911709	Chromium (VI)	2022/03/31	71	70 - 130	89	80 - 120	<0.18	ug/g	0.97	35		
7911948	Benzene	2022/03/30	95	50 - 140	108	50 - 140	<0.020	ug/g	NC	50		
7911948	Ethylbenzene	2022/03/30	109	50 - 140	115	50 - 140	<0.020	ug/g	NC	50		
7911948	F1 (C6-C10) - BTEX	2022/03/30					<10	ug/g	NC	30		
7911948	F1 (C6-C10)	2022/03/30	80	60 - 140	93	80 - 120	<10	ug/g	NC	30		
7911948	o-Xylene	2022/03/30	105	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7911948	p+m-Xylene	2022/03/30	109	50 - 140	115	50 - 140	<0.040	ug/g	NC	50		
7911948	Toluene	2022/03/30	91	50 - 140	100	50 - 140	<0.020	ug/g	NC	50		
7911948	Total Xylenes	2022/03/30					<0.040	ug/g	NC	50		
7912416	Conductivity	2022/03/30			100	90 - 110	<0.002	mS/cm	0.41	10		
7913712	Conductivity	2022/03/31			99	90 - 110	<0.002	mS/cm	1.2	10		
7913788	Available (CaCl2) pH	2022/03/31			100	97 - 103			0.031	N/A		
7913790	Acid Extractable Antimony (Sb)	2022/03/31	112	75 - 125	104	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Arsenic (As)	2022/03/31	103	75 - 125	99	80 - 120	<1.0	ug/g	NC	30		
7913790	Acid Extractable Barium (Ba)	2022/03/31	104	75 - 125	101	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Beryllium (Be)	2022/03/31	112	75 - 125	103	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Boron (B)	2022/03/31	104	75 - 125	97	80 - 120	<5.0	ug/g				
7913790	Acid Extractable Cadmium (Cd)	2022/03/31	107	75 - 125	97	80 - 120	<0.10	ug/g				
7913790	Acid Extractable Chromium (Cr)	2022/03/31	108	75 - 125	103	80 - 120	<1.0	ug/g				
7913790	Acid Extractable Cobalt (Co)	2022/03/31	106	75 - 125	102	80 - 120	<0.10	ug/g				
7913790	Acid Extractable Copper (Cu)	2022/03/31	105	75 - 125	98	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Lead (Pb)	2022/03/31	107	75 - 125	103	80 - 120	<1.0	ug/g				
7913790	Acid Extractable Mercury (Hg)	2022/03/31	94	75 - 125	94	80 - 120	<0.050	ug/g				
7913790	Acid Extractable Molybdenum (Mo)	2022/03/31	110	75 - 125	100	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Nickel (Ni)	2022/03/31	106	75 - 125	100	80 - 120	<0.50	ug/g				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7913790	Acid Extractable Selenium (Se)	2022/03/31	101	75 - 125	94	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Silver (Ag)	2022/03/31	109	75 - 125	101	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Thallium (Tl)	2022/03/31	108	75 - 125	104	80 - 120	<0.050	ug/g				
7913790	Acid Extractable Uranium (U)	2022/03/31	107	75 - 125	102	80 - 120	<0.050	ug/g	3.5	30		
7913790	Acid Extractable Vanadium (V)	2022/03/31	112	75 - 125	98	80 - 120	<5.0	ug/g				
7913790	Acid Extractable Zinc (Zn)	2022/03/31	110	75 - 125	102	80 - 120	<5.0	ug/g				
7913802	WAD Cyanide (Free)	2022/04/01	85	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		
7913805	Available (CaCl2) pH	2022/03/31			100	97 - 103			0.27	N/A		
7913854	Conductivity	2022/03/31			99	90 - 110	<0.002	mS/cm	0.62	10		
7913891	Acid Extractable Antimony (Sb)	2022/03/31	93	75 - 125	100	80 - 120	<0.20	ug/g	3.7	30		
7913891	Acid Extractable Arsenic (As)	2022/03/31	103	75 - 125	99	80 - 120	<1.0	ug/g	1.4	30		
7913891	Acid Extractable Barium (Ba)	2022/03/31	NC	75 - 125	99	80 - 120	<0.50	ug/g	0.80	30		
7913891	Acid Extractable Beryllium (Be)	2022/03/31	105	75 - 125	101	80 - 120	<0.20	ug/g	1.2	30		
7913891	Acid Extractable Boron (B)	2022/03/31	91	75 - 125	97	80 - 120	<5.0	ug/g	1.6	30		
7913891	Acid Extractable Cadmium (Cd)	2022/03/31	98	75 - 125	96	80 - 120	<0.10	ug/g	6.1	30		
7913891	Acid Extractable Chromium (Cr)	2022/03/31	106	75 - 125	99	80 - 120	<1.0	ug/g	0.72	30		
7913891	Acid Extractable Cobalt (Co)	2022/03/31	102	75 - 125	99	80 - 120	<0.10	ug/g	2.2	30		
7913891	Acid Extractable Copper (Cu)	2022/03/31	NC	75 - 125	100	80 - 120	<0.50	ug/g	4.0	30		
7913891	Acid Extractable Lead (Pb)	2022/03/31	NC	75 - 125	100	80 - 120	<1.0	ug/g	11	30		
7913891	Acid Extractable Mercury (Hg)	2022/03/31	92	75 - 125	88	80 - 120	<0.050	ug/g	1.5	30		
7913891	Acid Extractable Molybdenum (Mo)	2022/03/31	103	75 - 125	101	80 - 120	<0.50	ug/g	9.0	30		
7913891	Acid Extractable Nickel (Ni)	2022/03/31	NC	75 - 125	98	80 - 120	<0.50	ug/g	3.1	30		
7913891	Acid Extractable Selenium (Se)	2022/03/31	99	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7913891	Acid Extractable Silver (Ag)	2022/03/31	104	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7913891	Acid Extractable Thallium (Tl)	2022/03/31	103	75 - 125	102	80 - 120	<0.050	ug/g	3.6	30		
7913891	Acid Extractable Uranium (U)	2022/03/31	105	75 - 125	99	80 - 120	<0.050	ug/g	0.20	30		
7913891	Acid Extractable Vanadium (V)	2022/03/31	NC	75 - 125	99	80 - 120	<5.0	ug/g	0.22	30		
7913891	Acid Extractable Zinc (Zn)	2022/03/31	NC	75 - 125	100	80 - 120	<5.0	ug/g	7.7	30		
7914072	Hot Water Ext. Boron (B)	2022/03/31	104	75 - 125	99	75 - 125	<0.050	ug/g	11	40		
7914735	Acid Extractable Antimony (Sb)	2022/04/01	89	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7914735	Acid Extractable Arsenic (As)	2022/04/01	91	75 - 125	97	80 - 120	<1.0	ug/g	2.8	30		

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

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7914735	Acid Extractable Barium (Ba)	2022/04/01	NC	75 - 125	94	80 - 120	<0.50	ug/g	1.8	30		
7914735	Acid Extractable Beryllium (Be)	2022/04/01	95	75 - 125	98	80 - 120	<0.20	ug/g	2.3	30		
7914735	Acid Extractable Boron (B)	2022/04/01	85	75 - 125	90	80 - 120	<5.0	ug/g	NC	30		
7914735	Acid Extractable Cadmium (Cd)	2022/04/01	91	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
7914735	Acid Extractable Chromium (Cr)	2022/04/01	92	75 - 125	100	80 - 120	<1.0	ug/g	3.2	30		
7914735	Acid Extractable Cobalt (Co)	2022/04/01	93	75 - 125	100	80 - 120	<0.10	ug/g	0.38	30		
7914735	Acid Extractable Copper (Cu)	2022/04/01	93	75 - 125	97	80 - 120	<0.50	ug/g	2.1	30		
7914735	Acid Extractable Lead (Pb)	2022/04/01	NC	75 - 125	101	80 - 120	<1.0	ug/g	1.6	30		
7914735	Acid Extractable Mercury (Hg)	2022/04/01	82	75 - 125	92	80 - 120	<0.050	ug/g	NC	30		
7914735	Acid Extractable Molybdenum (Mo)	2022/04/01	93	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7914735	Acid Extractable Nickel (Ni)	2022/04/01	94	75 - 125	101	80 - 120	<0.50	ug/g	0.54	30		
7914735	Acid Extractable Selenium (Se)	2022/04/01	94	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7914735	Acid Extractable Silver (Ag)	2022/04/01	96	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7914735	Acid Extractable Thallium (Tl)	2022/04/01	96	75 - 125	103	80 - 120	<0.050	ug/g	NC	30		
7914735	Acid Extractable Uranium (U)	2022/04/01	96	75 - 125	101	80 - 120	<0.050	ug/g	20	30		
7914735	Acid Extractable Vanadium (V)	2022/04/01	94	75 - 125	99	80 - 120	<5.0	ug/g	2.0	30		
7914735	Acid Extractable Zinc (Zn)	2022/04/01	NC	75 - 125	94	80 - 120	<5.0	ug/g	29	30		
7915999	F2 (C10-C16 Hydrocarbons)	2022/04/01	105	60 - 130	104	80 - 120	<10	ug/g	NC	30		
7915999	F3 (C16-C34 Hydrocarbons)	2022/04/01	110	60 - 130	103	80 - 120	<50	ug/g	NC	30		
7915999	F4 (C34-C50 Hydrocarbons)	2022/04/01	112	60 - 130	113	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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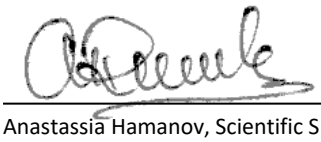
VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

28-Mar-22 16:03
Kudrat Bajwa
C281316

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C21481 RJM ENV-1133	Bottle Order #: 871281
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:		
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.01	
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	Grand Niagara RSC 1	COC #: C#871281-01-01
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:		Project Manager: Kudrat Bajwa
				Sampled By:	AP	

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): ☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals and Inorganics	BTEX/F1-F4 PHCs	EC/SAR	# of Bottles	Comments
1		1-BH201-1	March 24/22	10:00	S	X			1	
2		1-BH201-3B		15:10			X	X	3	
3		1-BH201-4		15:22					3	ON HOLD
4		1-BH202-1		16:20		X	X		3	Limited sample volume
5		1-BH202-4		16:29				X	4	Please put 2 vials and 1, 250mL jar on hold
6		1-BH203-1		17:02		X			1	
7		1-BH203-4		17:21			X	X	3	
8		1-BH204-1		17:45		X	X		3	
9		1-BH204-4		17:52				X	1	
10		1-BH205-1		18:00		X			1	Limited sample volume

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Pomiak AP	22/03/25	15:49	Kavitha Selvan CA	2022/03/28	16:03	0

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 1/0/1.3 | Custody Seal: Present / Intact | 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C21481	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			871281
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.01	COC #:	Project Manager:
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	Grand Niagara RSC 1	C#871281-02-01	Kudrat Bajwa
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	AP		

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)
- ☐ Table 1 ☒ Res/Park ☒ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☒ For RSC
- ☒ Table 5

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality
- ☐ PWQO ☐ Reg 406 Table
- ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Metals and Inorganics	BTEX/F1-F4 PHCs	EC/SAR							# of Bottles	Comments
1		1-BH205-4	March 24/22	18:00	S	-		X	X							3	
2		1-BH205-94	March 24/22	18:07	S	-		X	X							3	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak AP	22/03/25	15:49				0

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

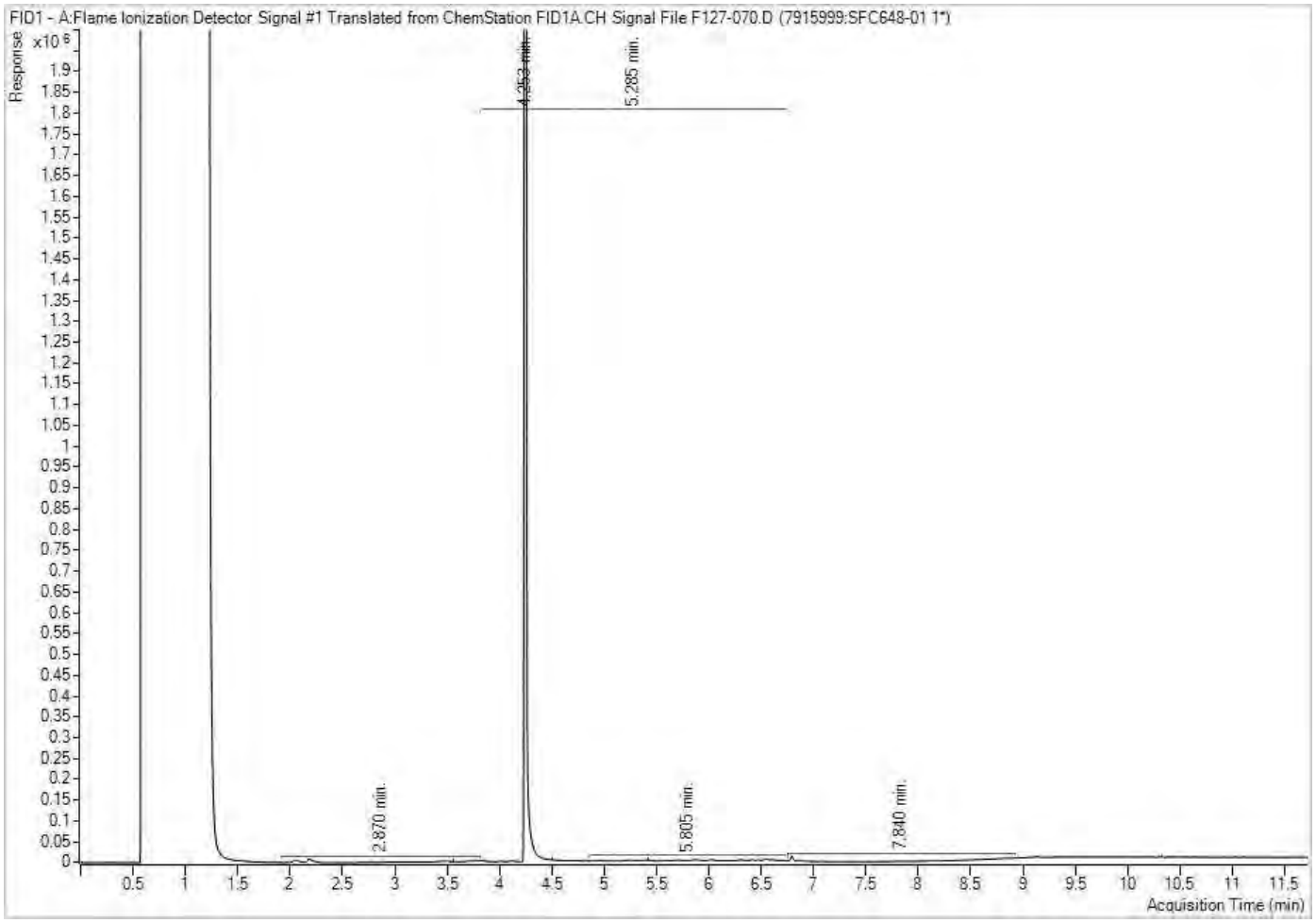
White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C281316
Report Date: 2022/04/27
Bureau Veritas Sample: SFC648

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH202-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

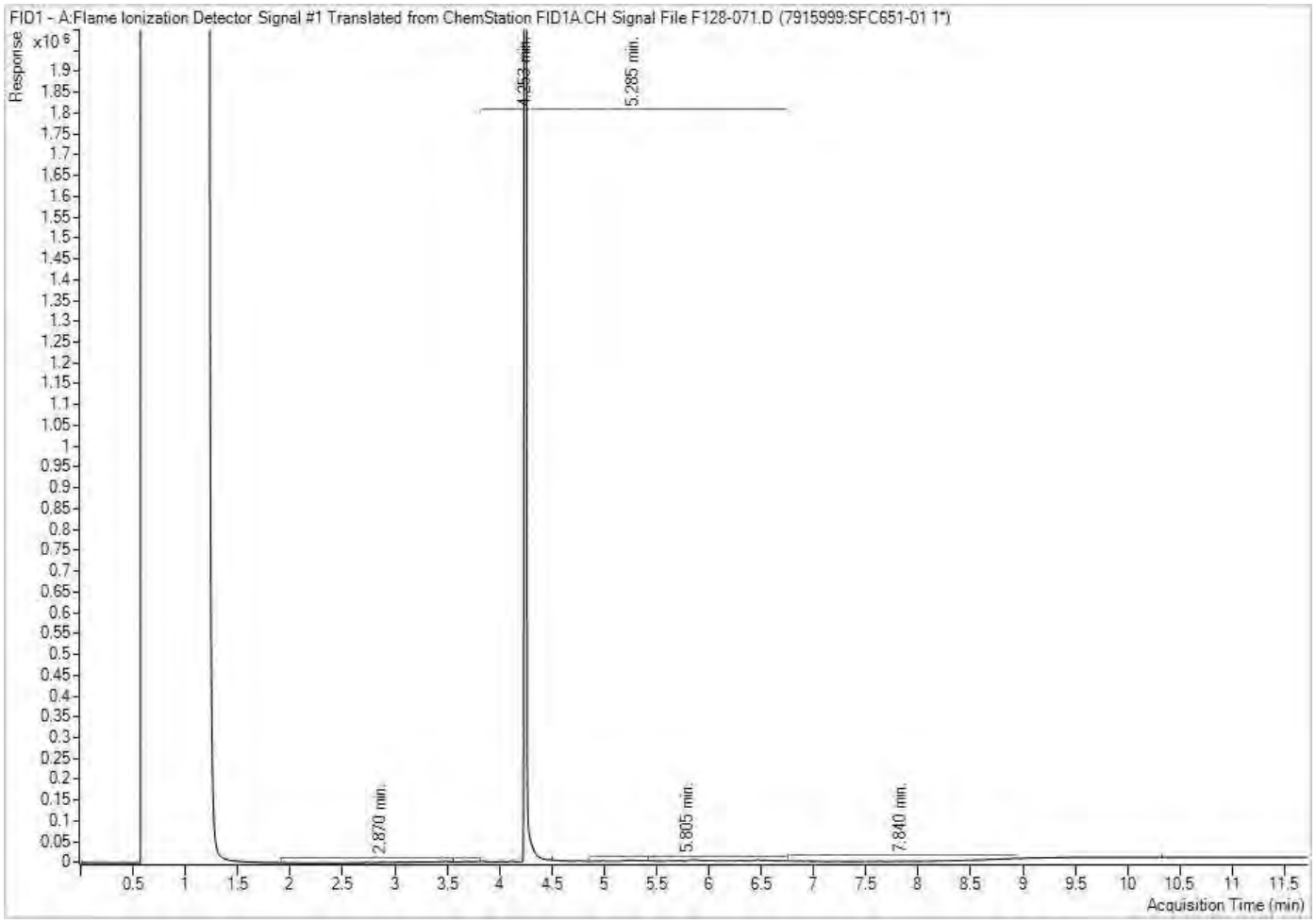


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/04/27
Bureau Veritas Sample: SFC651

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH203-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

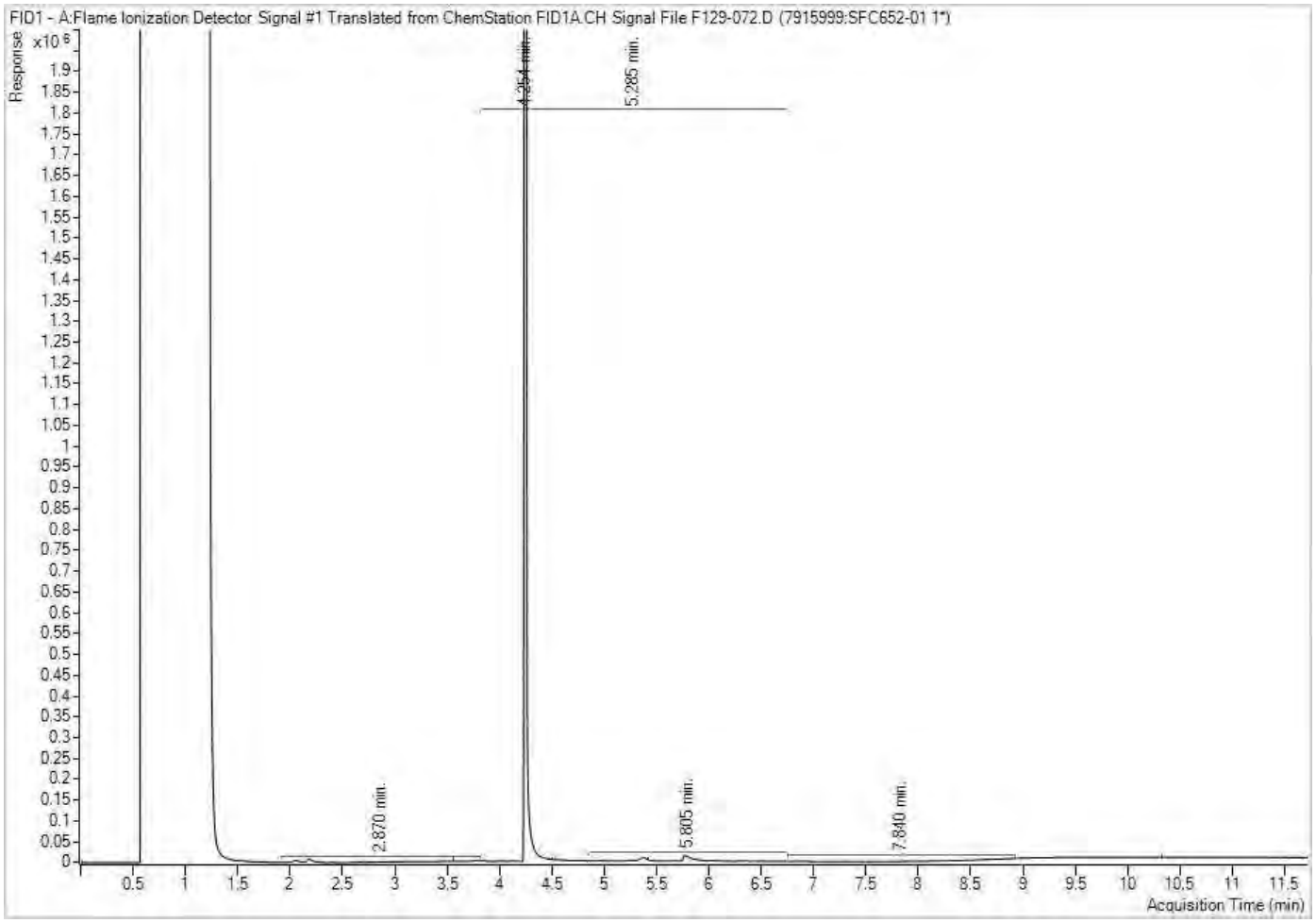


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/04/27
Bureau Veritas Sample: SFC652

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH204-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

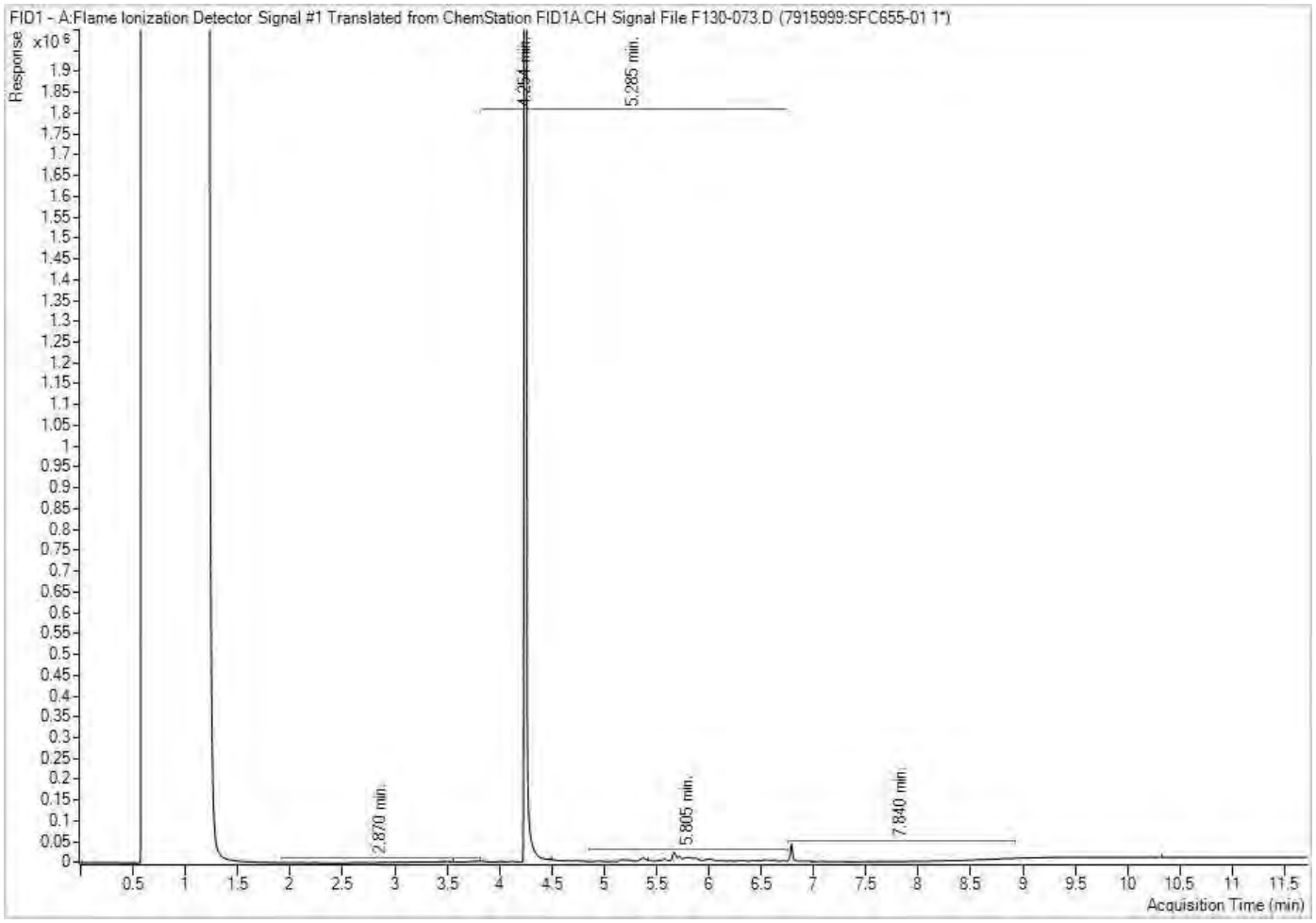


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/04/27
Bureau Veritas Sample: SFC655

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH205-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

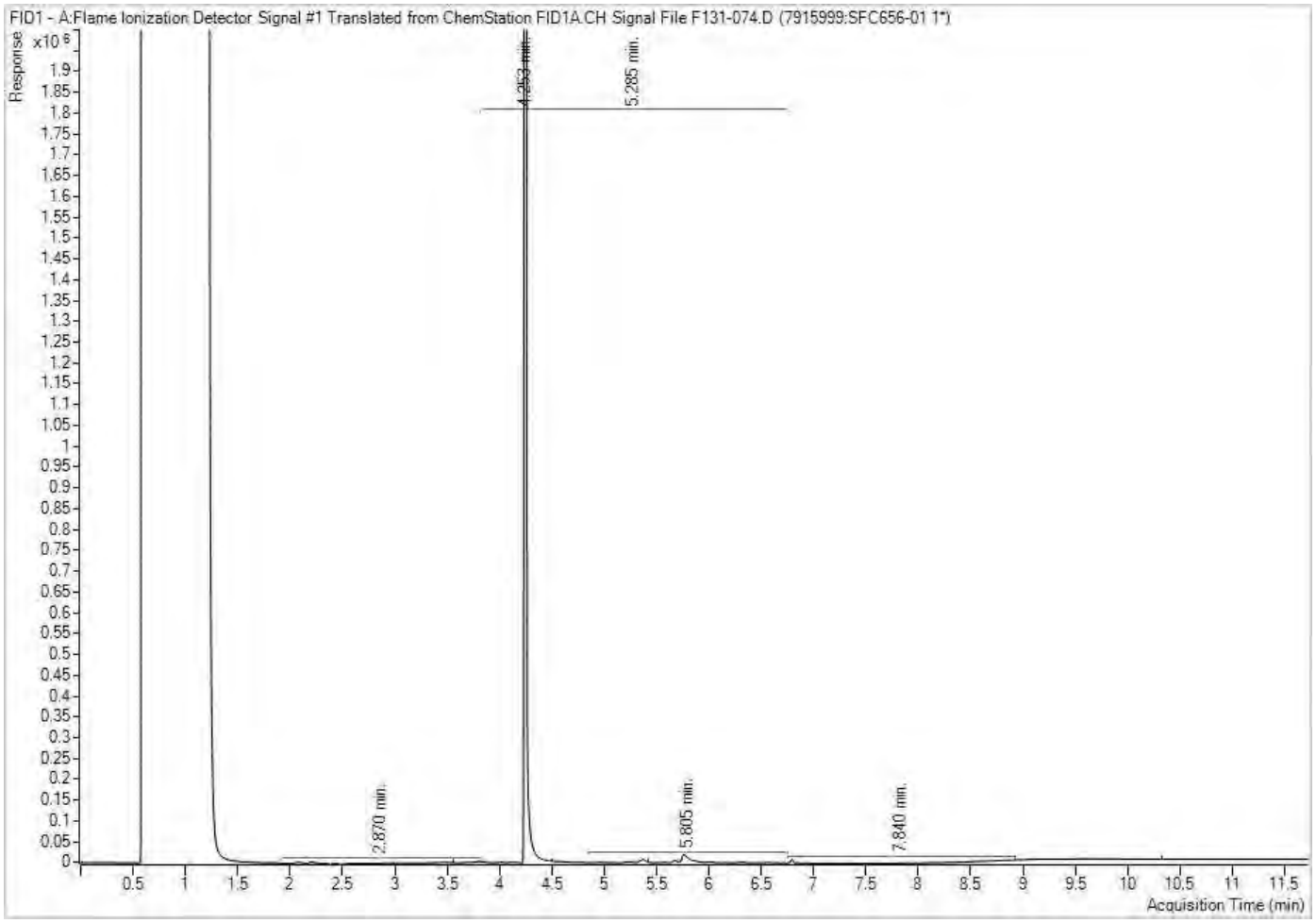


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/04/27
Bureau Veritas Sample: SFC656

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH205-94

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 871281-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128217
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C281316
Received: 2022/03/28, 16:03

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	5	2022/03/31	2022/03/31	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2022/03/31	2022/04/01	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	4	2022/03/30	2022/03/30	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	7	2022/03/31	2022/03/31	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	5	2022/03/30	2022/03/31	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	6	N/A	2022/03/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	6	2022/03/31	2022/04/01	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	2	2022/03/31	2022/03/31	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/03/31	2022/04/01	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	9	N/A	2022/03/29	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	5	2022/03/31	2022/03/31	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	9	N/A	2022/03/31	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/01	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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 871281-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128217
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C281316
Received: 2022/03/28, 16:03

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.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFC645			SFC645			SFC648		
Sampling Date		2022/03/24 10:00			2022/03/24 10:00			2022/03/24 16:20		
COC Number		871281-01-01			871281-01-01			871281-01-01		
	UNITS	1-BH201-1	RDL	QC Batch	1-BH201-1 Lab-Dup	RDL	QC Batch	1-BH202-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.45		7908111				0.57		7908111
Inorganics										
Conductivity	mS/cm	0.49	0.002	7912416				0.76	0.002	7913854
Moisture	%	22	1.0	7909364						
Available (CaCl2) pH	pH	7.67		7913788				7.29		7913788
WAD Cyanide (Free)	ug/g	<0.01	0.01	7913802				<0.01	0.01	7913802
Chromium (VI)	ug/g	0.22	0.18	7911709				<0.18	0.18	7911709
Metals										
Hot Water Ext. Boron (B)	ug/g	0.17	0.050	7914072	0.19	0.050	7914072	0.19	0.050	7914072
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7914735				0.31	0.20	7913891
Acid Extractable Arsenic (As)	ug/g	5.4	1.0	7914735				5.3	1.0	7913891
Acid Extractable Barium (Ba)	ug/g	120	0.50	7914735				86	0.50	7913891
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7914735				0.86	0.20	7913891
Acid Extractable Boron (B)	ug/g	5.1	5.0	7914735				<5.0	5.0	7913891
Acid Extractable Cadmium (Cd)	ug/g	0.18	0.10	7914735				0.19	0.10	7913891
Acid Extractable Chromium (Cr)	ug/g	31	1.0	7914735				30	1.0	7913891
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7914735				13	0.10	7913891
Acid Extractable Copper (Cu)	ug/g	21	0.50	7914735				19	0.50	7913891
Acid Extractable Lead (Pb)	ug/g	18	1.0	7914735				18	1.0	7913891
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.50	7914735				1.3	0.50	7913891
Acid Extractable Nickel (Ni)	ug/g	31	0.50	7914735				25	0.50	7913891
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7914735				<0.50	0.50	7913891
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7914735				0.28	0.20	7913891
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7914735				0.17	0.050	7913891
Acid Extractable Uranium (U)	ug/g	0.89	0.050	7914735				0.89	0.050	7913891
Acid Extractable Vanadium (V)	ug/g	43	5.0	7914735				40	5.0	7913891
Acid Extractable Zinc (Zn)	ug/g	78	5.0	7914735				75	5.0	7913891
Acid Extractable Mercury (Hg)	ug/g	0.053	0.050	7914735				0.083	0.050	7913891

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFC649			SFC649			SFC650		
Sampling Date		2022/03/24 16:29			2022/03/24 16:29			2022/03/24 17:02		
COC Number		871281-01-01			871281-01-01			871281-01-01		
	UNITS	1-BH202-4	RDL	QC Batch	1-BH202-4 Lab-Dup	RDL	QC Batch	1-BH203-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A							0.29 (1)		7908111
Inorganics										
Conductivity	mS/cm							0.13	0.002	7912416
Moisture	%	18	1.0	7986740	18	1.0	7986740	8.0	1.0	7909364
Available (CaCl2) pH	pH	7.70		7994248				7.80		7913805
WAD Cyanide (Free)	ug/g	<0.01	0.01	7993299				<0.01	0.01	7913802
Chromium (VI)	ug/g	<0.18	0.18	7993758				<0.18	0.18	7911709
Metals										
Hot Water Ext. Boron (B)	ug/g	0.098	0.050	7990894				0.057	0.050	7914072
Acid Extractable Antimony (Sb)	ug/g	0.22	0.20	7990745				<0.20	0.20	7914735
Acid Extractable Arsenic (As)	ug/g	5.6	1.0	7990745				1.0	1.0	7914735
Acid Extractable Barium (Ba)	ug/g	190	0.50	7990745				7.9	0.50	7914735
Acid Extractable Beryllium (Be)	ug/g	1.5	0.20	7990745				<0.20	0.20	7914735
Acid Extractable Boron (B)	ug/g	9.1	5.0	7990745				<5.0	5.0	7914735
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7990745				<0.10	0.10	7914735
Acid Extractable Chromium (Cr)	ug/g	40	1.0	7990745				3.6	1.0	7914735
Acid Extractable Cobalt (Co)	ug/g	19	0.10	7990745				1.4	0.10	7914735
Acid Extractable Copper (Cu)	ug/g	30	0.50	7990745				6.2	0.50	7914735
Acid Extractable Lead (Pb)	ug/g	15	1.0	7990745				26	1.0	7914735
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7990745				<0.50	0.50	7914735
Acid Extractable Nickel (Ni)	ug/g	44	0.50	7990745				2.9	0.50	7914735
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7990745				<0.50	0.50	7914735
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7990745				<0.20	0.20	7914735
Acid Extractable Thallium (Tl)	ug/g	0.20	0.050	7990745				<0.050	0.050	7914735
Acid Extractable Uranium (U)	ug/g	1.1	0.050	7990745				0.22	0.050	7914735
Acid Extractable Vanadium (V)	ug/g	53	5.0	7990745				7.6	5.0	7914735
Acid Extractable Zinc (Zn)	ug/g	84	5.0	7990745				14	5.0	7914735
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7990745				<0.050	0.050	7914735

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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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFC652			SFC654		
Sampling Date		2022/03/24 17:45			2022/03/24 17:18		
COC Number		871281-01-01			871281-01-01		
	UNITS	1-BH204-1	RDL	QC Batch	1-BH205-1	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.35		7908111	0.31 (1)		7908111
Inorganics							
Conductivity	mS/cm	0.34	0.002	7913854	0.11	0.002	7912416
Moisture	%				7.2	1.0	7909364
Available (CaCl2) pH	pH	7.58		7913788	7.90		7913805
WAD Cyanide (Free)	ug/g	<0.01	0.01	7913802	<0.01	0.01	7913802
Chromium (VI)	ug/g	<0.18	0.18	7911709	<0.18	0.18	7911709
Metals							
Hot Water Ext. Boron (B)	ug/g	0.14	0.050	7914072	0.064	0.050	7914072
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Arsenic (As)	ug/g	4.2	1.0	7914735	1.3	1.0	7913790
Acid Extractable Barium (Ba)	ug/g	100	0.50	7914735	9.3	0.50	7913790
Acid Extractable Beryllium (Be)	ug/g	0.82	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Boron (B)	ug/g	5.9	5.0	7914735	<5.0	5.0	7913790
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7914735	<0.10	0.10	7913790
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7914735	5.3	1.0	7913790
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7914735	2.1	0.10	7913790
Acid Extractable Copper (Cu)	ug/g	21	0.50	7914735	8.3	0.50	7913790
Acid Extractable Lead (Pb)	ug/g	13	1.0	7914735	5.0	1.0	7913790
Acid Extractable Molybdenum (Mo)	ug/g	0.65	0.50	7914735	<0.50	0.50	7913790
Acid Extractable Nickel (Ni)	ug/g	28	0.50	7914735	4.2	0.50	7913790
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7914735	<0.50	0.50	7913790
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7914735	<0.20	0.20	7913790
Acid Extractable Thallium (Tl)	ug/g	0.14	0.050	7914735	<0.050	0.050	7913790
Acid Extractable Uranium (U)	ug/g	0.84	0.050	7914735	0.31	0.050	7913790
Acid Extractable Vanadium (V)	ug/g	34	5.0	7914735	13	5.0	7913790
Acid Extractable Zinc (Zn)	ug/g	61	5.0	7914735	25	5.0	7913790
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7914735	<0.050	0.050	7913790

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 #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

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

Bureau Veritas ID		SFC646	SFC648	SFC651	SFC652	SFC655	SFC656		
Sampling Date		2022/03/24 15:10	2022/03/24 16:20	2022/03/24 17:21	2022/03/24 17:45	2022/03/24 18:00	2022/03/24 18:07		
COC Number		871281-01-01	871281-01-01	871281-01-01	871281-01-01	871281-01-01	871281-01-01		
	UNITS	**1-BH201-3B**	**1-BH202-1**	**1-BH203-4**	**1-BH204-1**	**1-BH205-4**	**1-BH205-94**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	20	21	22	17	19	8.0	1.0	7909040
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7911948
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7911948
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7911948
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	<10	10	7911948
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	<10	10	7911948
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	7915999
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	7915999
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	7915999
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes		7915999
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	101	102	107	101	99	102		7911948
4-Bromofluorobenzene	%	100	100	100	105	101	100		7911948
D10-o-Xylene	%	95	98	102	90	92	92		7911948
D4-1,2-Dichloroethane	%	98	99	106	94	96	93		7911948
o-Terphenyl	%	102	94	97	102	103	103		7915999

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SFC646			SFC649	SFC651			SFC653		
Sampling Date		2022/03/24 15:10			2022/03/24 16:29	2022/03/24 17:21			2022/03/24 17:52		
COC Number		871281-01-01			871281-01-01	871281-01-01			871281-01-01		
	UNITS	1-BH201-3B	RDL	QC Batch	1-BH202-4	1-BH203-4	RDL	QC Batch	1-BH204-4	RDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.44		7908111	0.82	0.55		7908111	0.21		7908111
Inorganics											
Conductivity	mS/cm	3.3	0.002	7913712	3.3	1.2	0.002	7913854	0.31	0.002	7912416
Miscellaneous Parameters											
Grain Size	%	FINE	N/A	7952276					FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	96	1	7952276					82	1	7952276
Sieve - #200 (>0.075mm)	%	4	1	7952276					18	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SFC655		SFC656		
Sampling Date		2022/03/24 18:00		2022/03/24 18:07		
COC Number		871281-01-01		871281-01-01		
	UNITS	1-BH205-4	QC Batch	1-BH205-94	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.28	7908111	0.46		7908111
Inorganics						
Conductivity	mS/cm	0.41	7913712	0.39	0.002	7913854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC645
Sample ID: 1-BH201-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC645 Dup
Sample ID: 1-BH201-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John

Bureau Veritas ID: SFC646
Sample ID: 1-BH201-3B
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913712	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/04/01	Automated Statchk

Bureau Veritas ID: SFC648
Sample ID: 1-BH202-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7913891	2022/03/31	2022/03/31	Daniel Teclu
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC649
Sample ID: 1-BH202-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990745	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC649 Dup
Sample ID: 1-BH202-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles

Bureau Veritas ID: SFC650
Sample ID: 1-BH203-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913805	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC651
Sample ID: 1-BH203-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC652
Sample ID: 1-BH204-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7914735	2022/03/31	2022/04/01	Daniel Teclu
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7913788	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC653
Sample ID: 1-BH204-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC654
Sample ID: 1-BH205-1
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7914072	2022/03/31	2022/03/31	Jolly John
Free (WAD) Cyanide	TECH	7913802	2022/03/31	2022/04/01	Aditiben Patel
Conductivity	AT	7912416	2022/03/30	2022/03/30	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7911709	2022/03/30	2022/03/31	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7913790	2022/03/31	2022/03/31	Daniel Teclu
Moisture	BAL	7909364	N/A	2022/03/29	Simrat Bhathal
pH CaCl2 EXTRACT	AT	7913805	2022/03/31	2022/03/31	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

Bureau Veritas ID: SFC655
Sample ID: 1-BH205-4
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913712	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/04/01	Automated Statchk

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Bureau Veritas Job #: C281316
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFC656
Sample ID: 1-BH205-94
Matrix: Soil

Collected: 2022/03/24
Shipped:
Received: 2022/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7913854	2022/03/31	2022/03/31	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7911948	N/A	2022/03/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7915999	2022/03/31	2022/04/01	(Kent) Maolin Li
Moisture	BAL	7909040	N/A	2022/03/29	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7908111	N/A	2022/03/31	Automated Statchk

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GENERAL COMMENTS

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

Package 1	1.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 1-BH201-3B and 1-BH204-4 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7911948	1,4-Difluorobenzene	2022/03/30	97	60 - 140	101	60 - 140	101	%				
7911948	4-Bromofluorobenzene	2022/03/30	100	60 - 140	104	60 - 140	100	%				
7911948	D10-o-Xylene	2022/03/30	97	60 - 140	105	60 - 140	93	%				
7911948	D4-1,2-Dichloroethane	2022/03/30	97	60 - 140	99	60 - 140	99	%				
7915999	o-Terphenyl	2022/04/01	104	60 - 130	107	60 - 130	108	%				
7909040	Moisture	2022/03/29							2.5	20		
7911709	Chromium (VI)	2022/03/31	71	70 - 130	89	80 - 120	<0.18	ug/g	0.97	35		
7911948	Benzene	2022/03/30	95	50 - 140	108	50 - 140	<0.020	ug/g	NC	50		
7911948	Ethylbenzene	2022/03/30	109	50 - 140	115	50 - 140	<0.020	ug/g	NC	50		
7911948	F1 (C6-C10) - BTEX	2022/03/30					<10	ug/g	NC	30		
7911948	F1 (C6-C10)	2022/03/30	80	60 - 140	93	80 - 120	<10	ug/g	NC	30		
7911948	o-Xylene	2022/03/30	105	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7911948	p+m-Xylene	2022/03/30	109	50 - 140	115	50 - 140	<0.040	ug/g	NC	50		
7911948	Toluene	2022/03/30	91	50 - 140	100	50 - 140	<0.020	ug/g	NC	50		
7911948	Total Xylenes	2022/03/30					<0.040	ug/g	NC	50		
7912416	Conductivity	2022/03/30			100	90 - 110	<0.002	mS/cm	0.41	10		
7913712	Conductivity	2022/03/31			99	90 - 110	<0.002	mS/cm	1.2	10		
7913788	Available (CaCl2) pH	2022/03/31			100	97 - 103			0.031	N/A		
7913790	Acid Extractable Antimony (Sb)	2022/03/31	112	75 - 125	104	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Arsenic (As)	2022/03/31	103	75 - 125	99	80 - 120	<1.0	ug/g	NC	30		
7913790	Acid Extractable Barium (Ba)	2022/03/31	104	75 - 125	101	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Beryllium (Be)	2022/03/31	112	75 - 125	103	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Boron (B)	2022/03/31	104	75 - 125	97	80 - 120	<5.0	ug/g				
7913790	Acid Extractable Cadmium (Cd)	2022/03/31	107	75 - 125	97	80 - 120	<0.10	ug/g				
7913790	Acid Extractable Chromium (Cr)	2022/03/31	108	75 - 125	103	80 - 120	<1.0	ug/g				
7913790	Acid Extractable Cobalt (Co)	2022/03/31	106	75 - 125	102	80 - 120	<0.10	ug/g				
7913790	Acid Extractable Copper (Cu)	2022/03/31	105	75 - 125	98	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Lead (Pb)	2022/03/31	107	75 - 125	103	80 - 120	<1.0	ug/g				
7913790	Acid Extractable Mercury (Hg)	2022/03/31	94	75 - 125	94	80 - 120	<0.050	ug/g				
7913790	Acid Extractable Molybdenum (Mo)	2022/03/31	110	75 - 125	100	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Nickel (Ni)	2022/03/31	106	75 - 125	100	80 - 120	<0.50	ug/g				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7913790	Acid Extractable Selenium (Se)	2022/03/31	101	75 - 125	94	80 - 120	<0.50	ug/g				
7913790	Acid Extractable Silver (Ag)	2022/03/31	109	75 - 125	101	80 - 120	<0.20	ug/g				
7913790	Acid Extractable Thallium (Tl)	2022/03/31	108	75 - 125	104	80 - 120	<0.050	ug/g				
7913790	Acid Extractable Uranium (U)	2022/03/31	107	75 - 125	102	80 - 120	<0.050	ug/g	3.5	30		
7913790	Acid Extractable Vanadium (V)	2022/03/31	112	75 - 125	98	80 - 120	<5.0	ug/g				
7913790	Acid Extractable Zinc (Zn)	2022/03/31	110	75 - 125	102	80 - 120	<5.0	ug/g				
7913802	WAD Cyanide (Free)	2022/04/01	85	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		
7913805	Available (CaCl2) pH	2022/03/31			100	97 - 103			0.27	N/A		
7913854	Conductivity	2022/03/31			99	90 - 110	<0.002	mS/cm	0.62	10		
7913891	Acid Extractable Antimony (Sb)	2022/03/31	93	75 - 125	100	80 - 120	<0.20	ug/g	3.7	30		
7913891	Acid Extractable Arsenic (As)	2022/03/31	103	75 - 125	99	80 - 120	<1.0	ug/g	1.4	30		
7913891	Acid Extractable Barium (Ba)	2022/03/31	NC	75 - 125	99	80 - 120	<0.50	ug/g	0.80	30		
7913891	Acid Extractable Beryllium (Be)	2022/03/31	105	75 - 125	101	80 - 120	<0.20	ug/g	1.2	30		
7913891	Acid Extractable Boron (B)	2022/03/31	91	75 - 125	97	80 - 120	<5.0	ug/g	1.6	30		
7913891	Acid Extractable Cadmium (Cd)	2022/03/31	98	75 - 125	96	80 - 120	<0.10	ug/g	6.1	30		
7913891	Acid Extractable Chromium (Cr)	2022/03/31	106	75 - 125	99	80 - 120	<1.0	ug/g	0.72	30		
7913891	Acid Extractable Cobalt (Co)	2022/03/31	102	75 - 125	99	80 - 120	<0.10	ug/g	2.2	30		
7913891	Acid Extractable Copper (Cu)	2022/03/31	NC	75 - 125	100	80 - 120	<0.50	ug/g	4.0	30		
7913891	Acid Extractable Lead (Pb)	2022/03/31	NC	75 - 125	100	80 - 120	<1.0	ug/g	11	30		
7913891	Acid Extractable Mercury (Hg)	2022/03/31	92	75 - 125	88	80 - 120	<0.050	ug/g	1.5	30		
7913891	Acid Extractable Molybdenum (Mo)	2022/03/31	103	75 - 125	101	80 - 120	<0.50	ug/g	9.0	30		
7913891	Acid Extractable Nickel (Ni)	2022/03/31	NC	75 - 125	98	80 - 120	<0.50	ug/g	3.1	30		
7913891	Acid Extractable Selenium (Se)	2022/03/31	99	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7913891	Acid Extractable Silver (Ag)	2022/03/31	104	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7913891	Acid Extractable Thallium (Tl)	2022/03/31	103	75 - 125	102	80 - 120	<0.050	ug/g	3.6	30		
7913891	Acid Extractable Uranium (U)	2022/03/31	105	75 - 125	99	80 - 120	<0.050	ug/g	0.20	30		
7913891	Acid Extractable Vanadium (V)	2022/03/31	NC	75 - 125	99	80 - 120	<5.0	ug/g	0.22	30		
7913891	Acid Extractable Zinc (Zn)	2022/03/31	NC	75 - 125	100	80 - 120	<5.0	ug/g	7.7	30		
7914072	Hot Water Ext. Boron (B)	2022/03/31	104	75 - 125	99	75 - 125	<0.050	ug/g	11	40		
7914735	Acid Extractable Antimony (Sb)	2022/04/01	89	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7914735	Acid Extractable Arsenic (As)	2022/04/01	91	75 - 125	97	80 - 120	<1.0	ug/g	2.8	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7914735	Acid Extractable Barium (Ba)	2022/04/01	NC	75 - 125	94	80 - 120	<0.50	ug/g	1.8	30		
7914735	Acid Extractable Beryllium (Be)	2022/04/01	95	75 - 125	98	80 - 120	<0.20	ug/g	2.3	30		
7914735	Acid Extractable Boron (B)	2022/04/01	85	75 - 125	90	80 - 120	<5.0	ug/g	NC	30		
7914735	Acid Extractable Cadmium (Cd)	2022/04/01	91	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
7914735	Acid Extractable Chromium (Cr)	2022/04/01	92	75 - 125	100	80 - 120	<1.0	ug/g	3.2	30		
7914735	Acid Extractable Cobalt (Co)	2022/04/01	93	75 - 125	100	80 - 120	<0.10	ug/g	0.38	30		
7914735	Acid Extractable Copper (Cu)	2022/04/01	93	75 - 125	97	80 - 120	<0.50	ug/g	2.1	30		
7914735	Acid Extractable Lead (Pb)	2022/04/01	NC	75 - 125	101	80 - 120	<1.0	ug/g	1.6	30		
7914735	Acid Extractable Mercury (Hg)	2022/04/01	82	75 - 125	92	80 - 120	<0.050	ug/g	NC	30		
7914735	Acid Extractable Molybdenum (Mo)	2022/04/01	93	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7914735	Acid Extractable Nickel (Ni)	2022/04/01	94	75 - 125	101	80 - 120	<0.50	ug/g	0.54	30		
7914735	Acid Extractable Selenium (Se)	2022/04/01	94	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7914735	Acid Extractable Silver (Ag)	2022/04/01	96	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7914735	Acid Extractable Thallium (Tl)	2022/04/01	96	75 - 125	103	80 - 120	<0.050	ug/g	NC	30		
7914735	Acid Extractable Uranium (U)	2022/04/01	96	75 - 125	101	80 - 120	<0.050	ug/g	20	30		
7914735	Acid Extractable Vanadium (V)	2022/04/01	94	75 - 125	99	80 - 120	<5.0	ug/g	2.0	30		
7914735	Acid Extractable Zinc (Zn)	2022/04/01	NC	75 - 125	94	80 - 120	<5.0	ug/g	29	30		
7915999	F2 (C10-C16 Hydrocarbons)	2022/04/01	105	60 - 130	104	80 - 120	<10	ug/g	NC	30		
7915999	F3 (C16-C34 Hydrocarbons)	2022/04/01	110	60 - 130	103	80 - 120	<50	ug/g	NC	30		
7915999	F4 (C34-C50 Hydrocarbons)	2022/04/01	112	60 - 130	113	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7986740	Moisture	2022/05/10							1.7	20		
7990745	Acid Extractable Antimony (Sb)	2022/05/13	94	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7990745	Acid Extractable Arsenic (As)	2022/05/13	101	75 - 125	104	80 - 120	<1.0	ug/g	7.2	30		
7990745	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	2.5	30		
7990745	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	105	80 - 120	<0.20	ug/g	6.2	30		
7990745	Acid Extractable Boron (B)	2022/05/13	95	75 - 125	101	80 - 120	<5.0	ug/g	8.4	30		
7990745	Acid Extractable Cadmium (Cd)	2022/05/13	101	75 - 125	99	80 - 120	<0.10	ug/g	NC	30		
7990745	Acid Extractable Chromium (Cr)	2022/05/13	NC	75 - 125	106	80 - 120	<1.0	ug/g	6.9	30		
7990745	Acid Extractable Cobalt (Co)	2022/05/13	100	75 - 125	104	80 - 120	<0.10	ug/g	7.6	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7990745	Acid Extractable Copper (Cu)	2022/05/13	90	75 - 125	102	80 - 120	<0.50	ug/g	4.9	30		
7990745	Acid Extractable Lead (Pb)	2022/05/13	100	75 - 125	107	80 - 120	<1.0	ug/g	6.4	30		
7990745	Acid Extractable Mercury (Hg)	2022/05/13	91	75 - 125	93	80 - 120	<0.050	ug/g				
7990745	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7990745	Acid Extractable Nickel (Ni)	2022/05/13	97	75 - 125	104	80 - 120	<0.50	ug/g	5.0	30		
7990745	Acid Extractable Selenium (Se)	2022/05/13	101	75 - 125	104	80 - 120	<0.50	ug/g	NC	30		
7990745	Acid Extractable Silver (Ag)	2022/05/13	104	75 - 125	104	80 - 120	<0.20	ug/g	NC	30		
7990745	Acid Extractable Thallium (Tl)	2022/05/13	104	75 - 125	105	80 - 120	<0.050	ug/g	11	30		
7990745	Acid Extractable Uranium (U)	2022/05/13	106	75 - 125	107	80 - 120	<0.050	ug/g	9.2	30		
7990745	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	104	80 - 120	<5.0	ug/g	8.2	30		
7990745	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	101	80 - 120	<5.0	ug/g	2.2	30		
7990894	Hot Water Ext. Boron (B)	2022/05/13	104	75 - 125	93	75 - 125	<0.050	ug/g	5.2	40		
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
7993758	Chromium (VI)	2022/05/13	80	70 - 130	92	80 - 120	<0.18	ug/g	NC	35		
7994248	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.40	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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

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

28-Mar-22 16:03
Kudrat Bajwa
C281316

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C21481 RJM ENV-1133	Bottle Order #: 871281
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:		
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.01	
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	Grand Niagara RSC 1	COC #: C#871281-01-01
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:		Project Manager: Kudrat Bajwa
				Sampled By:	AP	

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): ☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Metals and Inorganics	BTEX/F1-F4 PHCs	EC/SAR	# of Bottles	Comments
1		1-BH201-1	March 24/22	10:00	S	-	X			1	
2		1-BH201-3B		15:10		-		X	X	3	
3		1-BH201-4		15:22		-				3	ON HOLD
4		1-BH202-1		16:20		-	X	X		3	Limited sample volume
5		1-BH202-4		16:29		-			X	4	Please put 2 vials and 1, 250mL jar on hold
6		1-BH203-1		17:02		-	X			1	
7		1-BH203-4		17:21		-		X	X	3	
8		1-BH204-1		17:45		-	X	X		3	
9		1-BH204-4		17:52		-			X	1	
10		1-BH205-1		18:00		-	X			1	Limited sample volume

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Pomiak AP	22/03/25	15:49	Kavitha Selvan CA	2022/03/28	16:03	0

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 1/0/1.3 | Custody Seal: Present / Intact | 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:		Quotation #:	C21481	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			871281
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	CT3243.01	COC #:	Project Manager:
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	Grand Niagara RSC 1	C#871281-02-01	Kudrat Bajwa
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	AP		

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)
- ☐ Table 1 ☒ Res/Park ☒ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☒ For RSC
- ☒ Table 5

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality
- ☐ PWQO ☐ Reg 406 Table
- ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Metals and Inorganics	BTEX/F1-F4 PHCs	EC/SAR	# of Bottles	Comments
1		1-BH205-4	March 24/22	18:00	S	—		X	X	3	
2		1-BH205-94	March 24/22	18:07	S	—		X	X	3	
3											
4											
5											
6											
7											
8											
9											
10											

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak AP	22/03/25	15:49				0

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

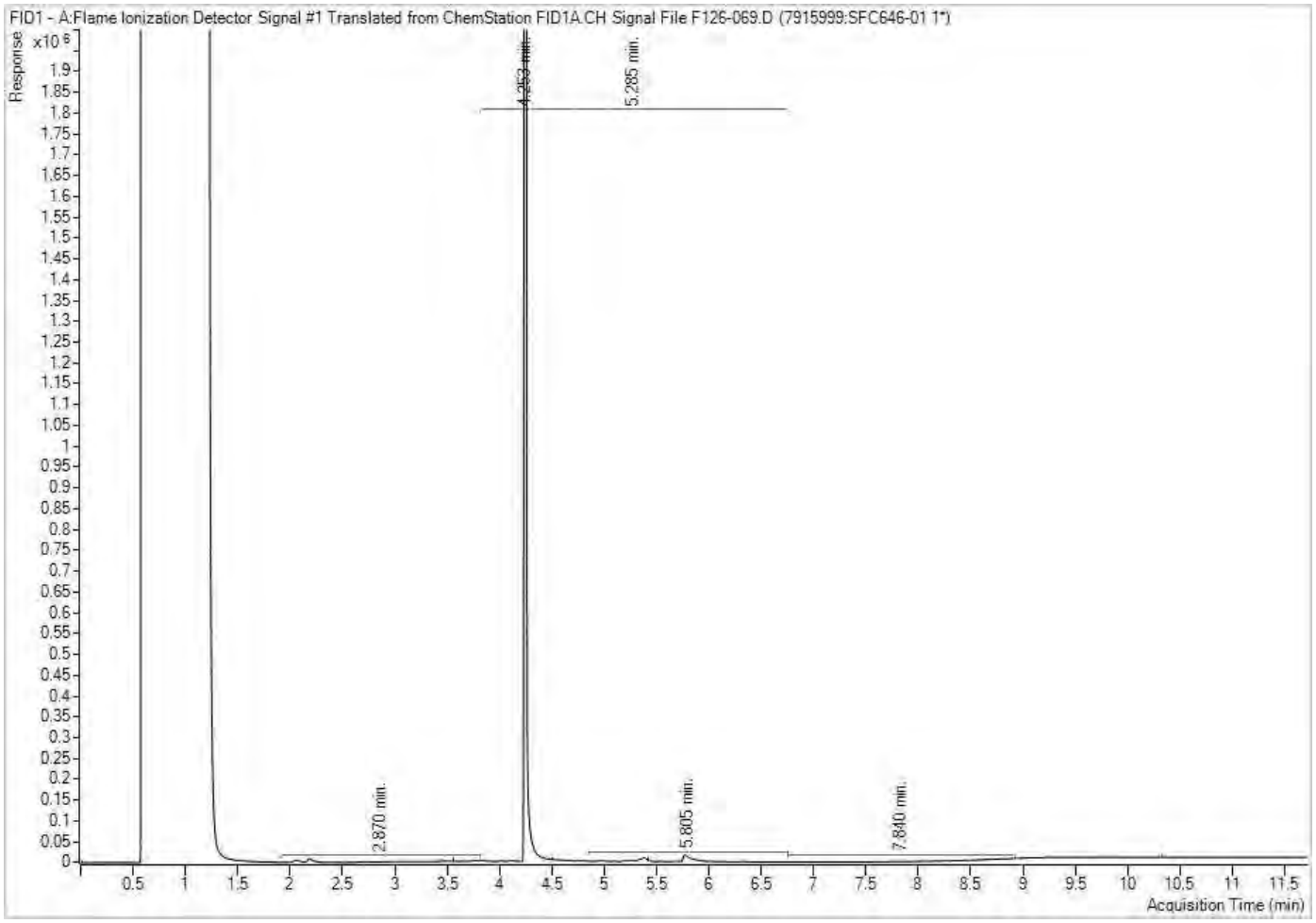
White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC646

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH201-3B

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

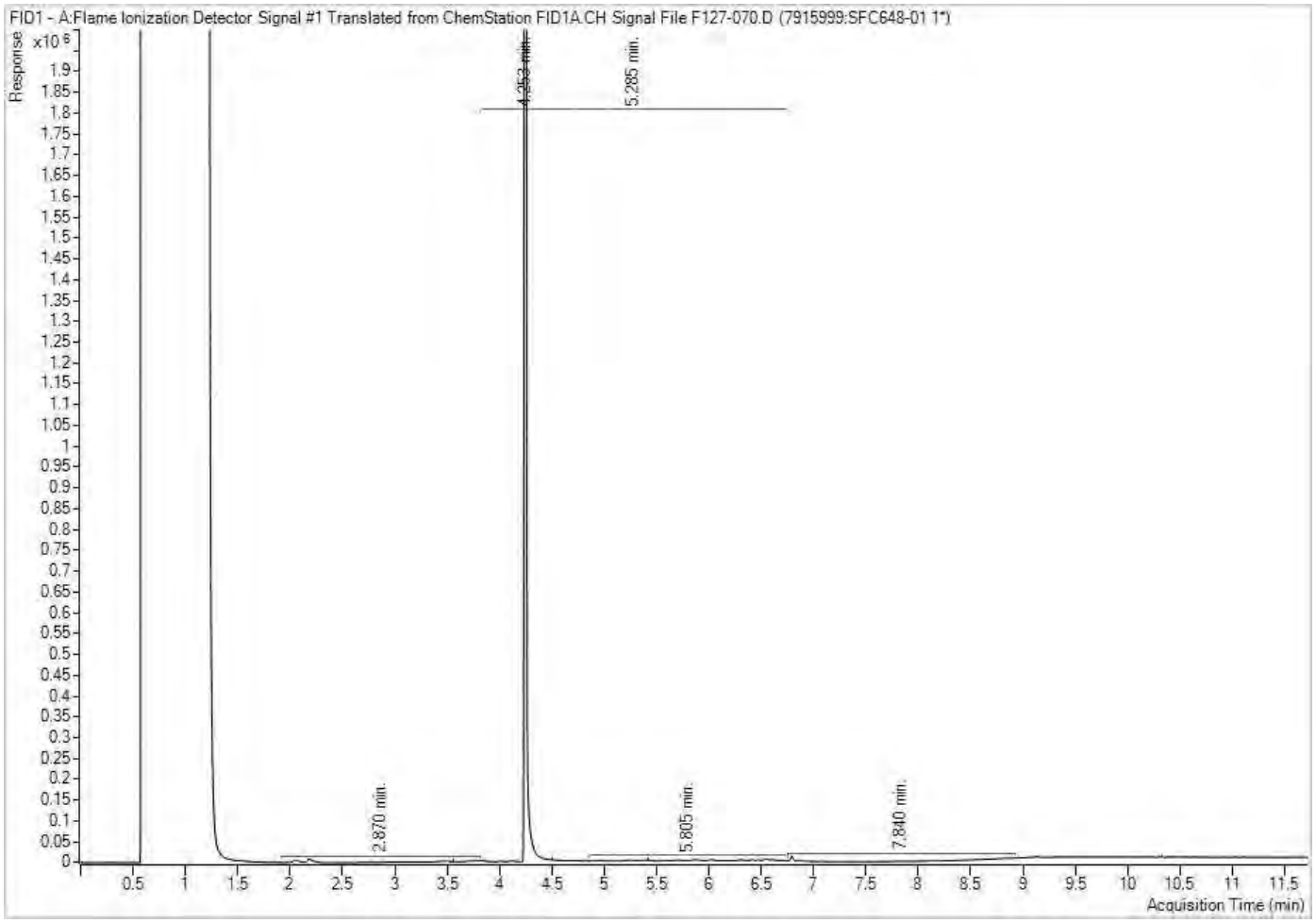


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC648

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH202-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

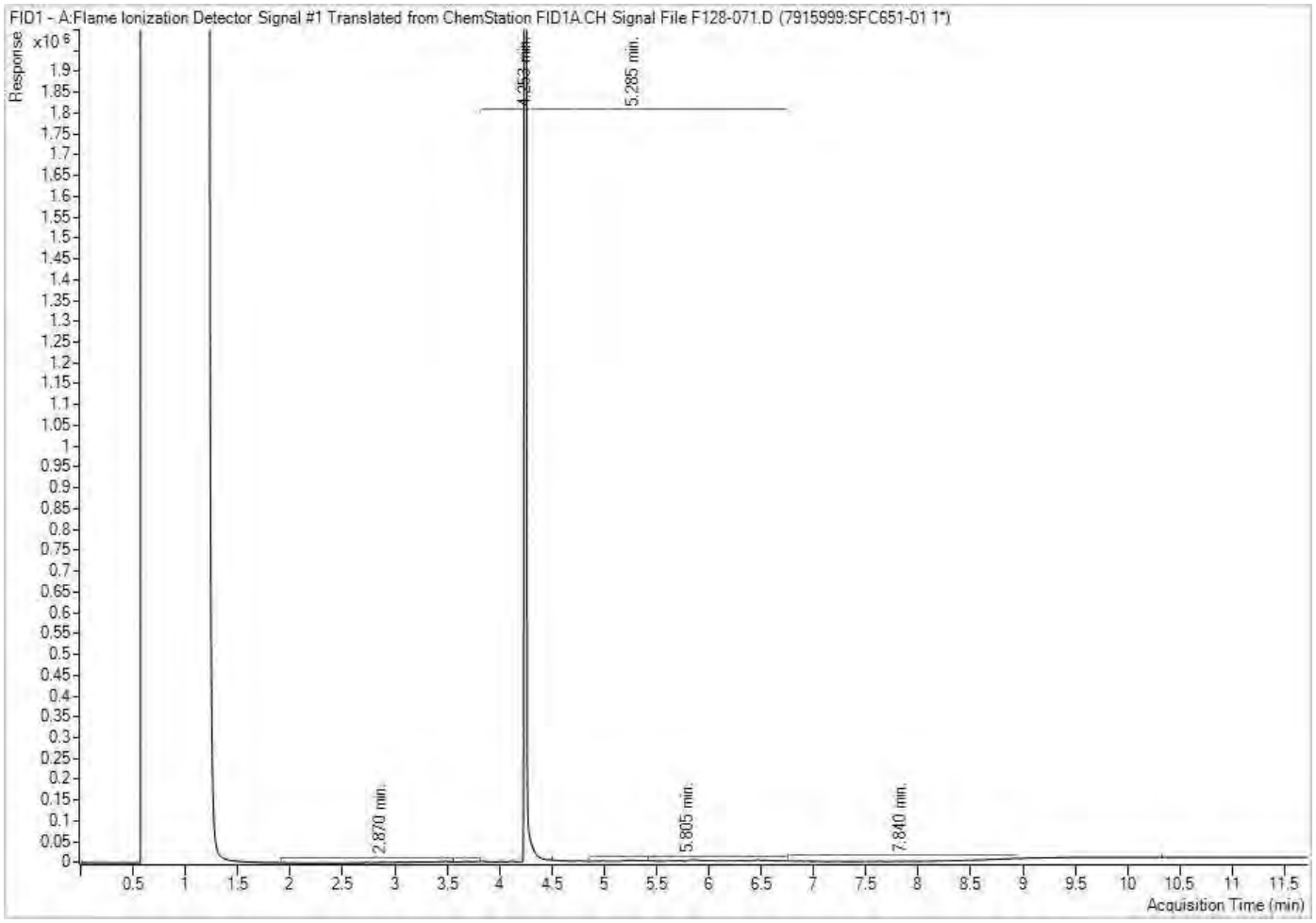


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC651

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH203-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

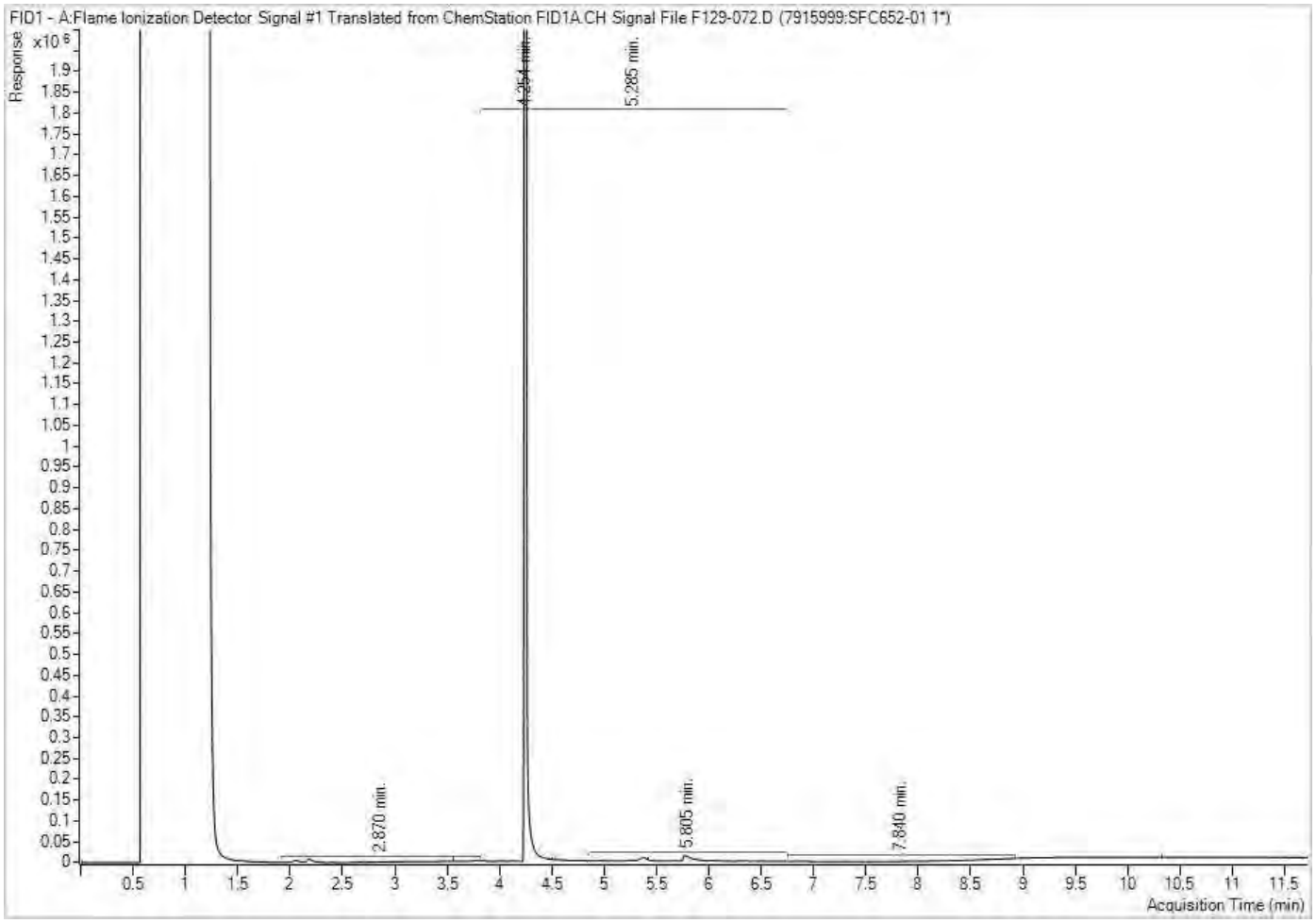


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC652

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH204-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

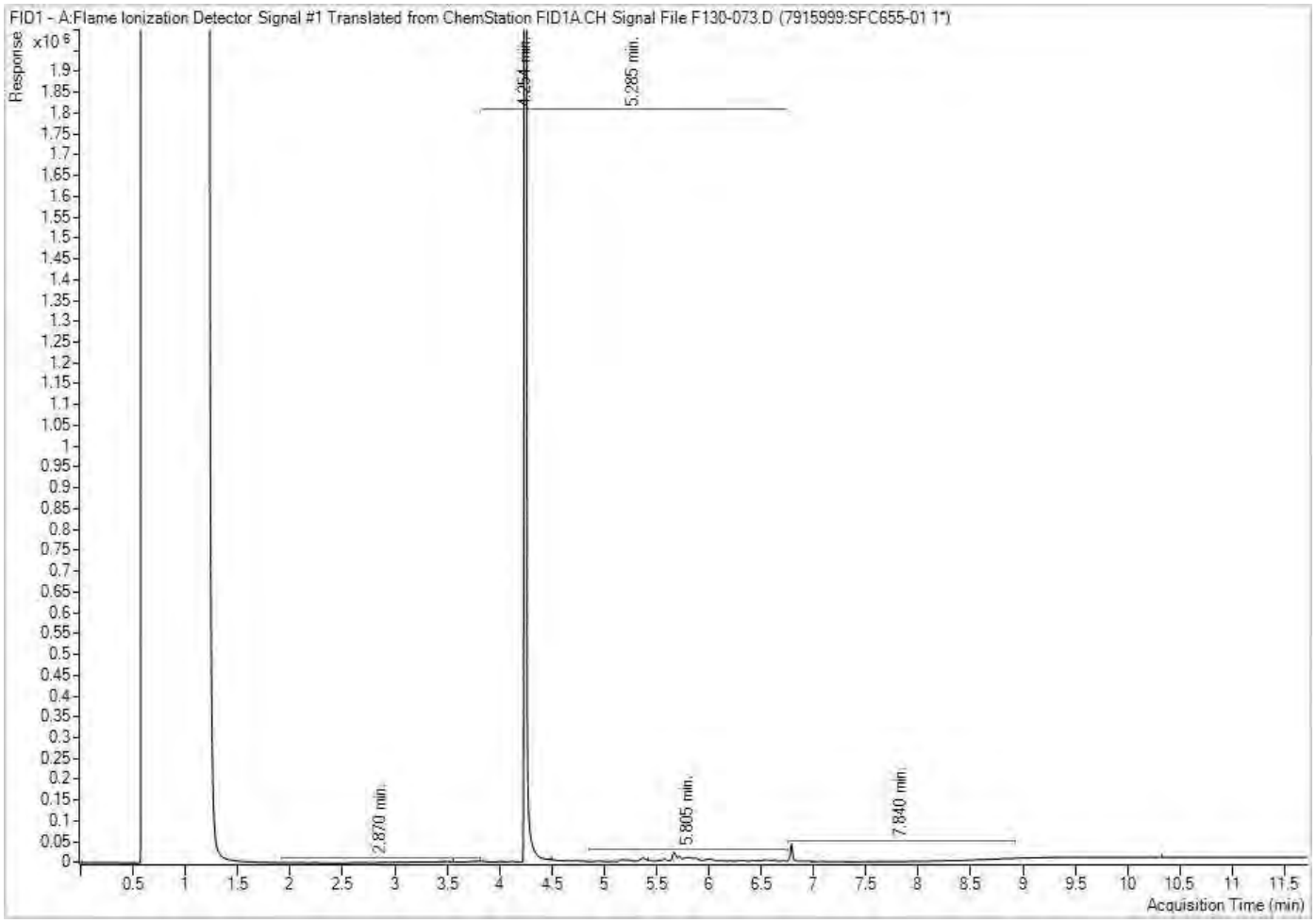


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC655

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH205-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

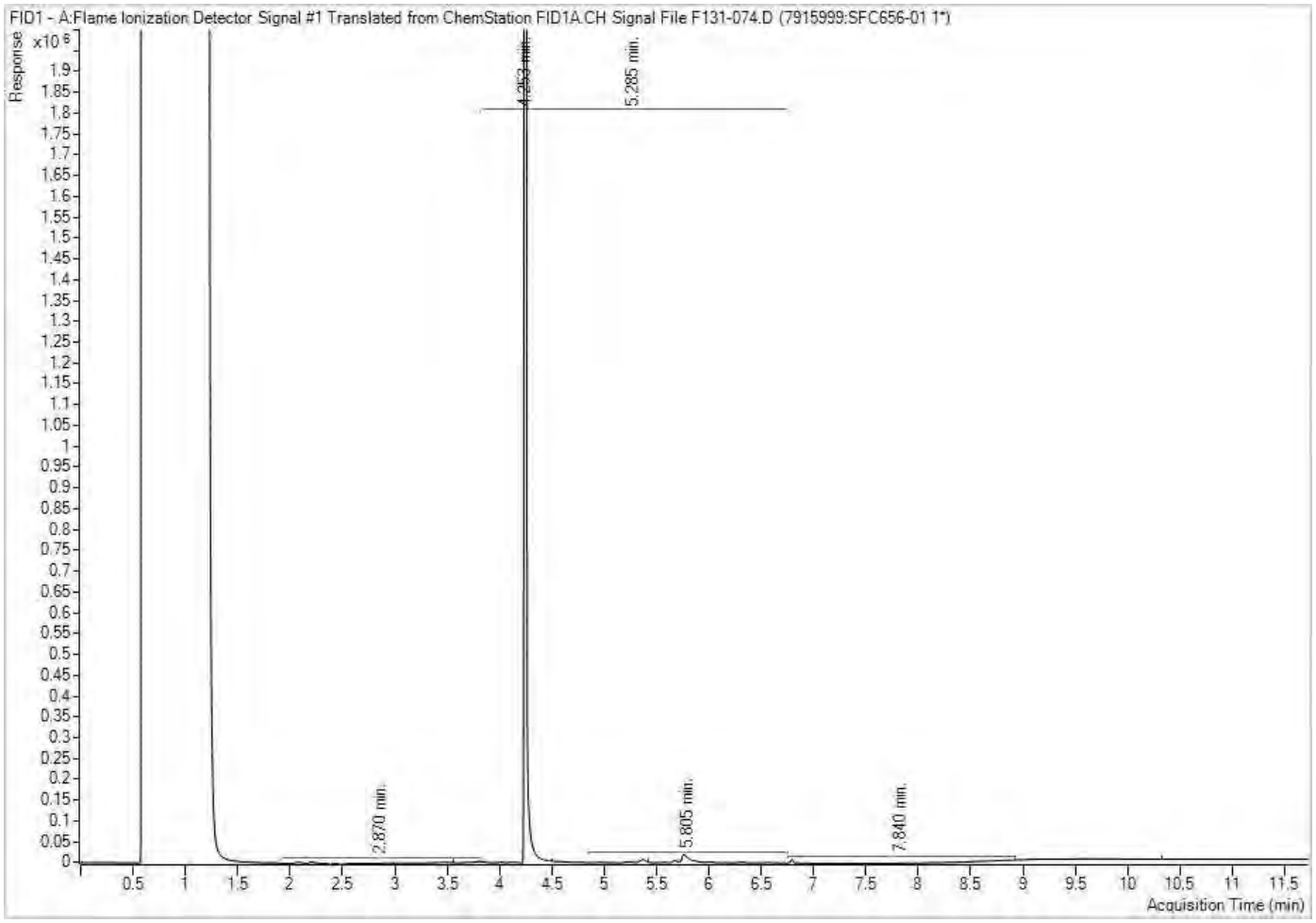


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C281316
Report Date: 2022/05/17
Bureau Veritas Sample: SFC656

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH205-94

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 854744-20-01, 854744-19-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101369
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C285331
Received: 2022/03/31, 15:47

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2022/04/06	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	6	2022/04/04	2022/04/05	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	4	N/A	2022/04/05		EPA 8260C m
Free (WAD) Cyanide	6	2022/04/04	2022/04/05	CAM SOP-00457	OMOE E3015 m
Conductivity	7	2022/04/05	2022/04/05	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/04/06	2022/04/06	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	6	2022/04/04	2022/04/05	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	2	N/A	2022/04/05	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	6	2022/04/05	2022/04/05	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	6	2022/04/06	2022/04/06	CAM SOP-00447	EPA 6020B m
Moisture	11	N/A	2022/04/01	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	4	2022/04/04	2022/04/05	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Soil	4	2022/04/04	2022/04/05	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT	6	2022/04/05	2022/04/05	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/05	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/06	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/04/04	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	3	N/A	2022/04/05	CAM SOP-00230	EPA 8260C m

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 854744-20-01, 854744-19-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101369
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C285331
Received: 2022/03/31, 15:47

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C285331
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ626			SFZ626			SFZ627		
Sampling Date		2022/03/28 10:40			2022/03/28 10:40			2022/03/28 10:40		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-6	RDL	QC Batch	1-MW206-6 Lab-Dup	RDL	QC Batch	1-MW206-96	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.40		7914042				0.39		7914042
Inorganics										
Conductivity	mS/cm	0.60	0.002	7921840				0.54	0.002	7922590
Moisture	%	29	1.0	7916304				30	1.0	7916304
Available (CaCl2) pH	pH	6.80		7921914				6.59		7921914
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124				<0.01	0.01	7920124
Chromium (VI)	ug/g	<0.18	0.18	7919930				<0.18	0.18	7919930
Metals										
Hot Water Ext. Boron (B)	ug/g	0.74	0.050	7919910				0.69	0.050	7919910
Acid Extractable Antimony (Sb)	ug/g	0.45	0.20	7924311	0.42	0.20	7924311	0.27	0.20	7924311
Acid Extractable Arsenic (As)	ug/g	5.2	1.0	7924311	5.4	1.0	7924311	5.1	1.0	7924311
Acid Extractable Barium (Ba)	ug/g	93	0.50	7924311	94	0.50	7924311	96	0.50	7924311
Acid Extractable Beryllium (Be)	ug/g	0.76	0.20	7924311	0.73	0.20	7924311	0.79	0.20	7924311
Acid Extractable Boron (B)	ug/g	5.1	5.0	7924311	<5.0	5.0	7924311	<5.0	5.0	7924311
Acid Extractable Cadmium (Cd)	ug/g	0.31	0.10	7924311	0.25	0.10	7924311	0.27	0.10	7924311
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7924311	23	1.0	7924311	25	1.0	7924311
Acid Extractable Cobalt (Co)	ug/g	9.4	0.10	7924311	9.3	0.10	7924311	10	0.10	7924311
Acid Extractable Copper (Cu)	ug/g	16	0.50	7924311	16	0.50	7924311	17	0.50	7924311
Acid Extractable Lead (Pb)	ug/g	27	1.0	7924311	27	1.0	7924311	25	1.0	7924311
Acid Extractable Molybdenum (Mo)	ug/g	1.3	0.50	7924311	1.3	0.50	7924311	1.2	0.50	7924311
Acid Extractable Nickel (Ni)	ug/g	29	0.50	7924311	29	0.50	7924311	29	0.50	7924311
Acid Extractable Selenium (Se)	ug/g	0.65	0.50	7924311	0.58	0.50	7924311	0.57	0.50	7924311
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311	<0.20	0.20	7924311
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7924311	0.18	0.050	7924311	0.16	0.050	7924311
Acid Extractable Uranium (U)	ug/g	0.76	0.050	7924311	0.77	0.050	7924311	0.75	0.050	7924311
Acid Extractable Vanadium (V)	ug/g	37	5.0	7924311	36	5.0	7924311	36	5.0	7924311
Acid Extractable Zinc (Zn)	ug/g	72	5.0	7924311	70	5.0	7924311	70	5.0	7924311
Acid Extractable Mercury (Hg)	ug/g	0.14	0.050	7924311	0.11	0.050	7924311	0.089	0.050	7924311

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ629			SFZ630			SFZ630		
Sampling Date		2022/03/28 13:45			2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW207-14	RDL	QC Batch	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	2.2		7914042	1.5		7914042			
Inorganics										
Conductivity	mS/cm	1.7	0.002	7921849	0.78	0.002	7921840			
Moisture	%	26	1.0	7916304						
Available (CaCl2) pH	pH	7.84		7921914	7.91		7921914			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124	<0.01	0.01	7920124			
Chromium (VI)	ug/g	<0.18	0.18	7919930	<0.18	0.18	7919930			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.63	0.050	7919910	0.35	0.050	7919910	0.37	0.050	7919910
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311			
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7924311	4.1	1.0	7924311			
Acid Extractable Barium (Ba)	ug/g	130	0.50	7924311	97	0.50	7924311			
Acid Extractable Beryllium (Be)	ug/g	0.90	0.20	7924311	0.70	0.20	7924311			
Acid Extractable Boron (B)	ug/g	13	5.0	7924311	9.9	5.0	7924311			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7924311	<0.10	0.10	7924311			
Acid Extractable Chromium (Cr)	ug/g	28	1.0	7924311	23	1.0	7924311			
Acid Extractable Cobalt (Co)	ug/g	16	0.10	7924311	13	0.10	7924311			
Acid Extractable Copper (Cu)	ug/g	27	0.50	7924311	24	0.50	7924311			
Acid Extractable Lead (Pb)	ug/g	9.8	1.0	7924311	7.9	1.0	7924311			
Acid Extractable Molybdenum (Mo)	ug/g	0.62	0.50	7924311	0.52	0.50	7924311			
Acid Extractable Nickel (Ni)	ug/g	34	0.50	7924311	29	0.50	7924311			
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7924311	<0.50	0.50	7924311			
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311			
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	7924311	0.12	0.050	7924311			
Acid Extractable Uranium (U)	ug/g	0.81	0.050	7924311	0.80	0.050	7924311			
Acid Extractable Vanadium (V)	ug/g	35	5.0	7924311	31	5.0	7924311			
Acid Extractable Zinc (Zn)	ug/g	69	5.0	7924311	59	5.0	7924311			
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7924311	<0.050	0.050	7924311			

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Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ631	SFZ633			SFZ633		
Sampling Date		2022/03/29 15:07	2022/03/29 17:00			2022/03/29 17:00		
COC Number		854744-20-01	854744-20-01			854744-20-01		
	UNITS	1-BH209-1	1-BH210-1	RDL	QC Batch	1-BH210-1 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.52	0.21		7914042			
Inorganics								
Conductivity	mS/cm	0.60	0.26	0.002	7921849			
Moisture	%	18	11	1.0	7916304			
Available (CaCl2) pH	pH	7.62	7.35		7921914			
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7920124	<0.01	0.01	7920124
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7919930	0.23	0.18	7919930
Metals								
Hot Water Ext. Boron (B)	ug/g	0.094	0.082	0.050	7919910			
Acid Extractable Antimony (Sb)	ug/g	0.23	<0.20	0.20	7924311			
Acid Extractable Arsenic (As)	ug/g	5.3	2.8	1.0	7924311			
Acid Extractable Barium (Ba)	ug/g	180	38	0.50	7924311			
Acid Extractable Beryllium (Be)	ug/g	1.5	0.37	0.20	7924311			
Acid Extractable Boron (B)	ug/g	5.6	<5.0	5.0	7924311			
Acid Extractable Cadmium (Cd)	ug/g	0.15	0.10	0.10	7924311			
Acid Extractable Chromium (Cr)	ug/g	30	12	1.0	7924311			
Acid Extractable Cobalt (Co)	ug/g	43	6.3	0.10	7924311			
Acid Extractable Copper (Cu)	ug/g	30	13	0.50	7924311			
Acid Extractable Lead (Pb)	ug/g	15	10	1.0	7924311			
Acid Extractable Molybdenum (Mo)	ug/g	0.94	<0.50	0.50	7924311			
Acid Extractable Nickel (Ni)	ug/g	36	12	0.50	7924311			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7924311			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7924311			
Acid Extractable Thallium (Tl)	ug/g	0.16	0.071	0.050	7924311			
Acid Extractable Uranium (U)	ug/g	0.77	0.42	0.050	7924311			
Acid Extractable Vanadium (V)	ug/g	42	19	5.0	7924311			
Acid Extractable Zinc (Zn)	ug/g	76	44	5.0	7924311			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7924311			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SFZ624	SFZ625	SFZ628	SFZ630		
Sampling Date		2022/03/28 10:30	2022/03/28 10:30	2022/03/28 13:30	2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01	854744-20-01	854744-20-01		
	UNITS	1-MW206-5	1-MW206-95	1-MW207-13	1-MW208-8	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	7914038
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(b/j)fluoranthene	ug/g	0.0065	0.0075	<0.0050	<0.0050	0.0050	7921008
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Chrysene	ug/g	0.0053	0.0051	<0.0050	<0.0050	0.0050	7921008
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Fluoranthene	ug/g	0.0092	0.014	<0.0050	<0.0050	0.0050	7921008
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Naphthalene	ug/g	<0.0050	0.0069	<0.0050	<0.0050	0.0050	7921008
Phenanthrene	ug/g	0.0075	0.010	<0.0050	<0.0050	0.0050	7921008
Pyrene	ug/g	0.0073	0.017	<0.0050	<0.0050	0.0050	7921008
Surrogate Recovery (%)							
D10-Anthracene	%	77	79	101	93		7921008
D14-Terphenyl (FS)	%	92	91	102	93		7921008
D8-Acenaphthylene	%	82	87	91	77		7921008

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C285331
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 PCBS (SOIL)

Bureau Veritas ID		SFZ626	SFZ626	SFZ627	SFZ629	SFZ630		
Sampling Date		2022/03/28 10:40	2022/03/28 10:40	2022/03/28 10:40	2022/03/28 13:45	2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01	854744-20-01	854744-20-01	854744-20-01		
	UNITS	1-MW206-6	1-MW206-6 Lab-Dup	1-MW206-96	1-MW207-14	1-MW208-8	RDL	QC Batch
PCBs								
Aroclor 1242	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Aroclor 1248	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Aroclor 1254	ug/g	<0.010	<0.010	0.010	<0.010	<0.010	0.010	7921559
Aroclor 1260	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Total PCB	ug/g	<0.010	<0.010	0.010	<0.010	<0.010	0.010	7921559
Surrogate Recovery (%)								
Decachlorobiphenyl	%	101	107	95	99	103		7921559

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SFZ632	SFZ634		
Sampling Date		2022/03/29 15:25	2022/03/29 17:30		
COC Number		854744-20-01	854744-19-01		
	UNITS	1-BH209-4	1-BH210-4	RDL	QC Batch
Inorganics					
Moisture	%	18	20	1.0	7916304
BTEX & F1 Hydrocarbons					
Benzene	ug/g	<0.020	<0.020	0.020	7921464
Toluene	ug/g	<0.020	<0.020	0.020	7921464
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7921464
o-Xylene	ug/g	<0.020	<0.020	0.020	7921464
p+m-Xylene	ug/g	<0.040	<0.040	0.040	7921464
Total Xylenes	ug/g	<0.040	<0.040	0.040	7921464
F1 (C6-C10)	ug/g	<10	<10	10	7921464
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7921464
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7921828
Reached Baseline at C50	ug/g	Yes	Yes		7921828
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	91	89		7921464
4-Bromofluorobenzene	%	81	93		7921464
D10-o-Xylene	%	95	94		7921464
D4-1,2-Dichloroethane	%	97	99		7921464
o-Terphenyl	%	94	93		7921828

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ624			SFZ624			SFZ625		
Sampling Date		2022/03/28 10:30			2022/03/28 10:30			2022/03/28 10:30		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-5	RDL	QC Batch	1-MW206-5 Lab-Dup	RDL	QC Batch	1-MW206-95	RDL	QC Batch
Inorganics										
Moisture	%	32	1.0	7916304				31	1.0	7916304
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7914647				<0.050	0.050	7914647
Volatile Organics										
Acetone (2-Propanone)	ug/g	<0.49	0.49	7918152	<0.49	0.49	7918152	<0.49	0.49	7918152
Benzene	ug/g	0.047	0.0060	7918152	0.050	0.0060	7918152	0.057	0.0060	7918152
Bromodichloromethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Bromoform	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Bromomethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Carbon Tetrachloride	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Chlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Chloroform	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Dibromochloromethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,3-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,4-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1-Dichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichloroethane	ug/g	<0.049	0.049	7918152	<0.049	0.049	7918152	<0.049	0.049	7918152
1,1-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichloropropane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7918152	<0.030	0.030	7918152	<0.030	0.030	7918152
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Ethylbenzene	ug/g	<0.010	0.010	7918152	<0.010	0.010	7918152	0.026	0.010	7918152
Ethylene Dibromide	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Hexane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	7918152	<0.049	0.049	7918152	<0.049	0.049	7918152
Methyl Ethyl Ketone (2-Butanone)	ug/g	0.42	0.40	7918152	0.46	0.40	7918152	<0.40	0.40	7918152

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QC Batch = Quality Control Batch
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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ624			SFZ624			SFZ625		
Sampling Date		2022/03/28 10:30			2022/03/28 10:30			2022/03/28 10:30		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-5	RDL	QC Batch	1-MW206-5 Lab-Dup	RDL	QC Batch	1-MW206-95	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	7918152	<0.40	0.40	7918152	<0.40	0.40	7918152
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Styrene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Tetrachloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Toluene	ug/g	0.24	0.020	7918152	0.23	0.020	7918152	0.41	0.020	7918152
1,1,1-Trichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,2-Trichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Trichloroethylene	ug/g	<0.010	0.010	7918152	<0.010	0.010	7918152	<0.010	0.010	7918152
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Vinyl Chloride	ug/g	<0.019	0.019	7918152	<0.019	0.019	7918152	<0.019	0.019	7918152
p+m-Xylene	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
o-Xylene	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
Total Xylenes	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
F1 (C6-C10)	ug/g	<10	10	7918152	<10	10	7918152	<10	10	7918152
F1 (C6-C10) - BTEX	ug/g	<10	10	7918152	<10	10	7918152	<10	10	7918152
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	83	10	7921828				36	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	1100	50	7921828				620	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7921828				<50	50	7921828
Reached Baseline at C50	ug/g	Yes		7921828				Yes		7921828
Surrogate Recovery (%)										
o-Terphenyl	%	91		7921828				91		7921828
4-Bromofluorobenzene	%	96		7918152	97		7918152	95		7918152
D10-o-Xylene	%	90		7918152	84		7918152	84		7918152
D4-1,2-Dichloroethane	%	117		7918152	120		7918152	116		7918152
D8-Toluene	%	95		7918152	92		7918152	96		7918152

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ628	SFZ630			SFZ630		
Sampling Date		2022/03/28 13:30	2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01			854744-20-01		
	UNITS	1-MW207-13	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	22	18	1.0	7916304	19	1.0	7916304
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7914647			
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7918152			
Benzene	ug/g	<0.0060	<0.0060	0.0060	7918152			
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7918152			
Bromoform	ug/g	<0.040	<0.040	0.040	7918152			
Bromomethane	ug/g	<0.040	<0.040	0.040	7918152			
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7918152			
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
Chloroform	ug/g	<0.040	<0.040	0.040	7918152			
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7918152			
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7918152			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7918152			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7918152			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7918152			
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7918152			
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7918152			
Hexane	ug/g	<0.040	<0.040	0.040	7918152			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7918152			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7918152			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ628	SFZ630			SFZ630		
Sampling Date		2022/03/28 13:30	2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01			854744-20-01		
	UNITS	1-MW207-13	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7918152			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7918152			
Styrene	ug/g	<0.040	<0.040	0.040	7918152			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7918152			
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
Toluene	ug/g	<0.020	<0.020	0.020	7918152			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7918152			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7918152			
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7918152			
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7918152			
o-Xylene	ug/g	<0.020	<0.020	0.020	7918152			
Total Xylenes	ug/g	<0.020	<0.020	0.020	7918152			
F1 (C6-C10)	ug/g	<10	<10	10	7918152			
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7918152			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7921828	<10	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7921828	<50	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7921828	<50	50	7921828
Reached Baseline at C50	ug/g	Yes	Yes		7921828	Yes		7921828
Surrogate Recovery (%)								
o-Terphenyl	%	94	94		7921828	93		7921828
4-Bromofluorobenzene	%	96	96		7918152			
D10-o-Xylene	%	89	89		7918152			
D4-1,2-Dichloroethane	%	114	118		7918152			
D8-Toluene	%	96	96		7918152			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C285331
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SFZ632			SFZ634		
Sampling Date		2022/03/29 15:25			2022/03/29 17:30		
COC Number		854744-20-01			854744-19-01		
	UNITS	1-BH209-4	RDL	QC Batch	1-BH210-4	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.84		7914042	0.85		7914042
Inorganics							
Conductivity	mS/cm	0.38	0.002	7922590	2.6	0.002	7924739
Miscellaneous Parameters							
Grain Size	%				FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%				98	1	7952276
Sieve - #200 (>0.075mm)	%				2	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: SFZ624 **Collected:** 2022/03/28
Sample ID: 1-MW206-5 **Shipped:**
Matrix: Soil **Received:** 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/04	Jett Wu

Bureau Veritas ID: SFZ624 Dup **Collected:** 2022/03/28
Sample ID: 1-MW206-5 **Shipped:**
Matrix: Soil **Received:** 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/04	Jett Wu

Bureau Veritas ID: SFZ625 **Collected:** 2022/03/28
Sample ID: 1-MW206-95 **Shipped:**
Matrix: Soil **Received:** 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ626 **Collected:** 2022/03/28
Sample ID: 1-MW206-6 **Shipped:**
Matrix: Soil **Received:** 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921840	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/05	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SFZ626 Dup
Sample ID: 1-MW206-6
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour

Bureau Veritas ID: SFZ627
Sample ID: 1-MW206-96
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7922590	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ628
Sample ID: 1-MW207-13
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ629
Sample ID: 1-MW207-14
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

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Bureau Veritas Job #: C285331
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFZ630
Sample ID: 1-MW208-8
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921840	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/05	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ630 Dup
Sample ID: 1-MW208-8
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang

Bureau Veritas ID: SFZ631
Sample ID: 1-BH209-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ632
Sample ID: 1-BH209-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7922590	2022/04/05	2022/04/05	Kien Tran

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Bureau Veritas Job #: C285331
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFZ632
Sample ID: 1-BH209-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7921464	N/A	2022/04/05	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ633
Sample ID: 1-BH210-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ633 Dup
Sample ID: 1-BH210-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota

Bureau Veritas ID: SFZ634
Sample ID: 1-BH210-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7924739	2022/04/06	2022/04/06	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7921464	N/A	2022/04/05	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

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GENERAL COMMENTS

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

Package 1	4.3°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample 1-BH210-4 as per client.

Sample SFZ632 [1-BH209-4] : 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 SFZ634 [1-BH210-4] : 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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7918152	4-Bromofluorobenzene	2022/04/04	99	60 - 140	99	60 - 140	96	%				
7918152	D10-o-Xylene	2022/04/04	93	60 - 130	97	60 - 130	85	%				
7918152	D4-1,2-Dichloroethane	2022/04/04	119	60 - 140	116	60 - 140	116	%				
7918152	D8-Toluene	2022/04/04	99	60 - 140	101	60 - 140	97	%				
7921008	D10-Anthracene	2022/04/05	86	50 - 130	103	50 - 130	101	%				
7921008	D14-Terphenyl (FS)	2022/04/05	88	50 - 130	102	50 - 130	102	%				
7921008	D8-Acenaphthylene	2022/04/05	76	50 - 130	96	50 - 130	83	%				
7921464	1,4-Difluorobenzene	2022/04/05	87	60 - 140	86	60 - 140	90	%				
7921464	4-Bromofluorobenzene	2022/04/05	118	60 - 140	117	60 - 140	78	%				
7921464	D10-o-Xylene	2022/04/05	94	60 - 140	97	60 - 140	96	%				
7921464	D4-1,2-Dichloroethane	2022/04/05	94	60 - 140	92	60 - 140	99	%				
7921559	Decachlorobiphenyl	2022/04/05	99	60 - 130	93	60 - 130	96	%				
7921828	o-Terphenyl	2022/04/05	91	60 - 130	92	60 - 130	94	%				
7916304	Moisture	2022/04/01							1.1	20		
7918152	1,1,1,2-Tetrachloroethane	2022/04/04	96	60 - 140	110	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,1-Trichloroethane	2022/04/04	100	60 - 140	117	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,2,2-Tetrachloroethane	2022/04/04	93	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,2-Trichloroethane	2022/04/04	109	60 - 140	122	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1-Dichloroethane	2022/04/04	91	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1-Dichloroethylene	2022/04/04	98	60 - 140	113	60 - 130	<0.040	ug/g	NC	50		
7918152	1,2-Dichlorobenzene	2022/04/04	90	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7918152	1,2-Dichloroethane	2022/04/04	102	60 - 140	114	60 - 130	<0.049	ug/g	NC	50		
7918152	1,2-Dichloropropane	2022/04/04	90	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7918152	1,3-Dichlorobenzene	2022/04/04	89	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7918152	1,4-Dichlorobenzene	2022/04/04	104	60 - 140	118	60 - 130	<0.040	ug/g	NC	50		
7918152	Acetone (2-Propanone)	2022/04/04	106	60 - 140	115	60 - 140	<0.49	ug/g	NC	50		
7918152	Benzene	2022/04/04	87	60 - 140	99	60 - 130	<0.0060	ug/g	5.3	50		
7918152	Bromodichloromethane	2022/04/04	102	60 - 140	115	60 - 130	<0.040	ug/g	NC	50		
7918152	Bromoform	2022/04/04	95	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	Bromomethane	2022/04/04	97	60 - 140	108	60 - 140	<0.040	ug/g	NC	50		
7918152	Carbon Tetrachloride	2022/04/04	100	60 - 140	118	60 - 130	<0.040	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7918152	Chlorobenzene	2022/04/04	90	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
7918152	Chloroform	2022/04/04	99	60 - 140	112	60 - 130	<0.040	ug/g	NC	50		
7918152	cis-1,2-Dichloroethylene	2022/04/04	94	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	cis-1,3-Dichloropropene	2022/04/04	85	60 - 140	95	60 - 130	<0.030	ug/g	NC	50		
7918152	Dibromochloromethane	2022/04/04	96	60 - 140	107	60 - 130	<0.040	ug/g	NC	50		
7918152	Dichlorodifluoromethane (FREON 12)	2022/04/04	102	60 - 140	118	60 - 140	<0.040	ug/g	NC	50		
7918152	Ethylbenzene	2022/04/04	83	60 - 140	97	60 - 130	<0.010	ug/g	NC	50		
7918152	Ethylene Dibromide	2022/04/04	91	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7918152	F1 (C6-C10) - BTEX	2022/04/04					<10	ug/g	NC	30		
7918152	F1 (C6-C10)	2022/04/04	74	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7918152	Hexane	2022/04/04	93	60 - 140	107	60 - 130	<0.040	ug/g	NC	50		
7918152	Methyl Ethyl Ketone (2-Butanone)	2022/04/04	99	60 - 140	109	60 - 140	<0.40	ug/g	9.3	50		
7918152	Methyl Isobutyl Ketone	2022/04/04	102	60 - 140	114	60 - 130	<0.40	ug/g	NC	50		
7918152	Methyl t-butyl ether (MTBE)	2022/04/04	88	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7918152	Methylene Chloride(Dichloromethane)	2022/04/04	95	60 - 140	105	60 - 130	<0.049	ug/g	NC	50		
7918152	o-Xylene	2022/04/04	83	60 - 140	98	60 - 130	<0.020	ug/g	NC	50		
7918152	p+m-Xylene	2022/04/04	87	60 - 140	102	60 - 130	<0.020	ug/g	NC	50		
7918152	Styrene	2022/04/04	95	60 - 140	110	60 - 130	<0.040	ug/g	NC	50		
7918152	Tetrachloroethylene	2022/04/04	84	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7918152	Toluene	2022/04/04	84	60 - 140	98	60 - 130	<0.020	ug/g	3.7	50		
7918152	Total Xylenes	2022/04/04					<0.020	ug/g	NC	50		
7918152	trans-1,2-Dichloroethylene	2022/04/04	92	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	trans-1,3-Dichloropropene	2022/04/04	92	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7918152	Trichloroethylene	2022/04/04	96	60 - 140	110	60 - 130	<0.010	ug/g	NC	50		
7918152	Trichlorofluoromethane (FREON 11)	2022/04/04	105	60 - 140	122	60 - 130	<0.040	ug/g	NC	50		
7918152	Vinyl Chloride	2022/04/04	96	60 - 140	110	60 - 130	<0.019	ug/g	NC	50		
7919910	Hot Water Ext. Boron (B)	2022/04/05	100	75 - 125	98	75 - 125	<0.050	ug/g	5.0	40		
7919930	Chromium (VI)	2022/04/05	88	75 - 125	92	N/A	<0.18	ug/g	25	35		
7920124	WAD Cyanide (Free)	2022/04/05	76	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		
7921008	1-Methylnaphthalene	2022/04/05	103	50 - 130	105	50 - 130	<0.0050	ug/g	20	40		
7921008	2-Methylnaphthalene	2022/04/05	93	50 - 130	100	50 - 130	<0.0050	ug/g	22	40		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7921008	Acenaphthene	2022/04/05	97	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7921008	Acenaphthylene	2022/04/05	97	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7921008	Anthracene	2022/04/05	97	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(a)anthracene	2022/04/05	105	50 - 130	115	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(a)pyrene	2022/04/05	91	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(b/j)fluoranthene	2022/04/05	94	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(g,h,i)perylene	2022/04/05	97	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(k)fluoranthene	2022/04/05	91	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40		
7921008	Chrysene	2022/04/05	99	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7921008	Dibenzo(a,h)anthracene	2022/04/05	105	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7921008	Fluoranthene	2022/04/05	107	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7921008	Fluorene	2022/04/05	104	50 - 130	113	50 - 130	<0.0050	ug/g	NC	40		
7921008	Indeno(1,2,3-cd)pyrene	2022/04/05	103	50 - 130	118	50 - 130	<0.0050	ug/g	NC	40		
7921008	Naphthalene	2022/04/05	69	50 - 130	91	50 - 130	<0.0050	ug/g	22	40		
7921008	Phenanthrene	2022/04/05	98	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7921008	Pyrene	2022/04/05	103	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40		
7921464	Benzene	2022/04/05	90	50 - 140	85	50 - 140	<0.020	ug/g	NC	50		
7921464	Ethylbenzene	2022/04/05	95	50 - 140	94	50 - 140	<0.020	ug/g	NC	50		
7921464	F1 (C6-C10) - BTEX	2022/04/05					<10	ug/g	NC	30		
7921464	F1 (C6-C10)	2022/04/05	81	60 - 140	89	80 - 120	<10	ug/g	NC	30		
7921464	o-Xylene	2022/04/05	94	50 - 140	98	50 - 140	<0.020	ug/g	NC	50		
7921464	p+m-Xylene	2022/04/05	92	50 - 140	95	50 - 140	<0.040	ug/g	NC	50		
7921464	Toluene	2022/04/05	87	50 - 140	85	50 - 140	<0.020	ug/g	NC	50		
7921464	Total Xylenes	2022/04/05					<0.040	ug/g	NC	50		
7921559	Aroclor 1242	2022/04/05					<0.010	ug/g	NC	50		
7921559	Aroclor 1248	2022/04/05					<0.010	ug/g	NC	50		
7921559	Aroclor 1254	2022/04/05					<0.010	ug/g	NC	50		
7921559	Aroclor 1260	2022/04/05	110	30 - 130	104	30 - 130	<0.010	ug/g	NC	50		
7921559	Total PCB	2022/04/05	110	30 - 130	104	30 - 130	<0.010	ug/g	NC	50		
7921828	F2 (C10-C16 Hydrocarbons)	2022/04/05	96	60 - 130	97	80 - 120	<10	ug/g	NC	30		
7921828	F3 (C16-C34 Hydrocarbons)	2022/04/05	96	60 - 130	96	80 - 120	<50	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7921828	F4 (C34-C50 Hydrocarbons)	2022/04/05	97	60 - 130	97	80 - 120	<50	ug/g	NC	30		
7921840	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	4.4	10		
7921849	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	1.7	10		
7921914	Available (CaCl2) pH	2022/04/05			100	97 - 103			0.87	N/A		
7922590	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	2.9	10		
7924311	Acid Extractable Antimony (Sb)	2022/04/06	89	75 - 125	103	80 - 120	<0.20	ug/g	7.3	30		
7924311	Acid Extractable Arsenic (As)	2022/04/06	96	75 - 125	97	80 - 120	<1.0	ug/g	2.2	30		
7924311	Acid Extractable Barium (Ba)	2022/04/06	NC	75 - 125	94	80 - 120	<0.50	ug/g	0.57	30		
7924311	Acid Extractable Beryllium (Be)	2022/04/06	98	75 - 125	97	80 - 120	<0.20	ug/g	3.9	30		
7924311	Acid Extractable Boron (B)	2022/04/06	69 (1)	75 - 125	96	80 - 120	<5.0	ug/g	2.0	30		
7924311	Acid Extractable Cadmium (Cd)	2022/04/06	99	75 - 125	97	80 - 120	<0.10	ug/g	20	30		
7924311	Acid Extractable Chromium (Cr)	2022/04/06	102	75 - 125	99	80 - 120	<1.0	ug/g	3.4	30		
7924311	Acid Extractable Cobalt (Co)	2022/04/06	101	75 - 125	99	80 - 120	<0.10	ug/g	1.2	30		
7924311	Acid Extractable Copper (Cu)	2022/04/06	97	75 - 125	97	80 - 120	<0.50	ug/g	0.92	30		
7924311	Acid Extractable Lead (Pb)	2022/04/06	NC	75 - 125	101	80 - 120	<1.0	ug/g	0.071	30		
7924311	Acid Extractable Mercury (Hg)	2022/04/06	88	75 - 125	92	80 - 120	<0.050	ug/g	28	30		
7924311	Acid Extractable Molybdenum (Mo)	2022/04/06	100	75 - 125	97	80 - 120	<0.50	ug/g	1.0	30		
7924311	Acid Extractable Nickel (Ni)	2022/04/06	NC	75 - 125	98	80 - 120	<0.50	ug/g	0.58	30		
7924311	Acid Extractable Selenium (Se)	2022/04/06	94	75 - 125	96	80 - 120	<0.50	ug/g	10	30		
7924311	Acid Extractable Silver (Ag)	2022/04/06	101	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7924311	Acid Extractable Thallium (Tl)	2022/04/06	100	75 - 125	103	80 - 120	<0.050	ug/g	5.0	30		
7924311	Acid Extractable Uranium (U)	2022/04/06	103	75 - 125	102	80 - 120	<0.050	ug/g	1.2	30		
7924311	Acid Extractable Vanadium (V)	2022/04/06	NC	75 - 125	100	80 - 120	<5.0	ug/g	3.0	30		
7924311	Acid Extractable Zinc (Zn)	2022/04/06	NC	75 - 125	96	80 - 120	<5.0	ug/g	1.9	30		
7924739	Conductivity	2022/04/06			99	90 - 110	<0.002	mS/cm	1.7	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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) Matrix Spike exceeds acceptance limits, sample inhomogeneity suspected.

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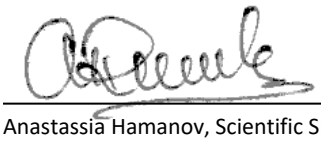
VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	~~#30085 Parkland Fuel Corporation~~ #4398 Terrapex	Company Name:	~~#27399 Terrapex Environmental Ltd~~	Quotation #:	~~B93691~~ C21481
Attention:	~~Sadiq Mohammed~~ Accounts Payable	Attention:	~~Geoff Lussier~~ Roy Yu	P.O. #:	~~TBD~~
Address:	~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd. Toronto	Address:	~~65 Nebo Road~~	Project:	~~CB937.01~~ CT3243.01
	~~Calgary AB T2P 4H4~~ ON. M3B2R7		Hamilton ON L8W 2C9	Project Name:	Grand Niagara RSC1
Tel:	~~(403) 667-2500~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel:	~~(905) 632-5939~~ 416-245-0011 x 229 Fax:	Site #:	~~BU42320 (73)~~
Email:	accounts.payable@terrapex.com	Email:	~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Sampled By:	AP

Laboratory Use Only:	
Bureau Veritas Job #:	Bottle Order #:
	854744
COC #:	Project Manager:
C#854744-20-01	Kudrat Bajwa

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)
- [ ] Table 1 [ ] Res/Park [x] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/Other [x] For RSC
- [x] Table 5

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality
- [ ] PWQO [ ] Reg 406 Table
- [ ] Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	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 (Soil)	VOCs	Metals and Inorganics	EC/SAR	PAH	PCB					# of Bottles	Comments
1		1-MW206-5	March 28/22	10:30	S	N	X	X			X						3	
2		1-MW206-95	↓	10:30	↓	↓	X	X			X						3	
3		1-MW206-6	↓	10:40	↓	↓			X			X					1	
4		1-MW206-96	↓	10:40	↓	↓			X			X					1	
5		1-MW207-13	↓	13:30	↓	↓	X	X			X						3	31-Mar-22 15:47
6		1-MW207-14	↓	13:45	↓	↓			X			X					1	Kudrat Bajwa C285331
7		1-MW208-8	March 29/22	12:00	↓	↓	X	X	X		X	X					4	ATM ENV-1660
8		1-BH209-1	March 29/22	15:07	↓	↓			X								1	
9		1-BH209-4	March 29/22	15:25	↓	↓	X			X							4	
10		1-BH210-1	March 29/22	17:00	↓	↓			X								1	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ______ Time Required: ______
Rush Confirmation Number: ______ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive
Alex Panniak AP	22/03/29	19:00	Kavithaselvan	2022/03/31	15:48	0	

Laboratory Use Only			On ice
Temperature (°C) on Recei 4/4/5	Custody Seal	Yes	No
	Present		
	Intact	✓	

* 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

BV H Sur Cel

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30685 Parkland Fuel Corporation~~ #4398 Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd~~	Quotation #: ~~B93691~~ C21481	Bureau Veritas Job #: / Bottle Order #: 854744
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~	P.O. #: ~~TBD~~	
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd, ~~Calgary AB T2P 4H4~~ Toronto ON, M3B2R7	Address: ~~65 Nebo Road~~ Roy Yu ~~Hamilton ON L8W 2C9~~	Project: ~~CB937-01~~ CT3243.01	COC #: C#854744-19-01 / Project Manager: Kudrat Bajwa
Tel: ~~(403) 567-2600~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 x 229 Fax:	Project Name: Grand Niagara RSC1	
Email: accounts.payable@terrapex.com	Email: ~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Site #: ~~BU42328 (73)~~	
		Sampled By: AP	

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)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality _____	
☒ Table 5	☐ PWQO ☐ Reg 406 Table _____	
	☐ Other _____	

Include Criteria on Certificate of Analysis (Y/N)? _____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	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 (Soil)	EC/SAR								# of Bottles	Comments
1		1-BH210-4	March 29/22	17:30	S		X	X								3	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
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			
Alex Parniak AP	22/03/29	19:00	~~KAUT~~ See pg e-1	2022/03/31	15:45	0	Time Sensitive	Temperature (°C) on Recei 4 | 4 | 5	Custody Seal Present ✓ / Intact ✓	Yes / No

ONIC

* 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.BVLABS.COM/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.

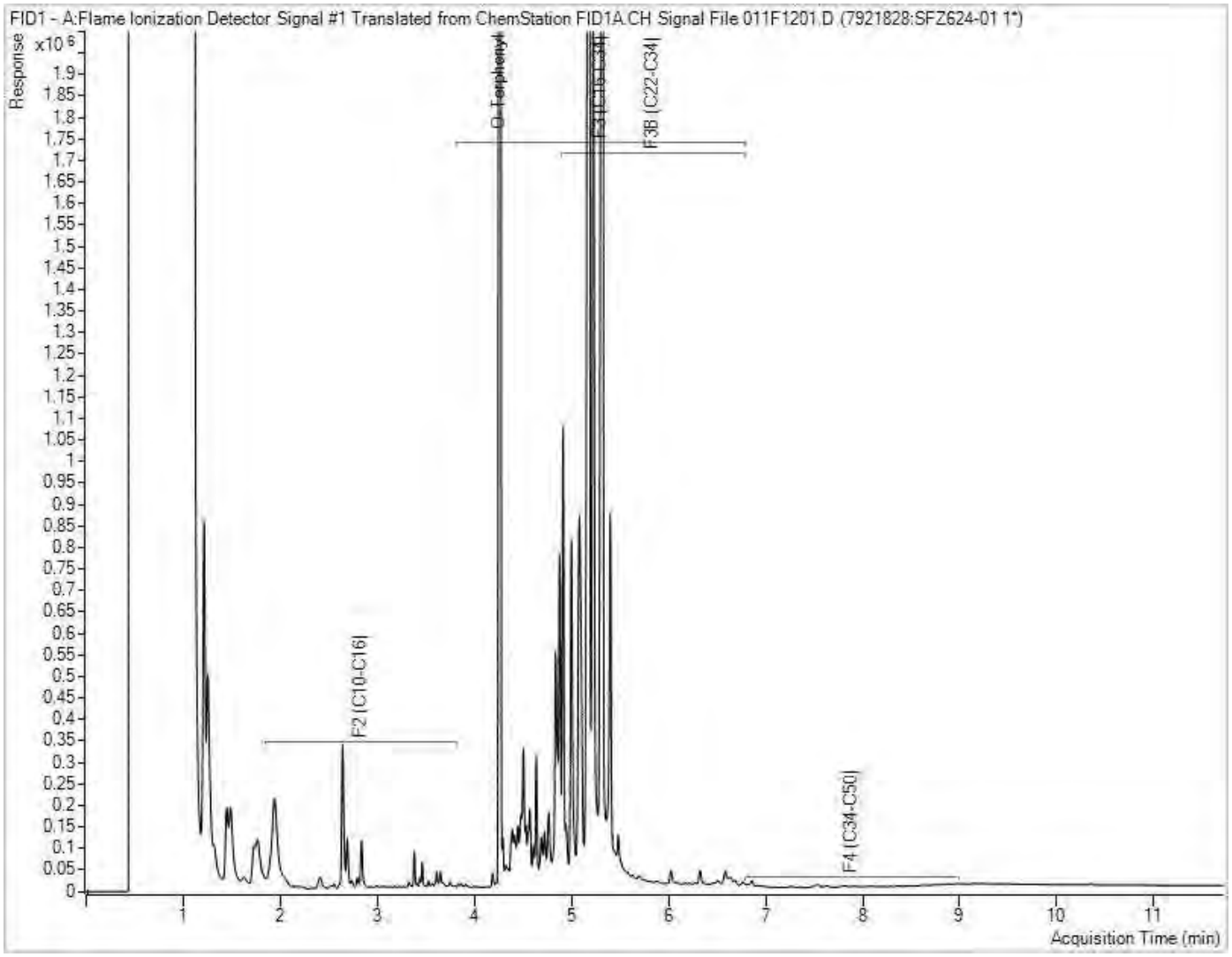
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

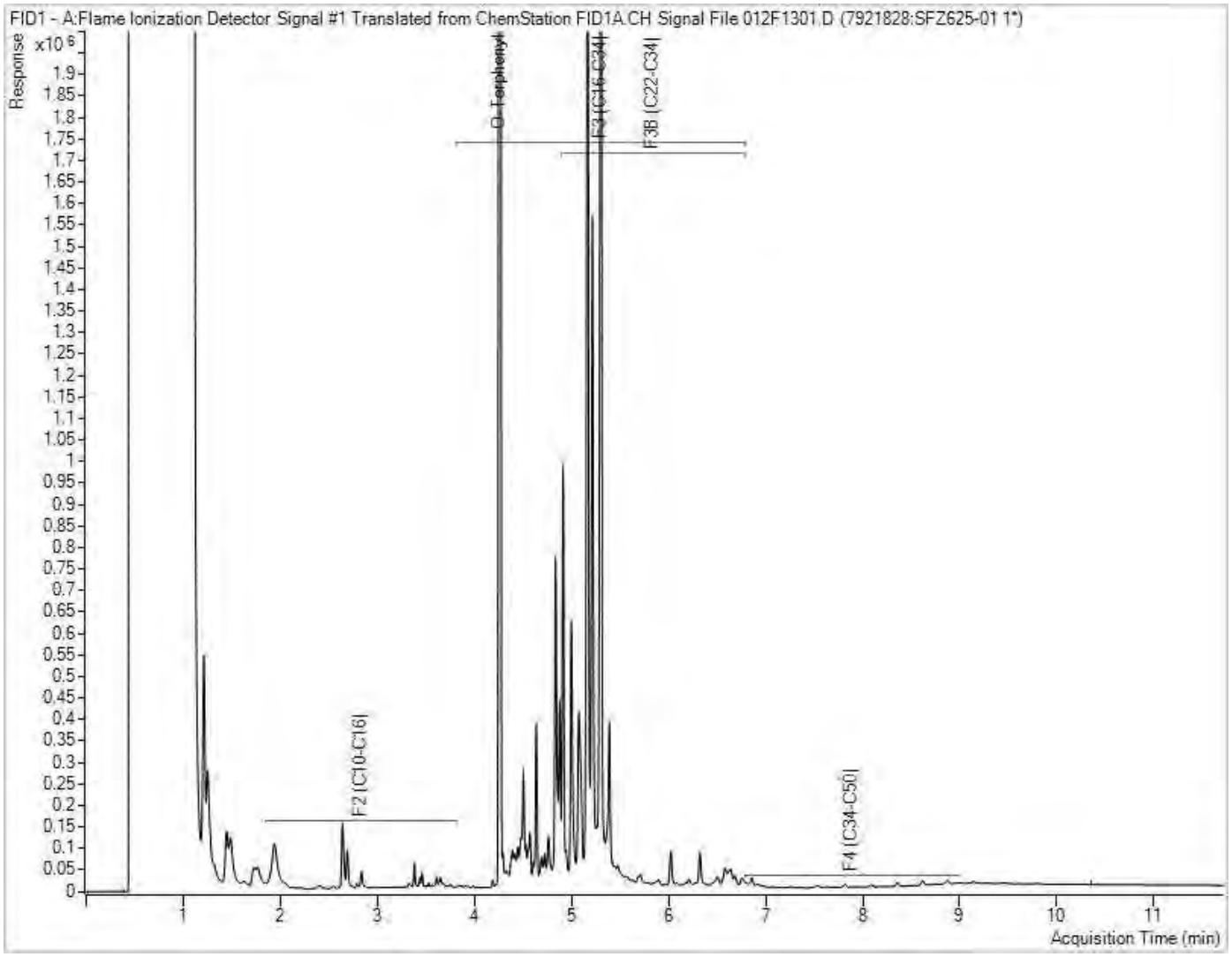


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/04/27
Bureau Veritas Sample: SFZ625

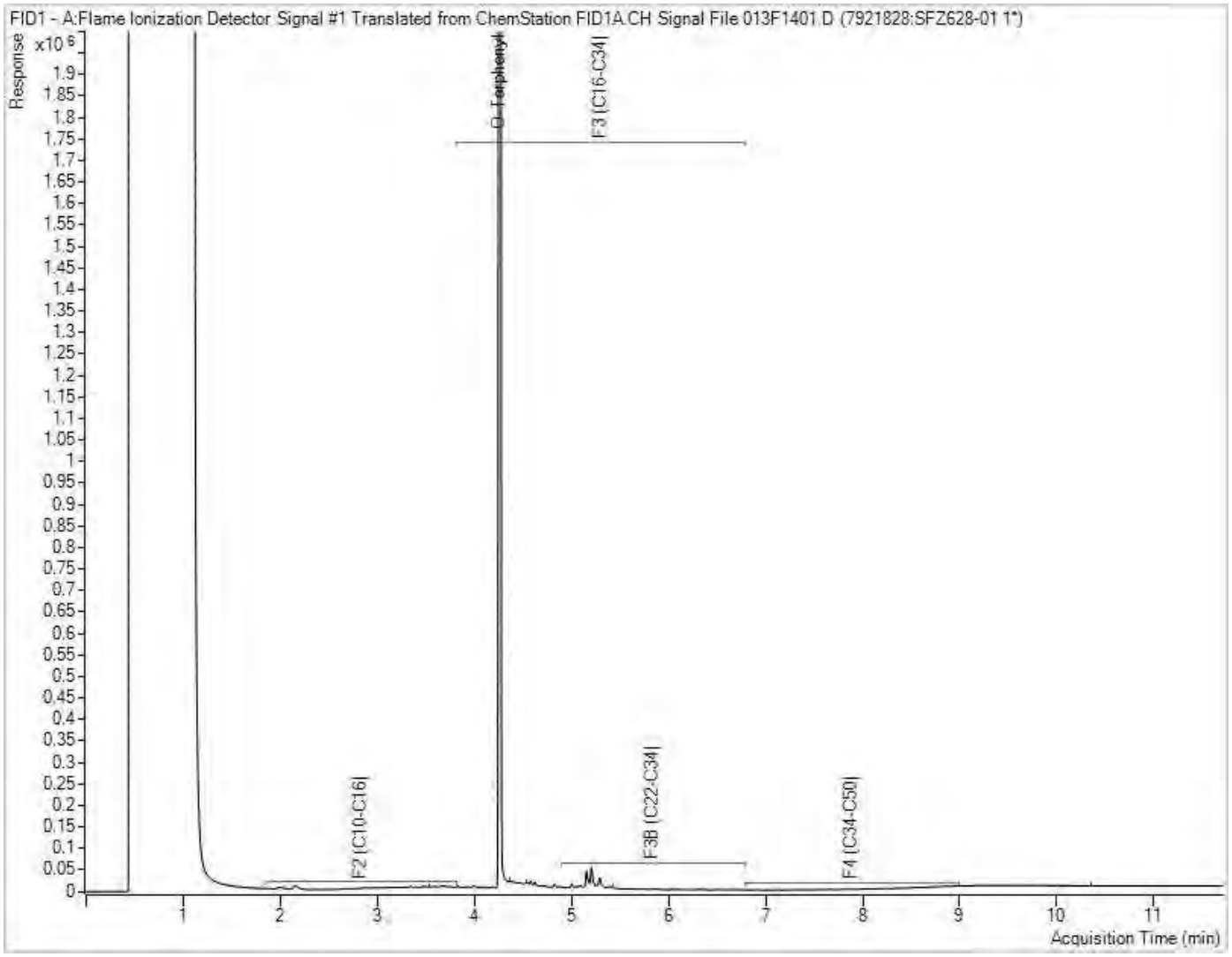
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-MW206-95

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



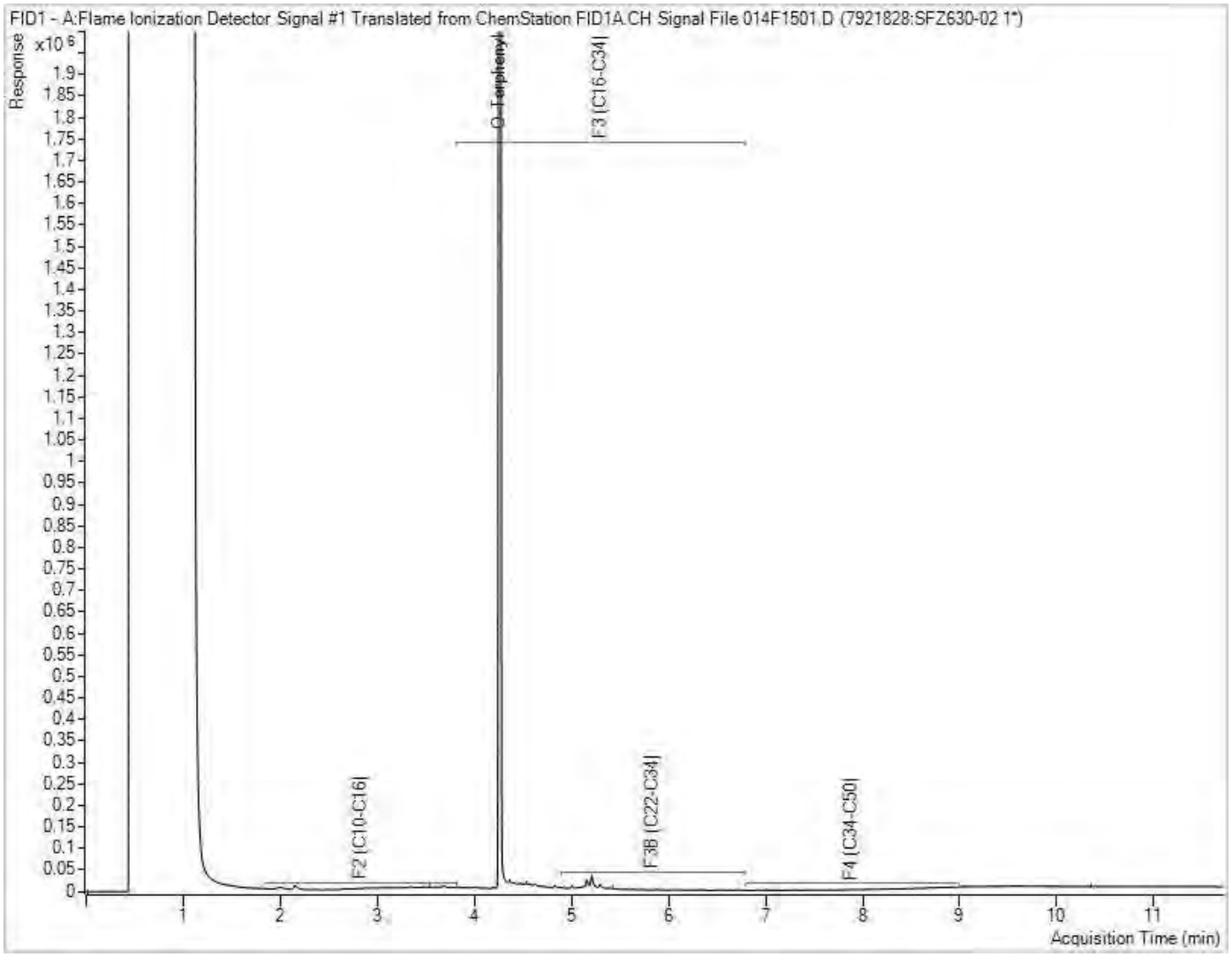
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



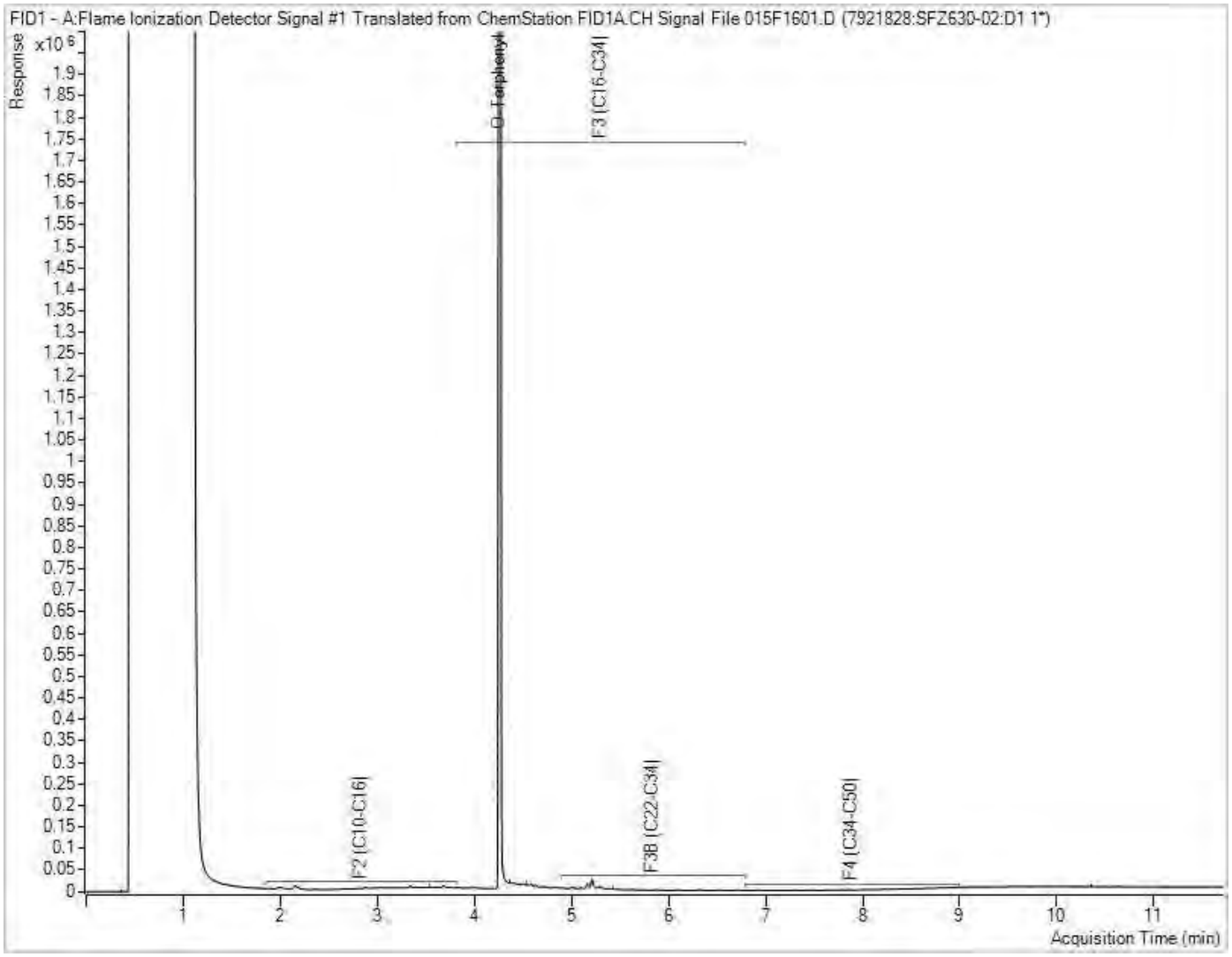
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

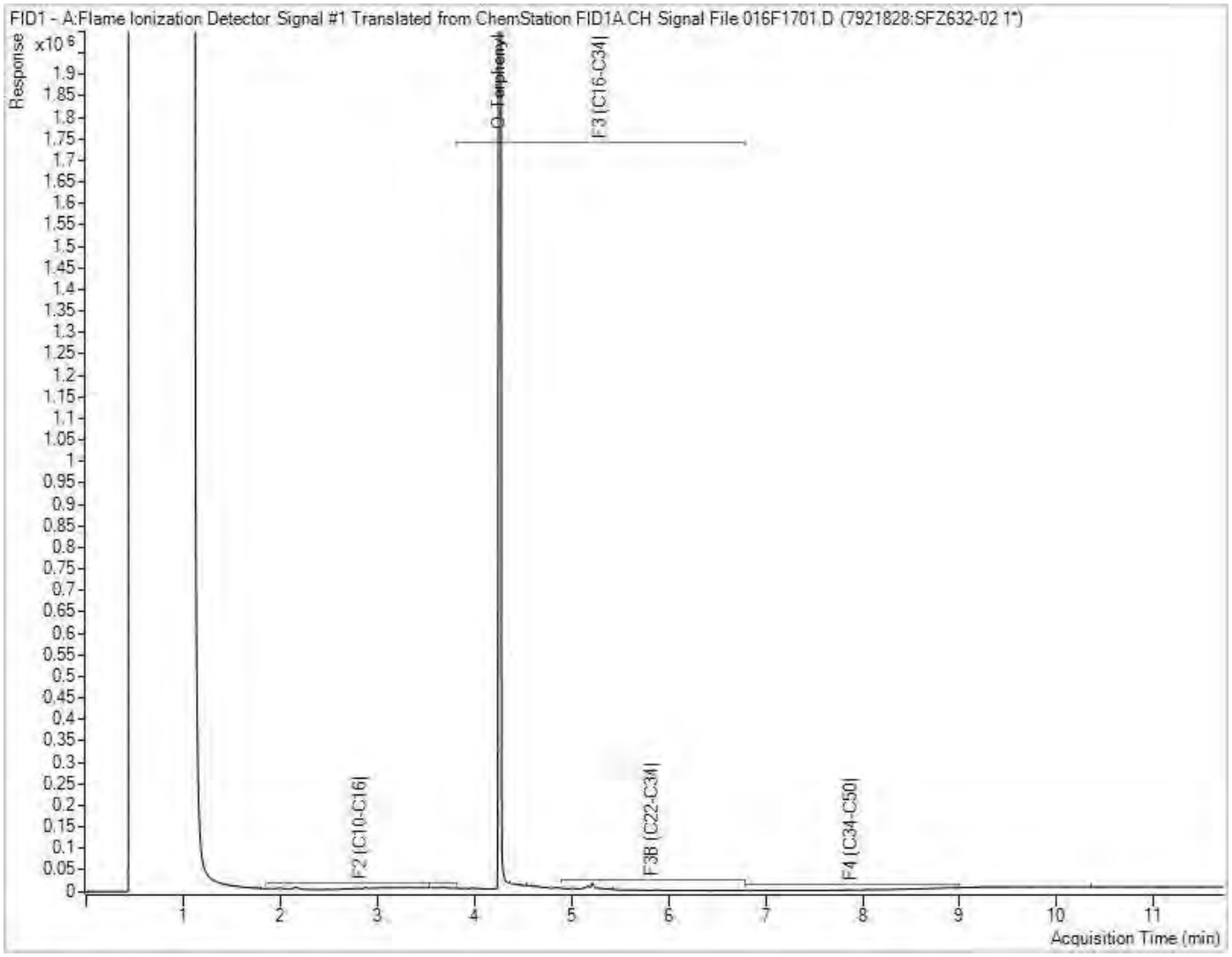


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/04/27
Bureau Veritas Sample: SFZ632

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH209-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

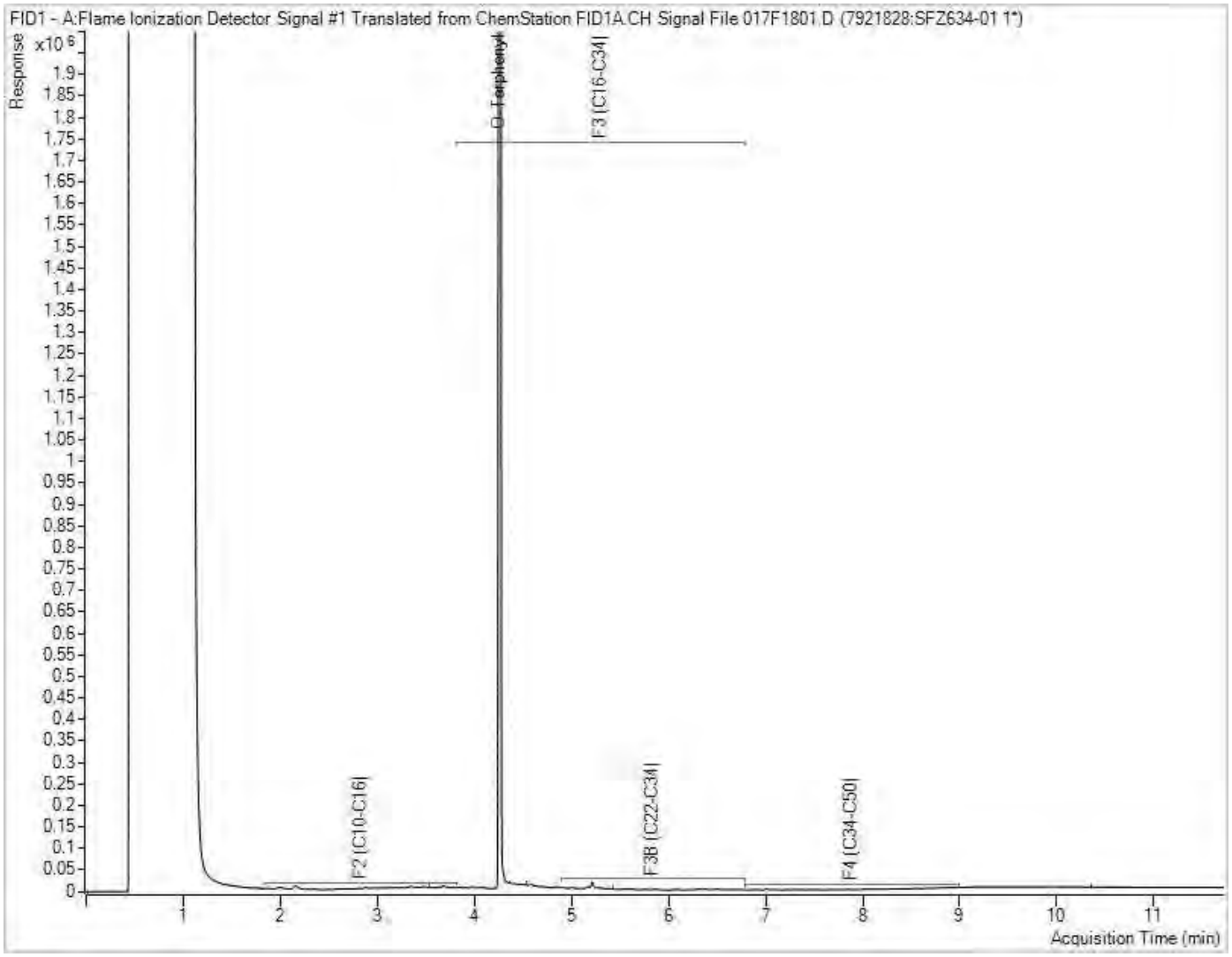


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/04/27
Bureau Veritas Sample: SFZ634

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH210-4

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 854744-20-01, 854744-19-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/02
Report #: R7108713
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C285331
Received: 2022/03/31, 15:47

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2022/04/06	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	6	2022/04/04	2022/04/05	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	4	N/A	2022/04/05		EPA 8260C m
Free (WAD) Cyanide	6	2022/04/04	2022/04/05	CAM SOP-00457	OMOE E3015 m
Conductivity	7	2022/04/05	2022/04/05	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/04/06	2022/04/06	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	6	2022/04/04	2022/04/05	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	2	N/A	2022/04/05	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	6	2022/04/05	2022/04/05	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	1	2022/04/28	2022/04/29	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	5	2022/04/06	2022/04/06	CAM SOP-00447	EPA 6020B m
Moisture	11	N/A	2022/04/01	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	4	2022/04/04	2022/04/05	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Soil	4	2022/04/04	2022/04/05	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT	6	2022/04/05	2022/04/05	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/05	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/06	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/04/04	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	3	N/A	2022/04/05	CAM SOP-00230	EPA 8260C m

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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Your C.O.C. #: 854744-20-01, 854744-19-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/02
Report #: R7108713
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C285331
Received: 2022/03/31, 15:47

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ626			SFZ626			SFZ627		
Sampling Date		2022/03/28 10:40			2022/03/28 10:40			2022/03/28 10:40		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-6	RDL	QC Batch	1-MW206-6 Lab-Dup	RDL	QC Batch	1-MW206-96	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.40		7914042				0.39		7914042
Inorganics										
Conductivity	mS/cm	0.60	0.002	7921840				0.54	0.002	7922590
Moisture	%	29	1.0	7916304				30	1.0	7916304
Available (CaCl2) pH	pH	6.80		7921914				6.59		7921914
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124				<0.01	0.01	7920124
Chromium (VI)	ug/g	<0.18	0.18	7919930				<0.18	0.18	7919930
Metals										
Hot Water Ext. Boron (B)	ug/g	0.74	0.050	7919910				0.69	0.050	7919910
Acid Extractable Antimony (Sb)	ug/g	0.45	0.20	7924311	0.42	0.20	7924311	0.27	0.20	7924311
Acid Extractable Arsenic (As)	ug/g	5.2	1.0	7924311	5.4	1.0	7924311	5.1	1.0	7924311
Acid Extractable Barium (Ba)	ug/g	93	0.50	7924311	94	0.50	7924311	96	0.50	7924311
Acid Extractable Beryllium (Be)	ug/g	0.76	0.20	7924311	0.73	0.20	7924311	0.79	0.20	7924311
Acid Extractable Boron (B)	ug/g	5.1	5.0	7924311	<5.0	5.0	7924311	<5.0	5.0	7924311
Acid Extractable Cadmium (Cd)	ug/g	0.31	0.10	7924311	0.25	0.10	7924311	0.27	0.10	7924311
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7924311	23	1.0	7924311	25	1.0	7924311
Acid Extractable Cobalt (Co)	ug/g	9.4	0.10	7924311	9.3	0.10	7924311	10	0.10	7924311
Acid Extractable Copper (Cu)	ug/g	16	0.50	7924311	16	0.50	7924311	17	0.50	7924311
Acid Extractable Lead (Pb)	ug/g	27	1.0	7924311	27	1.0	7924311	25	1.0	7924311
Acid Extractable Molybdenum (Mo)	ug/g	1.3	0.50	7924311	1.3	0.50	7924311	1.2	0.50	7924311
Acid Extractable Nickel (Ni)	ug/g	29	0.50	7924311	29	0.50	7924311	29	0.50	7924311
Acid Extractable Selenium (Se)	ug/g	0.65	0.50	7924311	0.58	0.50	7924311	0.57	0.50	7924311
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311	<0.20	0.20	7924311
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7924311	0.18	0.050	7924311	0.16	0.050	7924311
Acid Extractable Uranium (U)	ug/g	0.76	0.050	7924311	0.77	0.050	7924311	0.75	0.050	7924311
Acid Extractable Vanadium (V)	ug/g	37	5.0	7924311	36	5.0	7924311	36	5.0	7924311
Acid Extractable Zinc (Zn)	ug/g	72	5.0	7924311	70	5.0	7924311	70	5.0	7924311
Acid Extractable Mercury (Hg)	ug/g	0.14	0.050	7924311	0.11	0.050	7924311	0.089	0.050	7924311

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ629			SFZ630			SFZ630		
Sampling Date		2022/03/28 13:45			2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW207-14	RDL	QC Batch	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	2.2		7914042	1.5		7914042			
Inorganics										
Conductivity	mS/cm	1.7	0.002	7921849	0.78	0.002	7921840			
Moisture	%	26	1.0	7916304						
Available (CaCl2) pH	pH	7.84		7921914	7.91		7921914			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124	<0.01	0.01	7920124			
Chromium (VI)	ug/g	<0.18	0.18	7919930	<0.18	0.18	7919930			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.63	0.050	7919910	0.35	0.050	7919910	0.37	0.050	7919910
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311			
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7924311	4.1	1.0	7924311			
Acid Extractable Barium (Ba)	ug/g	130	0.50	7924311	97	0.50	7924311			
Acid Extractable Beryllium (Be)	ug/g	0.90	0.20	7924311	0.70	0.20	7924311			
Acid Extractable Boron (B)	ug/g	13	5.0	7924311	9.9	5.0	7924311			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7924311	<0.10	0.10	7924311			
Acid Extractable Chromium (Cr)	ug/g	28	1.0	7924311	23	1.0	7924311			
Acid Extractable Cobalt (Co)	ug/g	16	0.10	7924311	13	0.10	7924311			
Acid Extractable Copper (Cu)	ug/g	27	0.50	7924311	24	0.50	7924311			
Acid Extractable Lead (Pb)	ug/g	9.8	1.0	7924311	7.9	1.0	7924311			
Acid Extractable Molybdenum (Mo)	ug/g	0.62	0.50	7924311	0.52	0.50	7924311			
Acid Extractable Nickel (Ni)	ug/g	34	0.50	7924311	29	0.50	7924311			
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7924311	<0.50	0.50	7924311			
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7924311			
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	7924311	0.12	0.050	7924311			
Acid Extractable Uranium (U)	ug/g	0.81	0.050	7924311	0.80	0.050	7924311			
Acid Extractable Vanadium (V)	ug/g	35	5.0	7924311	31	5.0	7924311			
Acid Extractable Zinc (Zn)	ug/g	69	5.0	7924311	59	5.0	7924311			
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7924311	<0.050	0.050	7924311			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ631			SFZ631			SFZ633		
Sampling Date		2022/03/29 15:07			2022/03/29 15:07			2022/03/29 17:00		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-BH209-1	RDL	QC Batch	1-BH209-1 REPEAT	RDL	QC Batch	1-BH210-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.52		7914042				0.21		7914042
Inorganics										
Conductivity	mS/cm	0.60	0.002	7921849				0.26	0.002	7921849
Moisture	%	18	1.0	7916304				11	1.0	7916304
Available (CaCl2) pH	pH	7.62		7921914				7.35		7921914
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124				<0.01	0.01	7920124
Chromium (VI)	ug/g	<0.18	0.18	7919930				<0.18	0.18	7919930
Metals										
Hot Water Ext. Boron (B)	ug/g	0.094	0.050	7919910				0.082	0.050	7919910
Acid Extractable Antimony (Sb)	ug/g	0.23	0.20	7924311	0.23	0.20	7965275	<0.20	0.20	7924311
Acid Extractable Arsenic (As)	ug/g	5.3	1.0	7924311	5.4	1.0	7965275	2.8	1.0	7924311
Acid Extractable Barium (Ba)	ug/g	180	0.50	7924311	190	0.50	7965275	38	0.50	7924311
Acid Extractable Beryllium (Be)	ug/g	1.5	0.20	7924311	1.6	0.20	7965275	0.37	0.20	7924311
Acid Extractable Boron (B)	ug/g	5.6	5.0	7924311	7.1	5.0	7965275	<5.0	5.0	7924311
Acid Extractable Cadmium (Cd)	ug/g	0.15	0.10	7924311	0.12	0.10	7965275	0.10	0.10	7924311
Acid Extractable Chromium (Cr)	ug/g	30	1.0	7924311	31	1.0	7965275	12	1.0	7924311
Acid Extractable Cobalt (Co)	ug/g	43	0.10	7924311	41	0.10	7965275	6.3	0.10	7924311
Acid Extractable Copper (Cu)	ug/g	30	0.50	7924311	29	0.50	7965275	13	0.50	7924311
Acid Extractable Lead (Pb)	ug/g	15	1.0	7924311	14	1.0	7965275	10	1.0	7924311
Acid Extractable Molybdenum (Mo)	ug/g	0.94	0.50	7924311	0.80	0.50	7965275	<0.50	0.50	7924311
Acid Extractable Nickel (Ni)	ug/g	36	0.50	7924311	35	0.50	7965275	12	0.50	7924311
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7924311	<0.50	0.50	7965275	<0.50	0.50	7924311
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924311	<0.20	0.20	7965275	<0.20	0.20	7924311
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7924311	0.17	0.050	7965275	0.071	0.050	7924311
Acid Extractable Uranium (U)	ug/g	0.77	0.050	7924311	0.78	0.050	7965275	0.42	0.050	7924311
Acid Extractable Vanadium (V)	ug/g	42	5.0	7924311	44	5.0	7965275	19	5.0	7924311
Acid Extractable Zinc (Zn)	ug/g	76	5.0	7924311	74	5.0	7965275	44	5.0	7924311
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7924311	<0.050	0.050	7965275	<0.050	0.050	7924311

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SFZ633		
Sampling Date		2022/03/29 17:00		
COC Number		854744-20-01		
	UNITS	**1-BH210-1 Lab-Dup**	**RDL**	**QC Batch**
Inorganics				
WAD Cyanide (Free)	ug/g	<0.01	0.01	7920124
Chromium (VI)	ug/g	0.23	0.18	7919930

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SFZ624	SFZ625	SFZ628	SFZ630		
Sampling Date		2022/03/28 10:30	2022/03/28 10:30	2022/03/28 13:30	2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01	854744-20-01	854744-20-01		
	UNITS	1-MW206-5	1-MW206-95	1-MW207-13	1-MW208-8	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	7914038
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(b/j)fluoranthene	ug/g	0.0065	0.0075	<0.0050	<0.0050	0.0050	7921008
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Chrysene	ug/g	0.0053	0.0051	<0.0050	<0.0050	0.0050	7921008
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Fluoranthene	ug/g	0.0092	0.014	<0.0050	<0.0050	0.0050	7921008
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7921008
Naphthalene	ug/g	<0.0050	0.0069	<0.0050	<0.0050	0.0050	7921008
Phenanthrene	ug/g	0.0075	0.010	<0.0050	<0.0050	0.0050	7921008
Pyrene	ug/g	0.0073	0.017	<0.0050	<0.0050	0.0050	7921008
Surrogate Recovery (%)							
D10-Anthracene	%	77	79	101	93		7921008
D14-Terphenyl (FS)	%	92	91	102	93		7921008
D8-Acenaphthylene	%	82	87	91	77		7921008

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PCBS (SOIL)

Bureau Veritas ID		SFZ626	SFZ626	SFZ627	SFZ629	SFZ630		
Sampling Date		2022/03/28 10:40	2022/03/28 10:40	2022/03/28 10:40	2022/03/28 13:45	2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01	854744-20-01	854744-20-01	854744-20-01		
	UNITS	1-MW206-6	1-MW206-6 Lab-Dup	1-MW206-96	1-MW207-14	1-MW208-8	RDL	QC Batch
PCBs								
Aroclor 1242	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Aroclor 1248	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Aroclor 1254	ug/g	<0.010	<0.010	0.010	<0.010	<0.010	0.010	7921559
Aroclor 1260	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7921559
Total PCB	ug/g	<0.010	<0.010	0.010	<0.010	<0.010	0.010	7921559
Surrogate Recovery (%)								
Decachlorobiphenyl	%	101	107	95	99	103		7921559

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SFZ632	SFZ634		
Sampling Date		2022/03/29 15:25	2022/03/29 17:30		
COC Number		854744-20-01	854744-19-01		
	UNITS	1-BH209-4	1-BH210-4	RDL	QC Batch
Inorganics					
Moisture	%	18	20	1.0	7916304
BTEX & F1 Hydrocarbons					
Benzene	ug/g	<0.020	<0.020	0.020	7921464
Toluene	ug/g	<0.020	<0.020	0.020	7921464
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7921464
o-Xylene	ug/g	<0.020	<0.020	0.020	7921464
p+m-Xylene	ug/g	<0.040	<0.040	0.040	7921464
Total Xylenes	ug/g	<0.040	<0.040	0.040	7921464
F1 (C6-C10)	ug/g	<10	<10	10	7921464
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7921464
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7921828
Reached Baseline at C50	ug/g	Yes	Yes		7921828
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	91	89		7921464
4-Bromofluorobenzene	%	81	93		7921464
D10-o-Xylene	%	95	94		7921464
D4-1,2-Dichloroethane	%	97	99		7921464
o-Terphenyl	%	94	93		7921828

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ624			SFZ624			SFZ625		
Sampling Date		2022/03/28 10:30			2022/03/28 10:30			2022/03/28 10:30		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-5	RDL	QC Batch	1-MW206-5 Lab-Dup	RDL	QC Batch	1-MW206-95	RDL	QC Batch
Inorganics										
Moisture	%	32	1.0	7916304				31	1.0	7916304
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7914647				<0.050	0.050	7914647
Volatile Organics										
Acetone (2-Propanone)	ug/g	<0.49	0.49	7918152	<0.49	0.49	7918152	<0.49	0.49	7918152
Benzene	ug/g	0.047	0.0060	7918152	0.050	0.0060	7918152	0.057	0.0060	7918152
Bromodichloromethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Bromoform	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Bromomethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Carbon Tetrachloride	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Chlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Chloroform	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Dibromochloromethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,3-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,4-Dichlorobenzene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1-Dichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichloroethane	ug/g	<0.049	0.049	7918152	<0.049	0.049	7918152	<0.049	0.049	7918152
1,1-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,2-Dichloropropane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7918152	<0.030	0.030	7918152	<0.030	0.030	7918152
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Ethylbenzene	ug/g	<0.010	0.010	7918152	<0.010	0.010	7918152	0.026	0.010	7918152
Ethylene Dibromide	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Hexane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	7918152	<0.049	0.049	7918152	<0.049	0.049	7918152
Methyl Ethyl Ketone (2-Butanone)	ug/g	0.42	0.40	7918152	0.46	0.40	7918152	<0.40	0.40	7918152

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ624			SFZ624			SFZ625		
Sampling Date		2022/03/28 10:30			2022/03/28 10:30			2022/03/28 10:30		
COC Number		854744-20-01			854744-20-01			854744-20-01		
	UNITS	1-MW206-5	RDL	QC Batch	1-MW206-5 Lab-Dup	RDL	QC Batch	1-MW206-95	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	7918152	<0.40	0.40	7918152	<0.40	0.40	7918152
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Styrene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Tetrachloroethylene	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Toluene	ug/g	0.24	0.020	7918152	0.23	0.020	7918152	0.41	0.020	7918152
1,1,1-Trichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
1,1,2-Trichloroethane	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Trichloroethylene	ug/g	<0.010	0.010	7918152	<0.010	0.010	7918152	<0.010	0.010	7918152
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	7918152	<0.040	0.040	7918152	<0.040	0.040	7918152
Vinyl Chloride	ug/g	<0.019	0.019	7918152	<0.019	0.019	7918152	<0.019	0.019	7918152
p+m-Xylene	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
o-Xylene	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
Total Xylenes	ug/g	<0.020	0.020	7918152	<0.020	0.020	7918152	<0.020	0.020	7918152
F1 (C6-C10)	ug/g	<10	10	7918152	<10	10	7918152	<10	10	7918152
F1 (C6-C10) - BTEX	ug/g	<10	10	7918152	<10	10	7918152	<10	10	7918152
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	83	10	7921828				36	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	1100	50	7921828				620	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7921828				<50	50	7921828
Reached Baseline at C50	ug/g	Yes		7921828				Yes		7921828
Surrogate Recovery (%)										
o-Terphenyl	%	91		7921828				91		7921828
4-Bromofluorobenzene	%	96		7918152	97		7918152	95		7918152
D10-o-Xylene	%	90		7918152	84		7918152	84		7918152
D4-1,2-Dichloroethane	%	117		7918152	120		7918152	116		7918152
D8-Toluene	%	95		7918152	92		7918152	96		7918152

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ628	SFZ630			SFZ630		
Sampling Date		2022/03/28 13:30	2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01			854744-20-01		
	UNITS	1-MW207-13	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	22	18	1.0	7916304	19	1.0	7916304
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7914647			
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7918152			
Benzene	ug/g	<0.0060	<0.0060	0.0060	7918152			
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7918152			
Bromoform	ug/g	<0.040	<0.040	0.040	7918152			
Bromomethane	ug/g	<0.040	<0.040	0.040	7918152			
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7918152			
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
Chloroform	ug/g	<0.040	<0.040	0.040	7918152			
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7918152			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7918152			
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7918152			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7918152			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7918152			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7918152			
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7918152			
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7918152			
Hexane	ug/g	<0.040	<0.040	0.040	7918152			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7918152			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7918152			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SFZ628	SFZ630			SFZ630		
Sampling Date		2022/03/28 13:30	2022/03/29 12:00			2022/03/29 12:00		
COC Number		854744-20-01	854744-20-01			854744-20-01		
	UNITS	1-MW207-13	1-MW208-8	RDL	QC Batch	1-MW208-8 Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7918152			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7918152			
Styrene	ug/g	<0.040	<0.040	0.040	7918152			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7918152			
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7918152			
Toluene	ug/g	<0.020	<0.020	0.020	7918152			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7918152			
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7918152			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7918152			
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7918152			
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7918152			
o-Xylene	ug/g	<0.020	<0.020	0.020	7918152			
Total Xylenes	ug/g	<0.020	<0.020	0.020	7918152			
F1 (C6-C10)	ug/g	<10	<10	10	7918152			
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7918152			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7921828	<10	10	7921828
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7921828	<50	50	7921828
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7921828	<50	50	7921828
Reached Baseline at C50	ug/g	Yes	Yes		7921828	Yes		7921828
Surrogate Recovery (%)								
o-Terphenyl	%	94	94		7921828	93		7921828
4-Bromofluorobenzene	%	96	96		7918152			
D10-o-Xylene	%	89	89		7918152			
D4-1,2-Dichloroethane	%	114	118		7918152			
D8-Toluene	%	96	96		7918152			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SFZ632			SFZ634		
Sampling Date		2022/03/29 15:25			2022/03/29 17:30		
COC Number		854744-20-01			854744-19-01		
	UNITS	1-BH209-4	RDL	QC Batch	1-BH210-4	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.84		7914042	0.85		7914042
Inorganics							
Conductivity	mS/cm	0.38	0.002	7922590	2.6	0.002	7924739
Miscellaneous Parameters							
Grain Size	%				FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%				98	1	7952276
Sieve - #200 (>0.075mm)	%				2	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFZ624
Sample ID: 1-MW206-5
Matrix: Soil

Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/04	Jett Wu

Bureau Veritas ID: SFZ624 Dup
Sample ID: 1-MW206-5
Matrix: Soil

Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/04	Jett Wu

Bureau Veritas ID: SFZ625
Sample ID: 1-MW206-95
Matrix: Soil

Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ626
Sample ID: 1-MW206-6
Matrix: Soil

Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921840	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/05	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SFZ626 Dup
Sample ID: 1-MW206-6
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour

Bureau Veritas ID: SFZ627
Sample ID: 1-MW206-96
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7922590	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ628
Sample ID: 1-MW207-13
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ629
Sample ID: 1-MW207-14
Matrix: Soil
Collected: 2022/03/28
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFZ630
Sample ID: 1-MW208-8
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7914038	N/A	2022/04/06	Automated Statchk
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
1,3-Dichloropropene Sum	CALC	7914647	N/A	2022/04/05	Automated Statchk
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921840	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7921008	2022/04/04	2022/04/05	Mitesh Raj
Polychlorinated Biphenyl in Soil	GC/ECD	7921559	2022/04/04	2022/04/05	Farag Mansour
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/05	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7918152	N/A	2022/04/05	Jett Wu

Bureau Veritas ID: SFZ630 Dup
Sample ID: 1-MW208-8
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang

Bureau Veritas ID: SFZ631
Sample ID: 1-BH209-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7965275	2022/04/28	2022/04/29	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ632
Sample ID: 1-BH209-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7922590	2022/04/05	2022/04/05	Kien Tran

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Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SFZ632
Sample ID: 1-BH209-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7921464	N/A	2022/04/05	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ633
Sample ID: 1-BH210-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7919910	2022/04/04	2022/04/05	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Conductivity	AT	7921849	2022/04/05	2022/04/05	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7924311	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
pH CaCl2 EXTRACT	AT	7921914	2022/04/05	2022/04/05	Surinder Rai
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

Bureau Veritas ID: SFZ633 Dup
Sample ID: 1-BH210-1
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7920124	2022/04/04	2022/04/05	Nimarta Singh
Hexavalent Chromium in Soil by IC	IC/SPEC	7919930	2022/04/04	2022/04/05	Rupinder Sihota

Bureau Veritas ID: SFZ634
Sample ID: 1-BH210-4
Matrix: Soil

Collected: 2022/03/29
Shipped:
Received: 2022/03/31

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7924739	2022/04/06	2022/04/06	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7921464	N/A	2022/04/05	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7921828	2022/04/05	2022/04/05	Jeevaraj Jeevaratrnam
Moisture	BAL	7916304	N/A	2022/04/01	Min Yang
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7914042	N/A	2022/04/06	Automated Statchk

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GENERAL COMMENTS

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

Package 1	4.3°C

Revised Report[2022/05/02]:Report re-issued to include re-analysis for ICPMS metals for sample 1-BH209-1, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample 1-BH210-4 as per client.

Sample SFZ632 [1-BH209-4] : 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 SFZ634 [1-BH210-4] : 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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7918152	4-Bromofluorobenzene	2022/04/04	99	60 - 140	99	60 - 140	96	%				
7918152	D10-o-Xylene	2022/04/04	93	60 - 130	97	60 - 130	85	%				
7918152	D4-1,2-Dichloroethane	2022/04/04	119	60 - 140	116	60 - 140	116	%				
7918152	D8-Toluene	2022/04/04	99	60 - 140	101	60 - 140	97	%				
7921008	D10-Anthracene	2022/04/05	86	50 - 130	103	50 - 130	101	%				
7921008	D14-Terphenyl (FS)	2022/04/05	88	50 - 130	102	50 - 130	102	%				
7921008	D8-Acenaphthylene	2022/04/05	76	50 - 130	96	50 - 130	83	%				
7921464	1,4-Difluorobenzene	2022/04/05	87	60 - 140	86	60 - 140	90	%				
7921464	4-Bromofluorobenzene	2022/04/05	118	60 - 140	117	60 - 140	78	%				
7921464	D10-o-Xylene	2022/04/05	94	60 - 140	97	60 - 140	96	%				
7921464	D4-1,2-Dichloroethane	2022/04/05	94	60 - 140	92	60 - 140	99	%				
7921559	Decachlorobiphenyl	2022/04/05	99	60 - 130	93	60 - 130	96	%				
7921828	o-Terphenyl	2022/04/05	91	60 - 130	92	60 - 130	94	%				
7916304	Moisture	2022/04/01							1.1	20		
7918152	1,1,1,2-Tetrachloroethane	2022/04/04	96	60 - 140	110	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,1-Trichloroethane	2022/04/04	100	60 - 140	117	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,2,2-Tetrachloroethane	2022/04/04	93	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1,2-Trichloroethane	2022/04/04	109	60 - 140	122	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1-Dichloroethane	2022/04/04	91	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
7918152	1,1-Dichloroethylene	2022/04/04	98	60 - 140	113	60 - 130	<0.040	ug/g	NC	50		
7918152	1,2-Dichlorobenzene	2022/04/04	90	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7918152	1,2-Dichloroethane	2022/04/04	102	60 - 140	114	60 - 130	<0.049	ug/g	NC	50		
7918152	1,2-Dichloropropane	2022/04/04	90	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7918152	1,3-Dichlorobenzene	2022/04/04	89	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7918152	1,4-Dichlorobenzene	2022/04/04	104	60 - 140	118	60 - 130	<0.040	ug/g	NC	50		
7918152	Acetone (2-Propanone)	2022/04/04	106	60 - 140	115	60 - 140	<0.49	ug/g	NC	50		
7918152	Benzene	2022/04/04	87	60 - 140	99	60 - 130	<0.0060	ug/g	5.3	50		
7918152	Bromodichloromethane	2022/04/04	102	60 - 140	115	60 - 130	<0.040	ug/g	NC	50		
7918152	Bromoform	2022/04/04	95	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	Bromomethane	2022/04/04	97	60 - 140	108	60 - 140	<0.040	ug/g	NC	50		
7918152	Carbon Tetrachloride	2022/04/04	100	60 - 140	118	60 - 130	<0.040	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7918152	Chlorobenzene	2022/04/04	90	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
7918152	Chloroethane	2022/04/04							NC	50		
7918152	Chloroform	2022/04/04	99	60 - 140	112	60 - 130	<0.040	ug/g	NC	50		
7918152	Chloromethane	2022/04/04							NC	50		
7918152	cis-1,2-Dichloroethylene	2022/04/04	94	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	cis-1,3-Dichloropropene	2022/04/04	85	60 - 140	95	60 - 130	<0.030	ug/g	NC	50		
7918152	Dibromochloromethane	2022/04/04	96	60 - 140	107	60 - 130	<0.040	ug/g	NC	50		
7918152	Dichlorodifluoromethane (FREON 12)	2022/04/04	102	60 - 140	118	60 - 140	<0.040	ug/g	NC	50		
7918152	Ethylbenzene	2022/04/04	83	60 - 140	97	60 - 130	<0.010	ug/g	NC	50		
7918152	Ethylene Dibromide	2022/04/04	91	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7918152	F1 (C6-C10) - BTEX	2022/04/04					<10	ug/g	NC	30		
7918152	F1 (C6-C10)	2022/04/04	74	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7918152	Hexane	2022/04/04	93	60 - 140	107	60 - 130	<0.040	ug/g	NC	50		
7918152	Methyl Ethyl Ketone (2-Butanone)	2022/04/04	99	60 - 140	109	60 - 140	<0.40	ug/g	9.3	50		
7918152	Methyl Isobutyl Ketone	2022/04/04	102	60 - 140	114	60 - 130	<0.40	ug/g	NC	50		
7918152	Methyl t-butyl ether (MTBE)	2022/04/04	88	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7918152	Methylene Chloride(Dichloromethane)	2022/04/04	95	60 - 140	105	60 - 130	<0.049	ug/g	NC	50		
7918152	o-Xylene	2022/04/04	83	60 - 140	98	60 - 130	<0.020	ug/g	NC	50		
7918152	p+m-Xylene	2022/04/04	87	60 - 140	102	60 - 130	<0.020	ug/g	NC	50		
7918152	Styrene	2022/04/04	95	60 - 140	110	60 - 130	<0.040	ug/g	NC	50		
7918152	Tetrachloroethylene	2022/04/04	84	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7918152	Toluene	2022/04/04	84	60 - 140	98	60 - 130	<0.020	ug/g	3.7	50		
7918152	Total Xylenes	2022/04/04					<0.020	ug/g	NC	50		
7918152	trans-1,2-Dichloroethylene	2022/04/04	92	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7918152	trans-1,3-Dichloropropene	2022/04/04	92	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7918152	Trichloroethylene	2022/04/04	96	60 - 140	110	60 - 130	<0.010	ug/g	NC	50		
7918152	Trichlorofluoromethane (FREON 11)	2022/04/04	105	60 - 140	122	60 - 130	<0.040	ug/g	NC	50		
7918152	Vinyl Chloride	2022/04/04	96	60 - 140	110	60 - 130	<0.019	ug/g	NC	50		
7919910	Hot Water Ext. Boron (B)	2022/04/05	100	75 - 125	98	75 - 125	<0.050	ug/g	5.0	40		
7919930	Chromium (VI)	2022/04/05	88	75 - 125	92	N/A	<0.18	ug/g	25	35		
7920124	WAD Cyanide (Free)	2022/04/05	76	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7921008	1-Methylnaphthalene	2022/04/05	103	50 - 130	105	50 - 130	<0.0050	ug/g	20	40		
7921008	2-Methylnaphthalene	2022/04/05	93	50 - 130	100	50 - 130	<0.0050	ug/g	22	40		
7921008	Acenaphthene	2022/04/05	97	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7921008	Acenaphthylene	2022/04/05	97	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7921008	Anthracene	2022/04/05	97	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(a)anthracene	2022/04/05	105	50 - 130	115	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(a)pyrene	2022/04/05	91	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(b/j)fluoranthene	2022/04/05	94	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(g,h,i)perylene	2022/04/05	97	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7921008	Benzo(k)fluoranthene	2022/04/05	91	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40		
7921008	Chrysene	2022/04/05	99	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7921008	Dibenzo(a,h)anthracene	2022/04/05	105	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7921008	Fluoranthene	2022/04/05	107	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7921008	Fluorene	2022/04/05	104	50 - 130	113	50 - 130	<0.0050	ug/g	NC	40		
7921008	Indeno(1,2,3-cd)pyrene	2022/04/05	103	50 - 130	118	50 - 130	<0.0050	ug/g	NC	40		
7921008	Naphthalene	2022/04/05	69	50 - 130	91	50 - 130	<0.0050	ug/g	22	40		
7921008	Phenanthrene	2022/04/05	98	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7921008	Pyrene	2022/04/05	103	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40		
7921464	Benzene	2022/04/05	90	50 - 140	85	50 - 140	<0.020	ug/g	NC	50		
7921464	Ethylbenzene	2022/04/05	95	50 - 140	94	50 - 140	<0.020	ug/g	NC	50		
7921464	F1 (C6-C10) - BTEX	2022/04/05					<10	ug/g	NC	30		
7921464	F1 (C6-C10)	2022/04/05	81	60 - 140	89	80 - 120	<10	ug/g	NC	30		
7921464	o-Xylene	2022/04/05	94	50 - 140	98	50 - 140	<0.020	ug/g	NC	50		
7921464	p+m-Xylene	2022/04/05	92	50 - 140	95	50 - 140	<0.040	ug/g	NC	50		
7921464	Toluene	2022/04/05	87	50 - 140	85	50 - 140	<0.020	ug/g	NC	50		
7921464	Total Xylenes	2022/04/05					<0.040	ug/g	NC	50		
7921559	Aroclor 1016	2022/04/05							NC	50		
7921559	Aroclor 1221	2022/04/05							NC	50		
7921559	Aroclor 1232	2022/04/05							NC	50		
7921559	Aroclor 1242	2022/04/05					<0.010	ug/g	NC	50		
7921559	Aroclor 1248	2022/04/05					<0.010	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7921559	Aroclor 1254	2022/04/05					<0.010	ug/g	NC	50		
7921559	Aroclor 1260	2022/04/05	110	30 - 130	104	30 - 130	<0.010	ug/g	NC	50		
7921559	Aroclor 1262	2022/04/05							NC	50		
7921559	Aroclor 1268	2022/04/05							NC	50		
7921559	Total PCB	2022/04/05	110	30 - 130	104	30 - 130	<0.010	ug/g	NC	50		
7921828	Diesel (C10-C24)	2022/04/05							NC	30		
7921828	Diesel (C11-C32)	2022/04/05							NC	30		
7921828	F2 (C10-C16 Hydrocarbons)	2022/04/05	96	60 - 130	97	80 - 120	<10	ug/g	NC	30		
7921828	F3 (C16-C34 Hydrocarbons)	2022/04/05	96	60 - 130	96	80 - 120	<50	ug/g	NC	30		
7921828	F3A (C16-C22 Hydrocarbons)	2022/04/05							NC	30		
7921828	F3B (C22-C34 Hydrocarbons)	2022/04/05							NC	30		
7921828	F4 (C34-C50 Hydrocarbons)	2022/04/05	97	60 - 130	97	80 - 120	<50	ug/g	NC	30		
7921840	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	4.4	10		
7921849	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	1.7	10		
7921914	Available (CaCl2) pH	2022/04/05			100	97 - 103			0.87	N/A		
7922590	Conductivity	2022/04/05			99	90 - 110	<0.002	mS/cm	2.9	10		
7924311	Acid Extractable Aluminum (Al)	2022/04/06							4.5	30		
7924311	Acid Extractable Antimony (Sb)	2022/04/06	89	75 - 125	103	80 - 120	<0.20	ug/g	7.3	30		
7924311	Acid Extractable Arsenic (As)	2022/04/06	96	75 - 125	97	80 - 120	<1.0	ug/g	2.2	30		
7924311	Acid Extractable Barium (Ba)	2022/04/06	NC	75 - 125	94	80 - 120	<0.50	ug/g	0.57	30		
7924311	Acid Extractable Beryllium (Be)	2022/04/06	98	75 - 125	97	80 - 120	<0.20	ug/g	3.9	30		
7924311	Acid Extractable Bismuth (Bi)	2022/04/06							NC	30		
7924311	Acid Extractable Boron (B)	2022/04/06	69 (1)	75 - 125	96	80 - 120	<5.0	ug/g	2.0	30		
7924311	Acid Extractable Cadmium (Cd)	2022/04/06	99	75 - 125	97	80 - 120	<0.10	ug/g	20	30		
7924311	Acid Extractable Calcium (Ca)	2022/04/06							3.5	30		
7924311	Acid Extractable Chromium (Cr)	2022/04/06	102	75 - 125	99	80 - 120	<1.0	ug/g	3.4	30		
7924311	Acid Extractable Cobalt (Co)	2022/04/06	101	75 - 125	99	80 - 120	<0.10	ug/g	1.2	30		
7924311	Acid Extractable Copper (Cu)	2022/04/06	97	75 - 125	97	80 - 120	<0.50	ug/g	0.92	30		
7924311	Acid Extractable Iron (Fe)	2022/04/06							1.6	30		
7924311	Acid Extractable Lead (Pb)	2022/04/06	NC	75 - 125	101	80 - 120	<1.0	ug/g	0.071	30		
7924311	Acid Extractable Lithium (Li)	2022/04/06							1.6	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924311	Acid Extractable Magnesium (Mg)	2022/04/06							2.6	30		
7924311	Acid Extractable Manganese (Mn)	2022/04/06							2.5	30		
7924311	Acid Extractable Mercury (Hg)	2022/04/06	88	75 - 125	92	80 - 120	<0.050	ug/g	28	30		
7924311	Acid Extractable Molybdenum (Mo)	2022/04/06	100	75 - 125	97	80 - 120	<0.50	ug/g	1.0	30		
7924311	Acid Extractable Nickel (Ni)	2022/04/06	NC	75 - 125	98	80 - 120	<0.50	ug/g	0.58	30		
7924311	Acid Extractable Phosphorus (P)	2022/04/06							1.1	30		
7924311	Acid Extractable Potassium (K)	2022/04/06							1.8	30		
7924311	Acid Extractable Selenium (Se)	2022/04/06	94	75 - 125	96	80 - 120	<0.50	ug/g	10	30		
7924311	Acid Extractable Silver (Ag)	2022/04/06	101	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7924311	Acid Extractable Sodium (Na)	2022/04/06							3.5	30		
7924311	Acid Extractable Strontium (Sr)	2022/04/06							2.0	30		
7924311	Acid Extractable Thallium (Tl)	2022/04/06	100	75 - 125	103	80 - 120	<0.050	ug/g	5.0	30		
7924311	Acid Extractable Tin (Sn)	2022/04/06							4.1	30		
7924311	Acid Extractable Titanium (Ti)	2022/04/06							6.2	30		
7924311	Acid Extractable Uranium (U)	2022/04/06	103	75 - 125	102	80 - 120	<0.050	ug/g	1.2	30		
7924311	Acid Extractable Vanadium (V)	2022/04/06	NC	75 - 125	100	80 - 120	<5.0	ug/g	3.0	30		
7924311	Acid Extractable Zinc (Zn)	2022/04/06	NC	75 - 125	96	80 - 120	<5.0	ug/g	1.9	30		
7924739	Conductivity	2022/04/06			99	90 - 110	<0.002	mS/cm	1.7	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7965275	Acid Extractable Antimony (Sb)	2022/04/29	95	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7965275	Acid Extractable Arsenic (As)	2022/04/29	92	75 - 125	100	80 - 120	<1.0	ug/g	5.7	30		
7965275	Acid Extractable Barium (Ba)	2022/04/29	86	75 - 125	96	80 - 120	<0.50	ug/g	4.5	30		
7965275	Acid Extractable Beryllium (Be)	2022/04/29	81	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7965275	Acid Extractable Boron (B)	2022/04/29	77	75 - 125	96	80 - 120	<5.0	ug/g	NC	30		
7965275	Acid Extractable Cadmium (Cd)	2022/04/29	93	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
7965275	Acid Extractable Chromium (Cr)	2022/04/29	96	75 - 125	98	80 - 120	<1.0	ug/g	4.3	30		
7965275	Acid Extractable Cobalt (Co)	2022/04/29	92	75 - 125	99	80 - 120	<0.10	ug/g	3.2	30		
7965275	Acid Extractable Copper (Cu)	2022/04/29	91	75 - 125	98	80 - 120	<0.50	ug/g	0.073	30		
7965275	Acid Extractable Lead (Pb)	2022/04/29	93	75 - 125	97	80 - 120	<1.0	ug/g	1.8	30		
7965275	Acid Extractable Mercury (Hg)	2022/04/29	79	75 - 125	82	80 - 120	<0.050	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7965275	Acid Extractable Molybdenum (Mo)	2022/04/29	97	75 - 125	97	80 - 120	<0.50	ug/g	NC	30		
7965275	Acid Extractable Nickel (Ni)	2022/04/29	89	75 - 125	97	80 - 120	<0.50	ug/g	0.35	30		
7965275	Acid Extractable Selenium (Se)	2022/04/29	93	75 - 125	100	80 - 120	<0.50	ug/g	NC	30		
7965275	Acid Extractable Silver (Ag)	2022/04/29	94	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7965275	Acid Extractable Thallium (Tl)	2022/04/29	95	75 - 125	99	80 - 120	<0.050	ug/g	0.0055	30		
7965275	Acid Extractable Uranium (U)	2022/04/29	94	75 - 125	97	80 - 120	<0.050	ug/g	2.6	30		
7965275	Acid Extractable Vanadium (V)	2022/04/29	99	75 - 125	100	80 - 120	<5.0	ug/g	9.2	30		
7965275	Acid Extractable Zinc (Zn)	2022/04/29	92	75 - 125	94	80 - 120	<5.0	ug/g	4.8	30		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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) Matrix Spike exceeds acceptance limits, sample inhomogeneity suspected.

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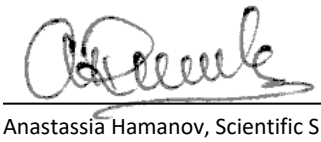
Bureau Veritas Job #: C285331
Report Date: 2022/05/02

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA RSC 1
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30085 Parkland Fuel Corporation~~ #4398 Terrapex	Company Name: ~~#27390 Terrapex Environmental Ltd~~	Quotation #: ~~B93691~~ C21481	Bureau Veritas Job #:
Attention: ~~Sbdiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~ Roy Yu	P.O. #: ~~TBD~~	Bottle Order #: 854744
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd, Toronto	Address: ~~65 Nebo Road~~ Hamilton ON L8W 2C8	Project: ~~CB937-01~~ CT3273.01	COC #:
~~Calgary AB T2P 4H4~~ ON. M3B 2R7	Tel: ~~(905) 632-5999~~ 416-245-0011 Fax: 245-0011 x 229	Project Name: Grand Niagara RSCs	Project Manager:
Tel: ~~(403) 667-2500~~ 416-245-0011 Fax: ~~(587) 230-2949~~	Email: g.lussier@terrapex.com R.Yu@terrapexenv.com	Site #: ~~BU42329 (73)~~	C#854744-20-01
Email: accounts.payable@terrapex.com		Sampled By: AP	Kudrat Bajwa

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)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	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 (Soil)	VOCs	Metals and Inorganics	EC/SAR	PAH	PCB	# of Bottles	Comments
1		1-MW206-S	March 28/22	10:30	S	N	X	X			X	X	3	
2		1-MW206-95		10:30			X	X			X	X	3	
3		1-MW206-6		10:40					X			X	1	
4		1-MW206-96		10:40					X			X	1	
5		1-MW207-13		13:30			X	X			X		3	
6		1-MW207-14		13:45					X			X	1	
7		1-MW208-8	March 24/22	12:00			X	X	X		X	X	~~3~~ 4	
8		1-BH209-1	March 24/22	15:07					X				~~3~~ 1	
9		1-BH209-4	March 24/22	15:25			X			X			4	
10		1-BH210-1	March 24/22	17:00					X				1	

31-Mar-22 15:47
Kudrat Bajwa
C285331
ATM ENV-1660

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parrick AP	22/03/29	19:00	Kavithaselvan lh	2022/03/31	15:48	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Rece: 4/4/5	Custody Seal Present / Intact	Yes ✓	No

onic

* 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

BH SHOOT

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30685 Parkland Fuel Corporation~~ #4398 Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd~~	Quotation #: ~~B93691~~ C21481	Bureau Veritas Job #: / Bottle Order #: 854744
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~	P.O. #: ~~TBD~~	
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd, ~~Calgary AB T2P 4H4~~ Toronto ON, M3B2R7	Address: ~~65 Nebo Road~~ Roy Yu ~~Hamilton ON L8W 2C9~~	Project: ~~CB937.01~~ CT3243.01	COC #: C#854744-19-01 / Project Manager: Kudrat Bajwa
Tel: ~~(403) 567-2600~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 x 229 Fax:	Project Name: Grand Niagara RSC1	
Email: accounts.payable@terrapex.com	Email: ~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Site #: ~~BU42328 (73)~~	
		Sampled By: AP	

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)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality _____	
☒ Table 5	☐ PWQO ☐ Reg 406 Table _____	
	☐ Other _____	

Include Criteria on Certificate of Analysis (Y/N)? _____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	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 (Soil)	EC/SAR								# of Bottles	Comments
1		1-BH210-4	March 29/22	17:30	S		X	X								3	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
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				
Alex Parniak AP	22/03/29	19:00	~~KAUT~~ See pg e-1	2022/03/31	15:45	0	Time Sensitive	Temperature (°C) on Recei 4 | 4 | 5	Custody Seal	Yes	No
									Present	✓	
									Intact	✓	

* 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

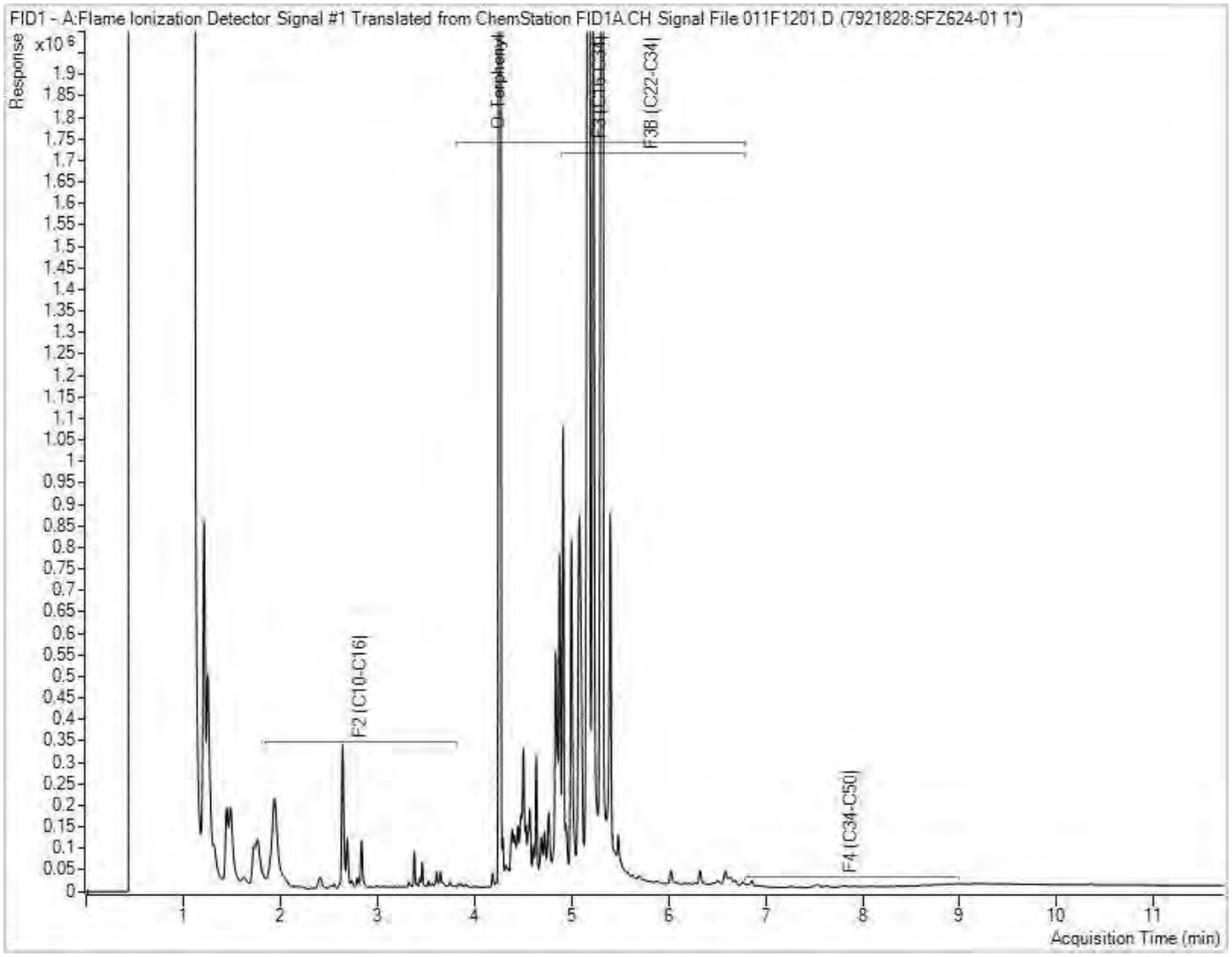
White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C285331
Report Date: 2022/05/02
Bureau Veritas Sample: SFZ624

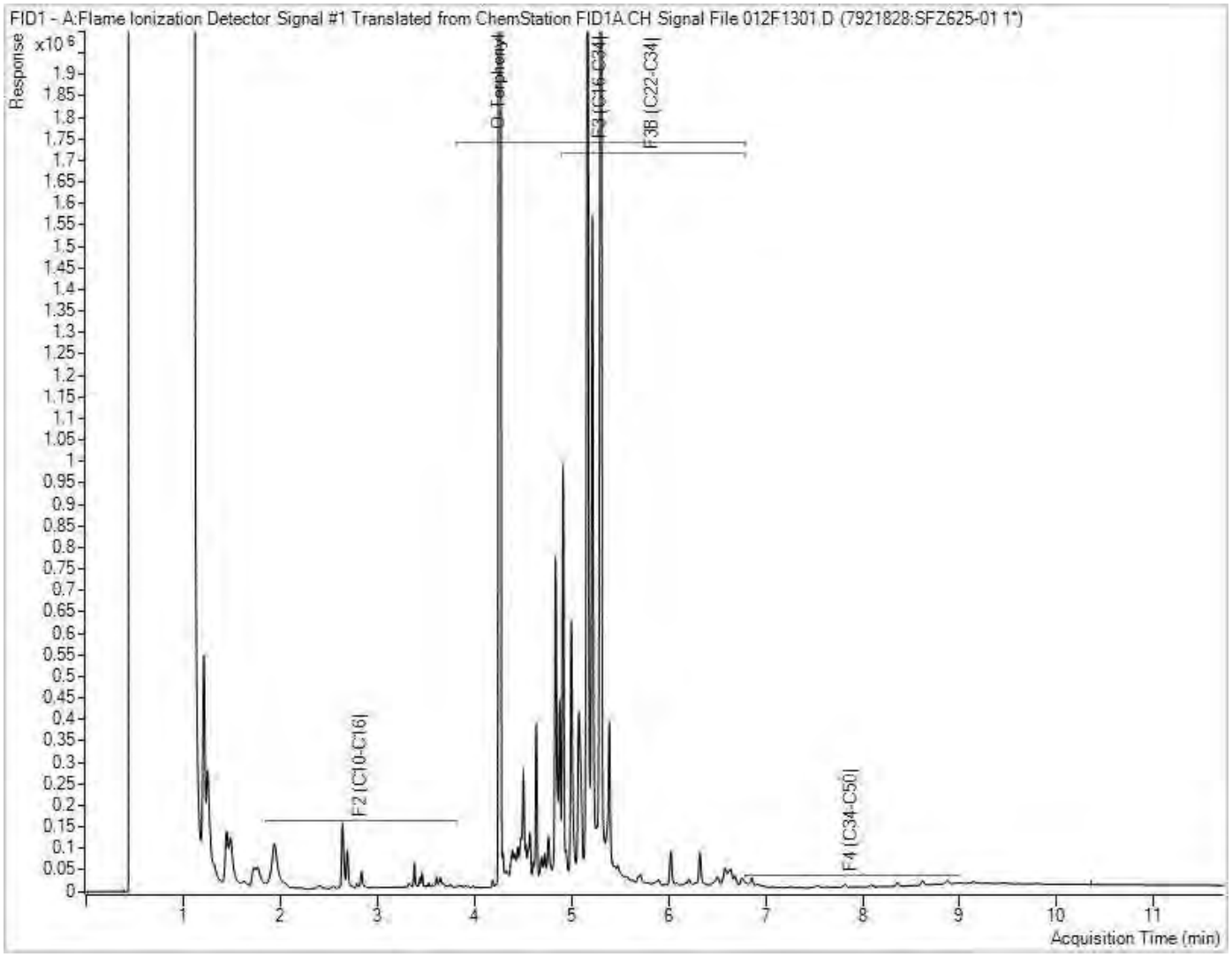
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-MW206-5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



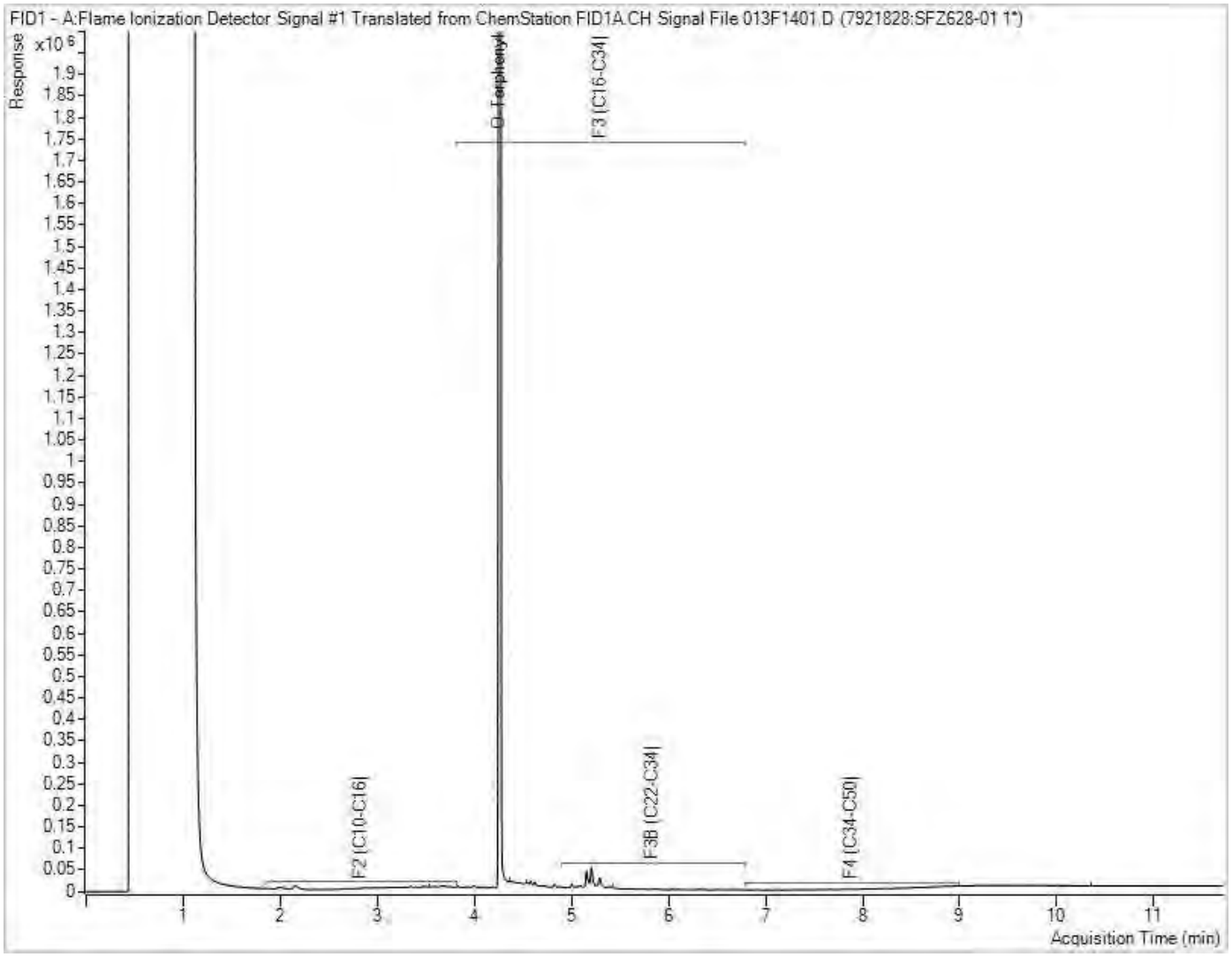
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



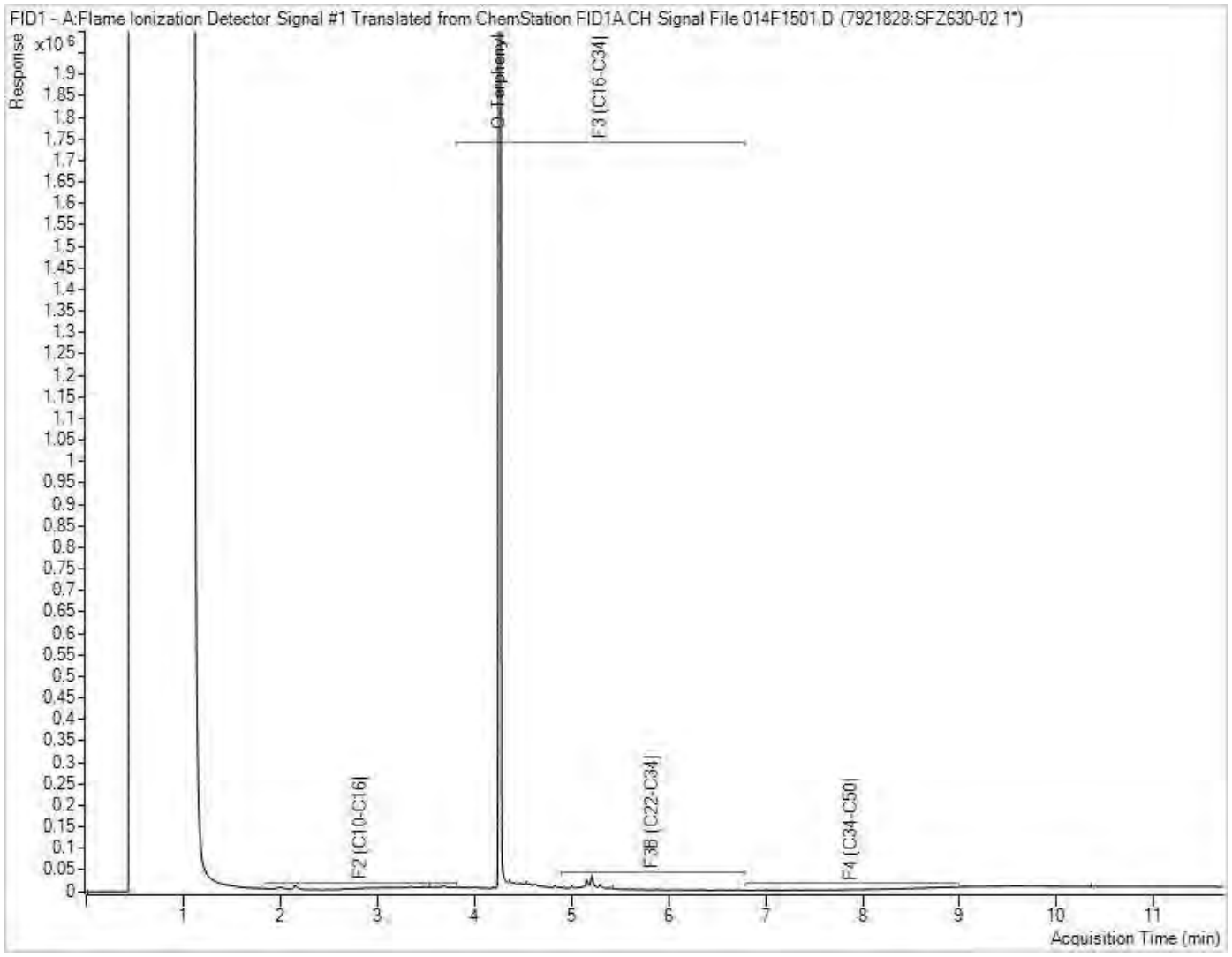
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

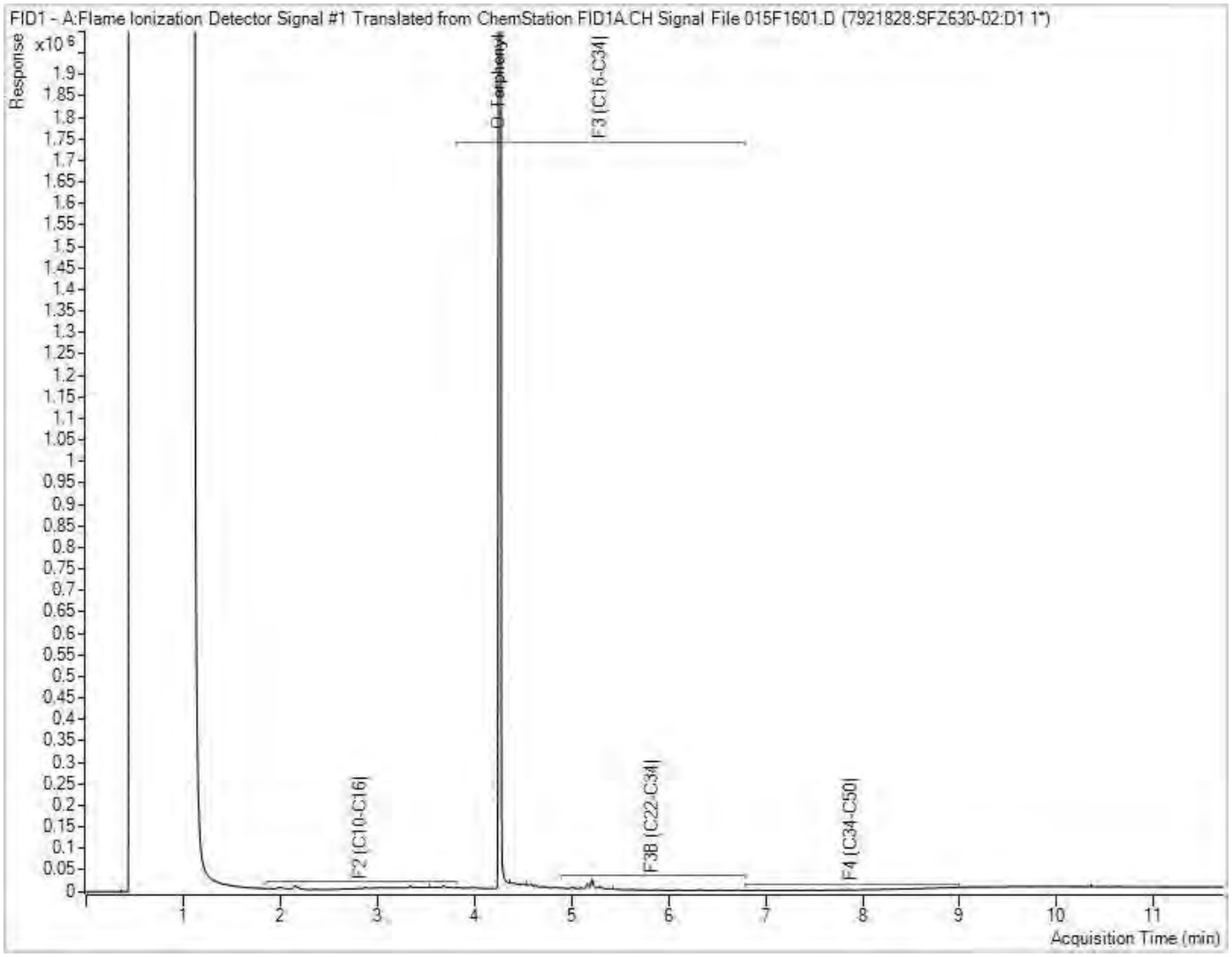


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/05/02
Bureau Veritas Sample: SFZ630 Lab-Dup

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-MW208-8

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

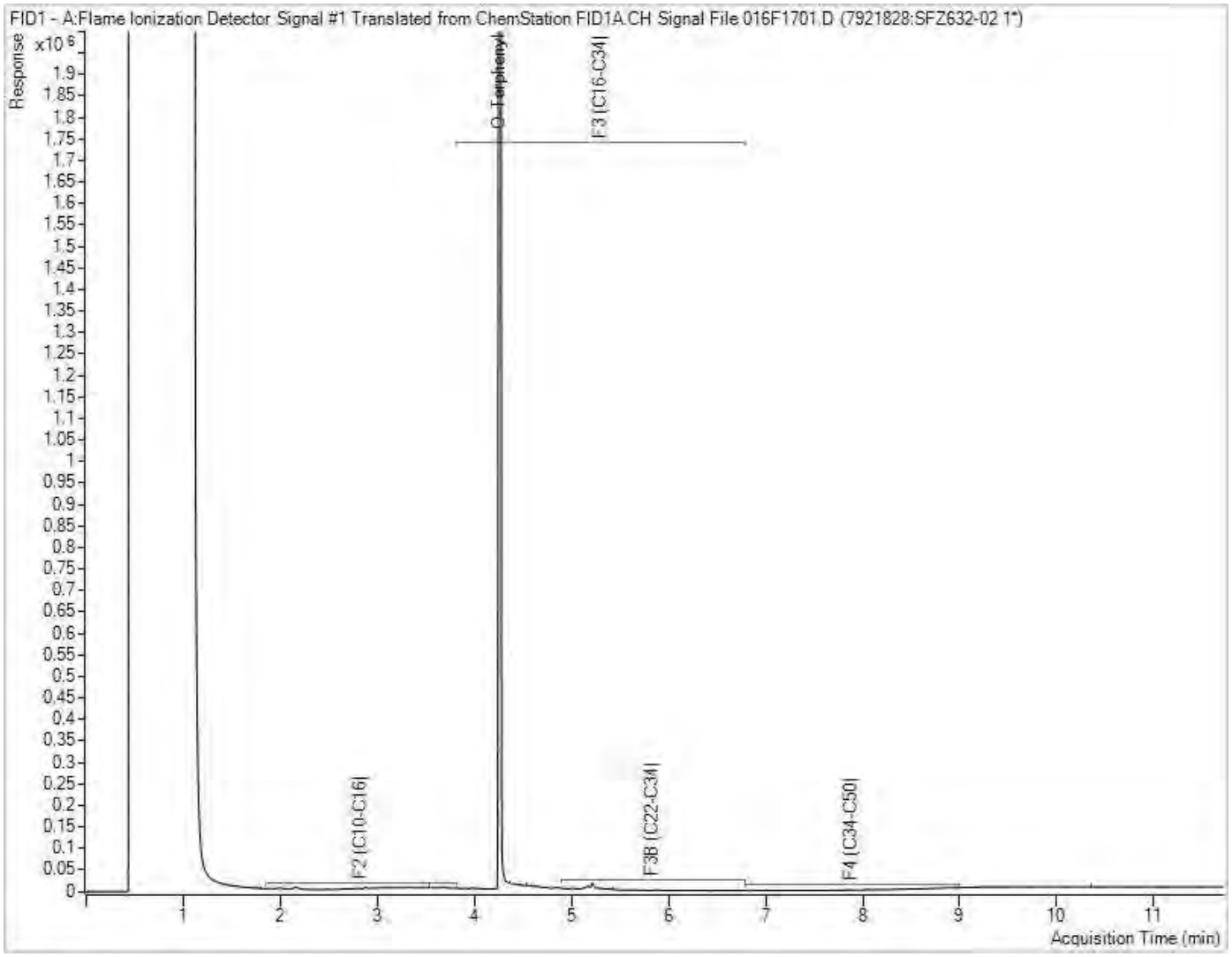


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/05/02
Bureau Veritas Sample: SFZ632

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH209-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

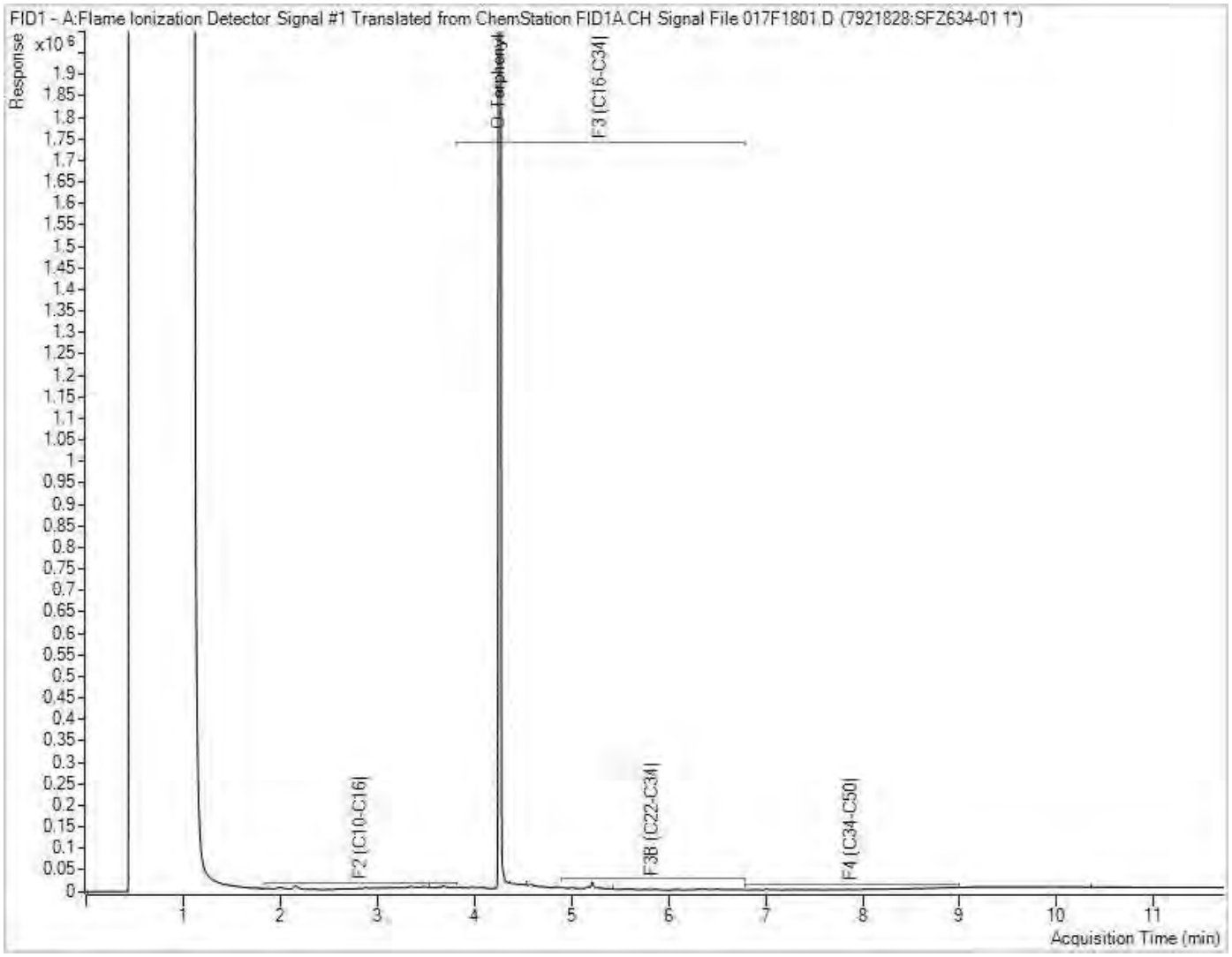


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C285331
Report Date: 2022/05/02
Bureau Veritas Sample: SFZ634

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA RSC 1
Client ID: 1-BH210-4

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.

Your Project #: CT3243.01
Site#: RSCI
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 839493-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/21
Report #: R7094692
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C296127
Received: 2022/04/11, 17:30

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	5	2022/04/18	2022/04/21	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Conductivity	10	2022/04/18	2022/04/19	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	2	2022/04/18	2022/04/19	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/18	2022/04/21	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	5	N/A	2022/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2022/04/18	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/18	2022/04/19	CAM SOP-00447	EPA 6020B m
Moisture	7	N/A	2022/04/13	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	4	2022/04/18	2022/04/19	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/14	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/18	2022/04/18	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	5	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	10	N/A	2022/04/21	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

Your Project #: CT3243.01
Site#: RSCI
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 839493-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/21
Report #: R7094692
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C296127
Received: 2022/04/11, 17:30

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

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL278	SIL280		SIL282			SIL282	
Sampling Date		2022/04/07 11:20	2022/04/07 13:30		2022/04/07 15:00			2022/04/07 15:00	
COC Number		839493-01-01	839493-01-01		839493-01-01			839493-01-01	
	UNITS	1-BH232-1A	1-BH233-1A	QC Batch	1-BH234-1A	RDL	QC Batch	1-BH234-1A Lab-Dup	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.94	0.96	7937377	1.1		7937377		
Inorganics									
Conductivity	mS/cm	1.8	0.86	7945023	2.6	0.002	7945053		
Moisture	%	22	19	7938315	18	1.0	7938315		
Available (CaCl2) pH	pH	7.81	7.84	7944703	7.86		7944700	7.84	7944700
WAD Cyanide (Free)	ug/g	<0.01	<0.01	7944030	<0.01	0.01	7944042		
Chromium (VI)	ug/g	<0.18	<0.18	7944265	<0.18	0.18	7944063		
Metals									
Hot Water Ext. Boron (B)	ug/g	0.10	0.093	7944366	0.13	0.050	7944366		
Acid Extractable Antimony (Sb)	ug/g	0.22	0.26	7944622	0.26	0.20	7944622		
Acid Extractable Arsenic (As)	ug/g	4.3	4.4	7944622	5.7	1.0	7944622		
Acid Extractable Barium (Ba)	ug/g	130	190	7944622	94	0.50	7944622		
Acid Extractable Beryllium (Be)	ug/g	1.1	0.96	7944622	0.98	0.20	7944622		
Acid Extractable Boron (B)	ug/g	8.0	8.0	7944622	8.3	5.0	7944622		
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	7944622	<0.10	0.10	7944622		
Acid Extractable Chromium (Cr)	ug/g	31	29	7944622	30	1.0	7944622		
Acid Extractable Cobalt (Co)	ug/g	15	16	7944622	13	0.10	7944622		
Acid Extractable Copper (Cu)	ug/g	25	25	7944622	26	0.50	7944622		
Acid Extractable Lead (Pb)	ug/g	12	11	7944622	12	1.0	7944622		
Acid Extractable Molybdenum (Mo)	ug/g	0.56	<0.50	7944622	0.65	0.50	7944622		
Acid Extractable Nickel (Ni)	ug/g	35	36	7944622	32	0.50	7944622		
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	7944622	<0.50	0.50	7944622		
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	7944622	<0.20	0.20	7944622		
Acid Extractable Thallium (Tl)	ug/g	0.17	0.20	7944622	0.20	0.050	7944622		
Acid Extractable Uranium (U)	ug/g	0.81	0.98	7944622	1.3	0.050	7944622		
Acid Extractable Vanadium (V)	ug/g	42	39	7944622	40	5.0	7944622		
Acid Extractable Zinc (Zn)	ug/g	69	69	7944622	75	5.0	7944622		
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	7944622	<0.050	0.050	7944622		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL286			SIL286			SIL293		
Sampling Date		2022/04/07 16:15			2022/04/07 16:15			2022/04/07 17:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH235-1A	RDL	QC Batch	1-BH235-1A Lab-Dup	RDL	QC Batch	1-BH236-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.73		7937377				0.75		7937377
Inorganics										
Conductivity	mS/cm	0.41	0.002	7945053				0.84	0.002	7945053
Moisture	%	21	1.0	7938315				17	1.0	7938315
Available (CaCl2) pH	pH	7.94		7944700				7.82		7944703
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944042	<0.01	0.01	7944042	<0.01	0.01	7944030
Chromium (VI)	ug/g	<0.18	0.18	7944063	<0.18	0.18	7944063	<0.18	0.18	7944265
Metals										
Hot Water Ext. Boron (B)	ug/g	0.085	0.050	7944366				0.10	0.050	7944366
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7944622				0.21	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	4.2	1.0	7944622				5.2	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	130	0.50	7944622				170	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	0.93	0.20	7944622				1.1	0.20	7944622
Acid Extractable Boron (B)	ug/g	7.7	5.0	7944622				7.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7944622				<0.10	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	27	1.0	7944622				31	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	14	0.10	7944622				17	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	25	0.50	7944622				26	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	10	1.0	7944622				13	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7944622				0.59	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	32	0.50	7944622				36	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7944622				<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7944622				<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7944622				0.18	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.93	0.050	7944622				1.3	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	36	5.0	7944622				44	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	63	5.0	7944622				68	5.0	7944622
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7944622				<0.050	0.050	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A Lab-Dup	RDL	QC Batch
Inorganics				
Moisture	%	17	1.0	7938315

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL282			SIL283			SIL286		
Sampling Date		2022/04/07 15:00			2022/04/07 15:00			2022/04/07 16:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH234-1A	RDL	QC Batch	1-BH234-91A	RDL	QC Batch	1-BH235-1A	RDL	QC Batch
Inorganics										
Moisture	%				18	1.0	7938767			
Calculated Parameters										
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	0.015	7935929	<0.015	0.015	7935929	<0.015	0.015	7935929
Pesticides & Herbicides										
Aldrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
a-Chlordane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
g-Chlordane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDD	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDD	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDE	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDE	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDT	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDT	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Dieldrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Lindane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Heptachlor	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Heptachlor epoxide	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachlorobenzene	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachloroethane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Methoxychlor	ug/g	<0.0050	0.0050	7945061	<0.0050	0.0050	7945061	<0.0050	0.0050	7945061
Aroclor 1242	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Aroclor 1248	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL282			SIL283			SIL286		
Sampling Date		2022/04/07 15:00			2022/04/07 15:00			2022/04/07 16:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH234-1A	RDL	QC Batch	1-BH234-91A	RDL	QC Batch	1-BH235-1A	RDL	QC Batch
Aroclor 1254	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Aroclor 1260	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	76		7945061	80		7945061	79		7945061
Decachlorobiphenyl	%	69		7945061	70		7945061	73		7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	0.015	7935929
Pesticides & Herbicides				
Aldrin	ug/g	<0.0020	0.0020	7945061
a-Chlordane	ug/g	<0.0020	0.0020	7945061
g-Chlordane	ug/g	<0.0020	0.0020	7945061
o,p-DDD	ug/g	<0.0020	0.0020	7945061
p,p-DDD	ug/g	<0.0020	0.0020	7945061
o,p-DDE	ug/g	<0.0020	0.0020	7945061
p,p-DDE	ug/g	<0.0020	0.0020	7945061
o,p-DDT	ug/g	<0.0020	0.0020	7945061
p,p-DDT	ug/g	<0.0020	0.0020	7945061
Dieldrin	ug/g	<0.0020	0.0020	7945061
Lindane	ug/g	<0.0020	0.0020	7945061
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7945061
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7945061
Endrin	ug/g	<0.0020	0.0020	7945061
Heptachlor	ug/g	<0.0020	0.0020	7945061
Heptachlor epoxide	ug/g	<0.0020	0.0020	7945061
Hexachlorobenzene	ug/g	<0.0020	0.0020	7945061
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7945061
Hexachloroethane	ug/g	<0.0020	0.0020	7945061
Methoxychlor	ug/g	<0.0050	0.0050	7945061
Aroclor 1242	ug/g	<0.015	0.015	7945061
Aroclor 1248	ug/g	<0.015	0.015	7945061
Aroclor 1254	ug/g	<0.015	0.015	7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
Aroclor 1260	ug/g	<0.015	0.015	7945061
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	78		7945061
Decachlorobiphenyl	%	73		7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIL278		
Sampling Date		2022/04/07 11:20		
COC Number		839493-01-01		
	UNITS	1-BH232-1A	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7937371
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	7944000
Acenaphthylene	ug/g	<0.0050	0.0050	7944000
Anthracene	ug/g	<0.0050	0.0050	7944000
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7944000
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7944000
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7944000
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7944000
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7944000
Chrysene	ug/g	<0.0050	0.0050	7944000
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7944000
Fluoranthene	ug/g	<0.0050	0.0050	7944000
Fluorene	ug/g	<0.0050	0.0050	7944000
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7944000
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000
Naphthalene	ug/g	<0.0050	0.0050	7944000
Phenanthrene	ug/g	<0.0050	0.0050	7944000
Pyrene	ug/g	<0.0050	0.0050	7944000
Surrogate Recovery (%)				
D10-Anthracene	%	92		7944000
D14-Terphenyl (FS)	%	94		7944000
D8-Acenaphthylene	%	85		7944000

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

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

Bureau Veritas ID		SIL278	SIL280	SIL282			SIL289		
Sampling Date		2022/04/07 11:20	2022/04/07 13:30	2022/04/07 15:00			2022/04/07 16:25		
COC Number		839493-01-01	839493-01-01	839493-01-01			839493-01-01		
	UNITS	1-BH232-1A	1-BH233-1A	1-BH234-1A	RDL	QC Batch	1-BH235-2B	RDL	QC Batch
Inorganics									
Moisture	%						20	1.0	7938767
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	7944244	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	7944244	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	<10	<10	10	7944244	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7944244	<10	10	7944244
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7944979	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	50	7944979	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7944979	<50	50	7944979
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7944979	Yes		7944979
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	100	102	101		7944244	101		7944244
4-Bromofluorobenzene	%	98	94	98		7944244	97		7944244
D10-o-Xylene	%	111	114	108		7944244	117		7944244
D4-1,2-Dichloroethane	%	107	107	109		7944244	107		7944244
o-Terphenyl	%	101	97	100		7944979	100		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	7944244
Toluene	ug/g	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	10	7944244
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7944979
Reached Baseline at C50	ug/g	Yes		7944979
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		7944244
4-Bromofluorobenzene	%	97		7944244
D10-o-Xylene	%	110		7944244
D4-1,2-Dichloroethane	%	105		7944244
o-Terphenyl	%	101		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL279	SIL281		SIL284		SIL289		
Sampling Date		2022/04/07 11:30	2022/04/07 13:40		2022/04/07 15:10		2022/04/07 16:25		
COC Number		839493-01-01	839493-01-01		839493-01-01		839493-01-01		
	UNITS	1-BH232-2B	1-BH233-2B	QC Batch	1-BH234-2B	QC Batch	1-BH235-2B	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	1.0	1.2	7937377	0.96	7937377	0.94		7937377
Inorganics									
Conductivity	mS/cm	1.2	1.8	7945053	1.1	7945023	0.56	0.002	7945053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		SIL298		
Sampling Date		2022/04/07 17:25		
COC Number		839493-01-01		
	UNITS	1-BH236-2B	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.67		7937377
Inorganics				
Conductivity	mS/cm	3.3	0.002	7945053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL278
Sample ID: 1-BH232-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7937371	N/A	2022/04/19	Automated Statchk
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL279
Sample ID: 1-BH232-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL280
Sample ID: 1-BH233-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL281
Sample ID: 1-BH233-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL282 **Collected:** 2022/04/07
Sample ID: 1-BH234-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL282 Dup **Collected:** 2022/04/07
Sample ID: 1-BH234-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar

Bureau Veritas ID: SIL283 **Collected:** 2022/04/07
Sample ID: 1-BH234-91A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7938767	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk

Bureau Veritas ID: SIL284 **Collected:** 2022/04/07
Sample ID: 1-BH234-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL286 **Collected:** 2022/04/07
Sample ID: 1-BH235-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran

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Bureau Veritas Job #: C296127
Report Date: 2022/04/21

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL286
Sample ID: 1-BH235-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL286 Dup
Sample ID: 1-BH235-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana

Bureau Veritas ID: SIL289
Sample ID: 1-BH235-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Moisture	BAL	7938767	N/A	2022/04/13	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL293
Sample ID: 1-BH236-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIL293 Dup
Sample ID: 1-BH236-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel

Bureau Veritas ID: SIL298
Sample ID: 1-BH236-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944000	D10-Anthracene	2022/04/18	95	50 - 130	97	50 - 130	98	%		
7944000	D14-Terphenyl (FS)	2022/04/18	98	50 - 130	100	50 - 130	98	%		
7944000	D8-Acenaphthylene	2022/04/18	90	50 - 130	95	50 - 130	90	%		
7944244	1,4-Difluorobenzene	2022/04/18	98	60 - 140	99	60 - 140	102	%		
7944244	4-Bromofluorobenzene	2022/04/18	105	60 - 140	103	60 - 140	96	%		
7944244	D10-o-Xylene	2022/04/18	117	60 - 140	93	60 - 140	105	%		
7944244	D4-1,2-Dichloroethane	2022/04/18	103	60 - 140	101	60 - 140	109	%		
7944979	o-Terphenyl	2022/04/19	98	60 - 130	92	60 - 130	101	%		
7945061	2,4,5,6-Tetrachloro-m-xylene	2022/04/19	113	50 - 130	83	50 - 130	82	%		
7945061	Decachlorobiphenyl	2022/04/19	79	50 - 130	88	50 - 130	84	%		
7938315	Moisture	2022/04/13							0.59	20
7938767	Moisture	2022/04/13							1.2	20
7944000	1-Methylnaphthalene	2022/04/18	98	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	2-Methylnaphthalene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthene	2022/04/18	97	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthylene	2022/04/18	94	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Anthracene	2022/04/18	98	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)anthracene	2022/04/18	106	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)pyrene	2022/04/18	87	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(b/j)fluoranthene	2022/04/18	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(g,h,i)perylene	2022/04/18	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(k)fluoranthene	2022/04/18	100	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7944000	Chrysene	2022/04/18	101	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
7944000	Dibenzo(a,h)anthracene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluoranthene	2022/04/18	104	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluorene	2022/04/18	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7944000	Indeno(1,2,3-cd)pyrene	2022/04/18	91	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Naphthalene	2022/04/18	87	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
7944000	Phenanthrene	2022/04/18	97	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Pyrene	2022/04/18	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
7944030	WAD Cyanide (Free)	2022/04/18	87	75 - 125	91	80 - 120	<0.01	ug/g	NC	35

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944042	WAD Cyanide (Free)	2022/04/18	89	75 - 125	92	80 - 120	<0.01	ug/g	NC	35
7944063	Chromium (VI)	2022/04/19	86	70 - 130	91	80 - 120	<0.18	ug/g	NC	35
7944244	Benzene	2022/04/18	108	50 - 140	109	50 - 140	<0.020	ug/g	NC	50
7944244	Ethylbenzene	2022/04/18	123	50 - 140	103	50 - 140	<0.020	ug/g	NC	50
7944244	F1 (C6-C10) - BTEX	2022/04/18					<10	ug/g	NC	30
7944244	F1 (C6-C10)	2022/04/18	88	60 - 140	88	80 - 120	<10	ug/g	NC	30
7944244	o-Xylene	2022/04/18	118	50 - 140	112	50 - 140	<0.020	ug/g	NC	50
7944244	p+m-Xylene	2022/04/18	115	50 - 140	111	50 - 140	<0.040	ug/g	NC	50
7944244	Toluene	2022/04/18	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
7944244	Total Xylenes	2022/04/18					<0.040	ug/g	NC	50
7944265	Chromium (VI)	2022/04/21	77	70 - 130	89	80 - 120	<0.18	ug/g	NC	35
7944366	Hot Water Ext. Boron (B)	2022/04/21	106	75 - 125	98	75 - 125	<0.050	ug/g	4.0	40
7944622	Acid Extractable Antimony (Sb)	2022/04/19	100	75 - 125	105	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Arsenic (As)	2022/04/19	98	75 - 125	100	80 - 120	<1.0	ug/g	6.8	30
7944622	Acid Extractable Barium (Ba)	2022/04/19	NC	75 - 125	99	80 - 120	<0.50	ug/g	0.72	30
7944622	Acid Extractable Beryllium (Be)	2022/04/19	102	75 - 125	103	80 - 120	<0.20	ug/g	1.1	30
7944622	Acid Extractable Boron (B)	2022/04/19	96	75 - 125	92	80 - 120	<5.0	ug/g	NC	30
7944622	Acid Extractable Cadmium (Cd)	2022/04/19	101	75 - 125	103	80 - 120	<0.10	ug/g	NC	30
7944622	Acid Extractable Chromium (Cr)	2022/04/19	104	75 - 125	105	80 - 120	<1.0	ug/g	7.8	30
7944622	Acid Extractable Cobalt (Co)	2022/04/19	102	75 - 125	106	80 - 120	<0.10	ug/g	5.1	30
7944622	Acid Extractable Copper (Cu)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	1.5	30
7944622	Acid Extractable Lead (Pb)	2022/04/19	97	75 - 125	104	80 - 120	<1.0	ug/g	3.3	30
7944622	Acid Extractable Mercury (Hg)	2022/04/19	89	75 - 125	91	80 - 120	<0.050	ug/g		
7944622	Acid Extractable Molybdenum (Mo)	2022/04/19	105	75 - 125	103	80 - 120	<0.50	ug/g	15	30
7944622	Acid Extractable Nickel (Ni)	2022/04/19	99	75 - 125	105	80 - 120	<0.50	ug/g	2.7	30
7944622	Acid Extractable Selenium (Se)	2022/04/19	103	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7944622	Acid Extractable Silver (Ag)	2022/04/19	103	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Thallium (Tl)	2022/04/19	104	75 - 125	106	80 - 120	<0.050	ug/g	1.0	30
7944622	Acid Extractable Uranium (U)	2022/04/19	102	75 - 125	101	80 - 120	<0.050	ug/g	0.061	30
7944622	Acid Extractable Vanadium (V)	2022/04/19	95	75 - 125	103	80 - 120	<5.0	ug/g	16	30
7944622	Acid Extractable Zinc (Zn)	2022/04/19	NC	75 - 125	105	80 - 120	<5.0	ug/g	0.19	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944700	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.18	N/A
7944703	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.49	N/A
7944979	F2 (C10-C16 Hydrocarbons)	2022/04/19	101	60 - 130	93	80 - 120	<10	ug/g	NC	30
7944979	F3 (C16-C34 Hydrocarbons)	2022/04/19	106	60 - 130	99	80 - 120	<50	ug/g	11	30
7944979	F4 (C34-C50 Hydrocarbons)	2022/04/19	110	60 - 130	102	80 - 120	<50	ug/g	NC	30
7945023	Conductivity	2022/04/19			100	90 - 110	<0.002	mS/cm	0	10
7945053	Conductivity	2022/04/19			99	90 - 110	<0.002	mS/cm	0.35	10
7945061	a-Chlordane	2022/04/19	112	50 - 130	87	50 - 130	<0.0020	ug/g	NC	40
7945061	Aldrin	2022/04/19	110	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7945061	Aroclor 1242	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1248	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1254	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1260	2022/04/19					<0.015	ug/g	NC	40
7945061	Dieldrin	2022/04/19	113	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40
7945061	Endosulfan I (alpha)	2022/04/19	107	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Endosulfan II (beta)	2022/04/19	91	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Endrin	2022/04/19	115	50 - 130	93	50 - 130	<0.0020	ug/g	NC	40
7945061	g-Chlordane	2022/04/19	110	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
7945061	Heptachlor epoxide	2022/04/19	109	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7945061	Heptachlor	2022/04/19	110	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachlorobenzene	2022/04/19	126	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachlorobutadiene	2022/04/19	83	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachloroethane	2022/04/19	68	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Lindane	2022/04/19	122	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40
7945061	Methoxychlor	2022/04/19	87	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7945061	o,p-DDD	2022/04/19	84	50 - 130	97	50 - 130	<0.0020	ug/g	NC	40
7945061	o,p-DDE	2022/04/19	115	50 - 130	87	50 - 130	<0.0020	ug/g	NC	40
7945061	o,p-DDT	2022/04/19	102	50 - 130	98	50 - 130	<0.0020	ug/g	NC	40
7945061	p,p-DDD	2022/04/19	57	50 - 130	87	50 - 130	<0.0020	ug/g	36	40
7945061	p,p-DDE	2022/04/19	NC	50 - 130	92	50 - 130	<0.0020	ug/g	104 (1)	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7945061	p,p-DDT	2022/04/19	74	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40

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.

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)

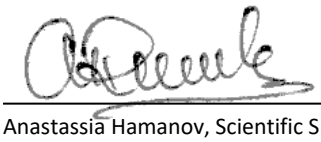
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate results exceeded RPD acceptance criteria. This may be due to sample heterogeneity.

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

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01024~~ C71481	BV Labs Job #:	Bottle Order #: 839493
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #: C#839493-01-01	Project Manager: Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:	GRAND NIAGARA GOLF		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:	RSC1		
				Sampled By:	RAYMOND		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): BTEX, PHCs (F1-F4) O.Reg153; METALS AND INORGANICS O.Reg153; OC PESTICIDES O.Reg153; EC/SAR O.Reg153; VOCs, PHCs (F1-F4) O.Reg153; PAHs O.Reg153

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1		~~1-BH231-1A~~	APRIL 7/22	11 20AM	SOIL	5	
2		~~1-BH231-2~~		11 30AM		1	
3		1-BH232-1A	APRIL 7/22	11 20AM	SOIL	5	
4		1-BH232-2B		11 30AM		1	
5		1-BH233-1A		1 30PM		5	
6		1-BH233-2B		1 40PM		1	
7		1-BH234-1A		3PM		6	
8		1-BH234-1B		3PM		1	
9		1-BH234-2B		3 10PM		1	
10		1-BH235-1A		4 15PM		2	

11-Apr-22 17:30
Ema Gitej
C296127
SRS ENV-1196

* 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: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
RAYMOND AYMEN	22/04/07	8:30AM	Ashlie Beckerman ASHLIE BECKERMAN	2022/04/11 2022/04/11	17:30	8		1/3/3	Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01024~~ C2148	BV Labs Job #:	Bottle Order #: 839493
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #: C#839493-02-01	Project Manager: Ema Gitej
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF		
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	RSC 1		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	R. AYMEN		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [ ] Res/Park [x] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [x] Coarse
- [ ] Table 3 [ ] Agri/Other [x] For RSC
- [x] Table 5

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ______
- [ ] PWQO [ ] Reg 406 Table ______
- [ ] Other ______

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ______

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX / PHCS (F1-F4)	METALS AND INORGANICS	OC PESTICIDES	EC/SAR	VOCS / PHCS (F1-F4)	PAHS					# of Bottles	Comments
1	✓ •	1-BH235-2B	APRIL 7/22	4:25 PM	SOIL	N	X			X							5	
2	✓ •	1-BH236-1A	↓	5:15 PM	↓	N	X	X	X								5	
3	✓ •	1-BH236-2B	↓	5:25 PM	↓	N				X							1	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ______ Time Required: ______ [ ]
Rush Confirmation Number: ______ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only
RAYMOND AYMEN	22/04/07	8:30 pm	Ashith Alekuwar (ASHITH NESUKUMAR)	2022/04/11	17:30	0		Temperature (°C) on Recei 1/3/3; Custody Seal Present: Yes ✓; Intact: Yes ✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

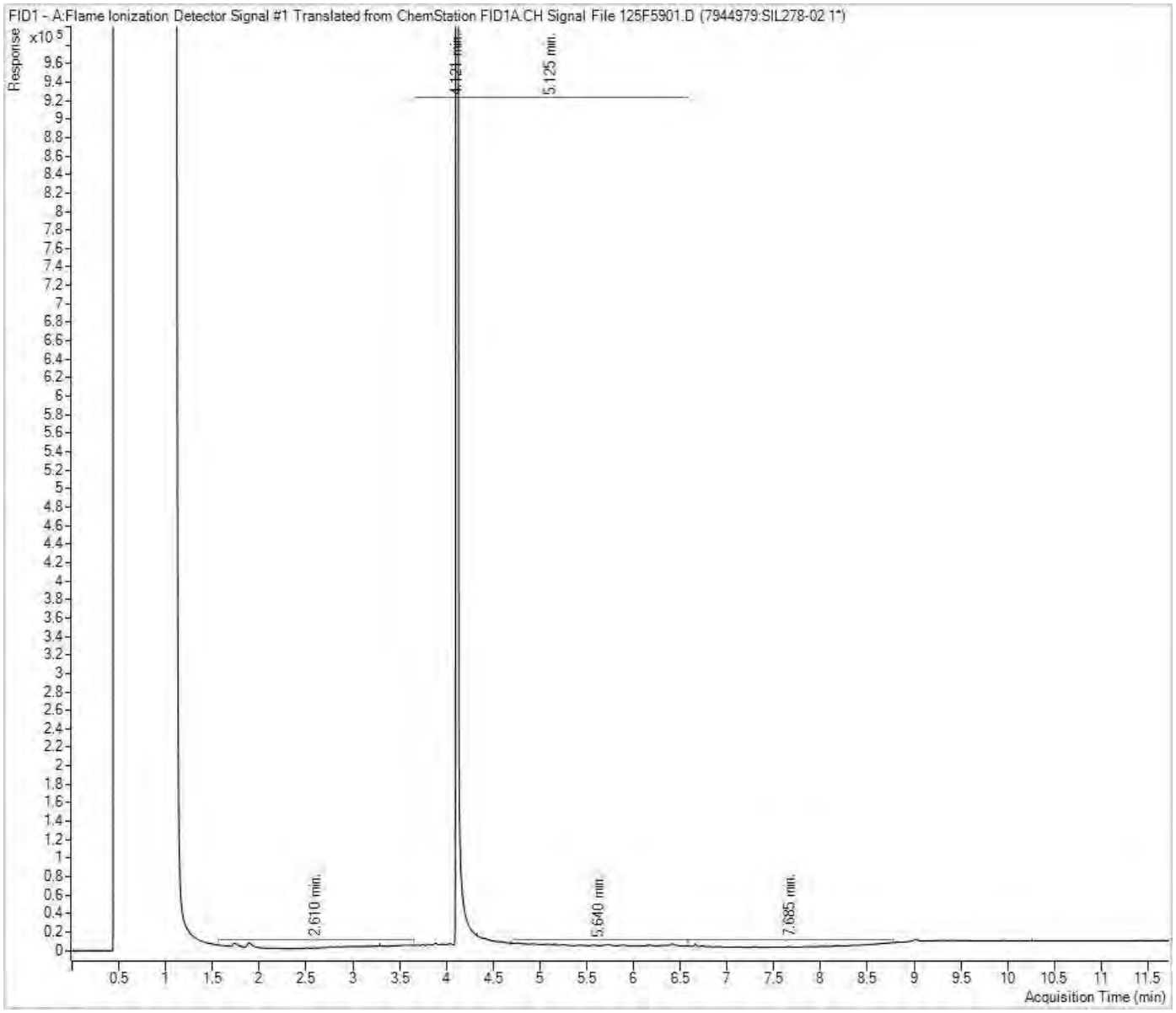
R V Duncan

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21
Bureau Veritas Sample: SIL278

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH232-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

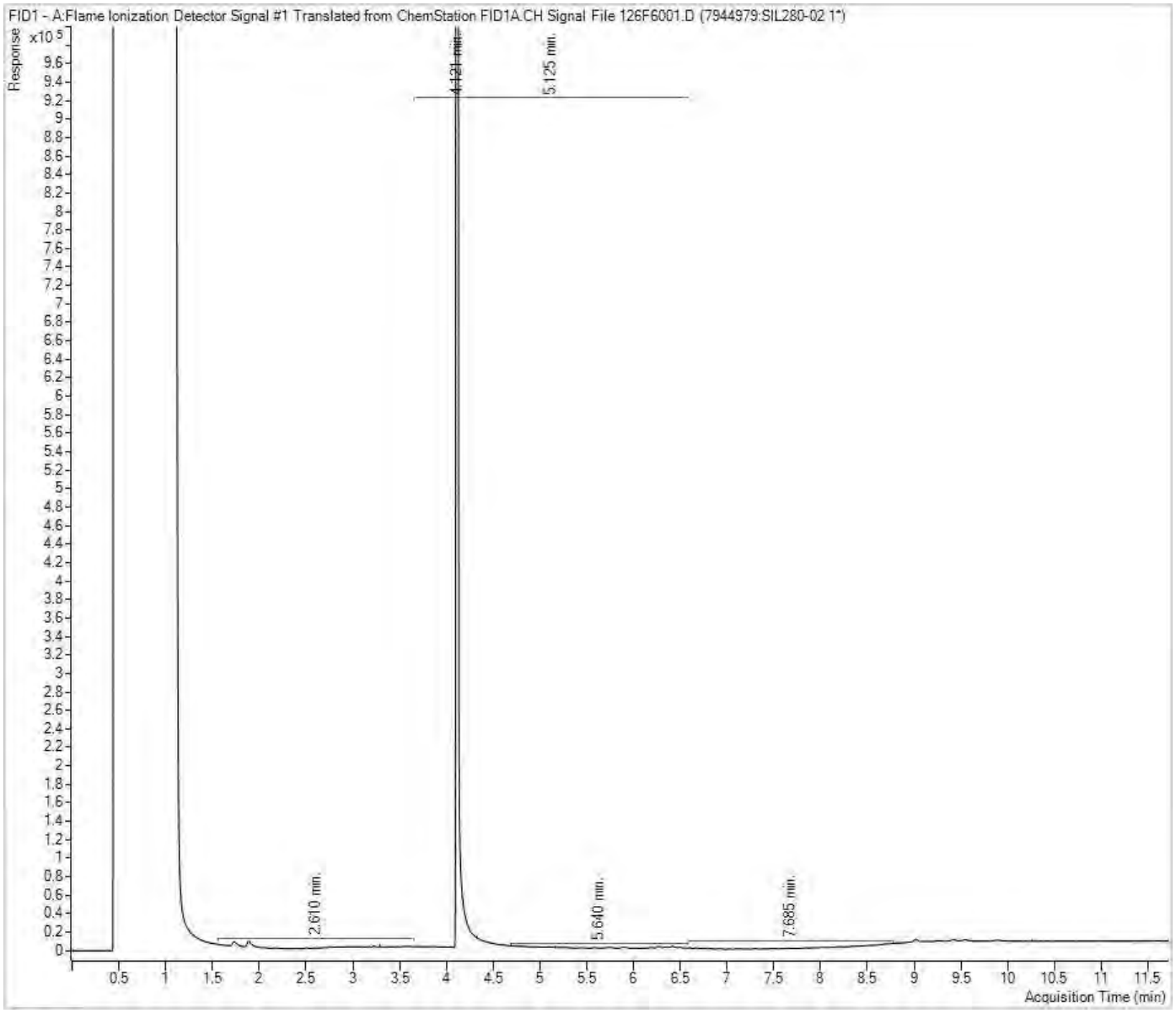


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21
Bureau Veritas Sample: SIL280

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH233-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

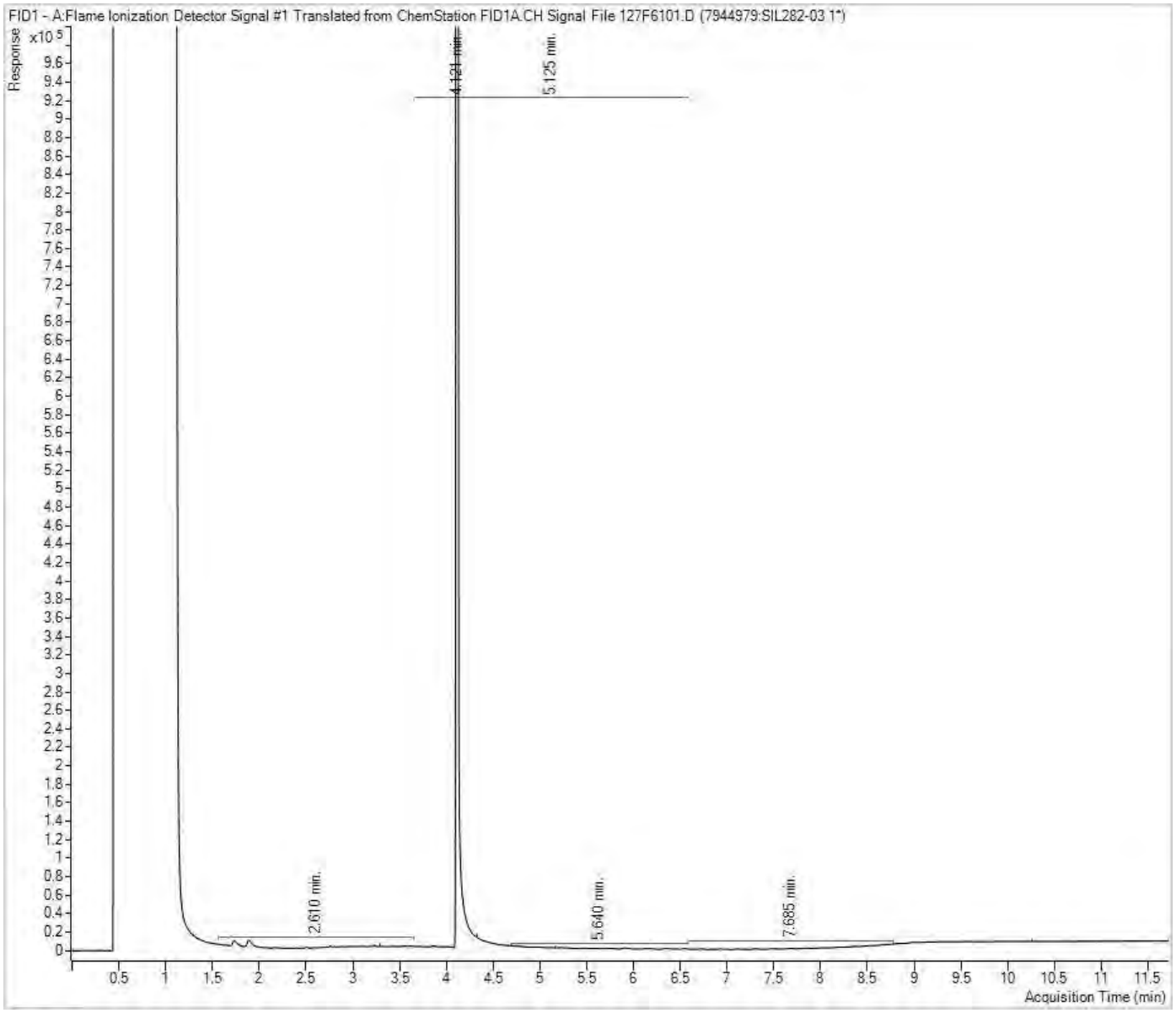


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21
Bureau Veritas Sample: SIL282

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH234-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

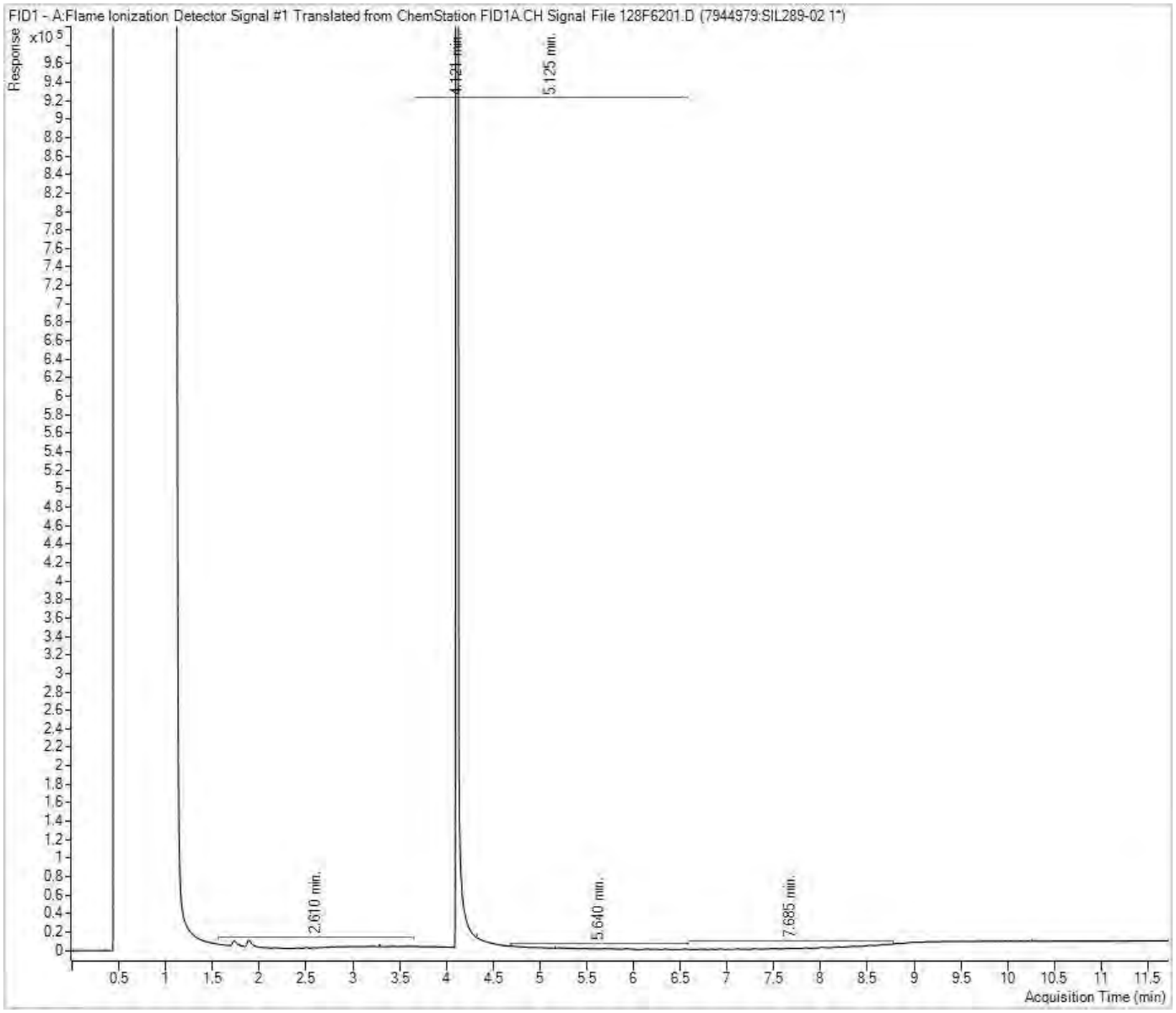


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21
Bureau Veritas Sample: SIL289

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH235-2B

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

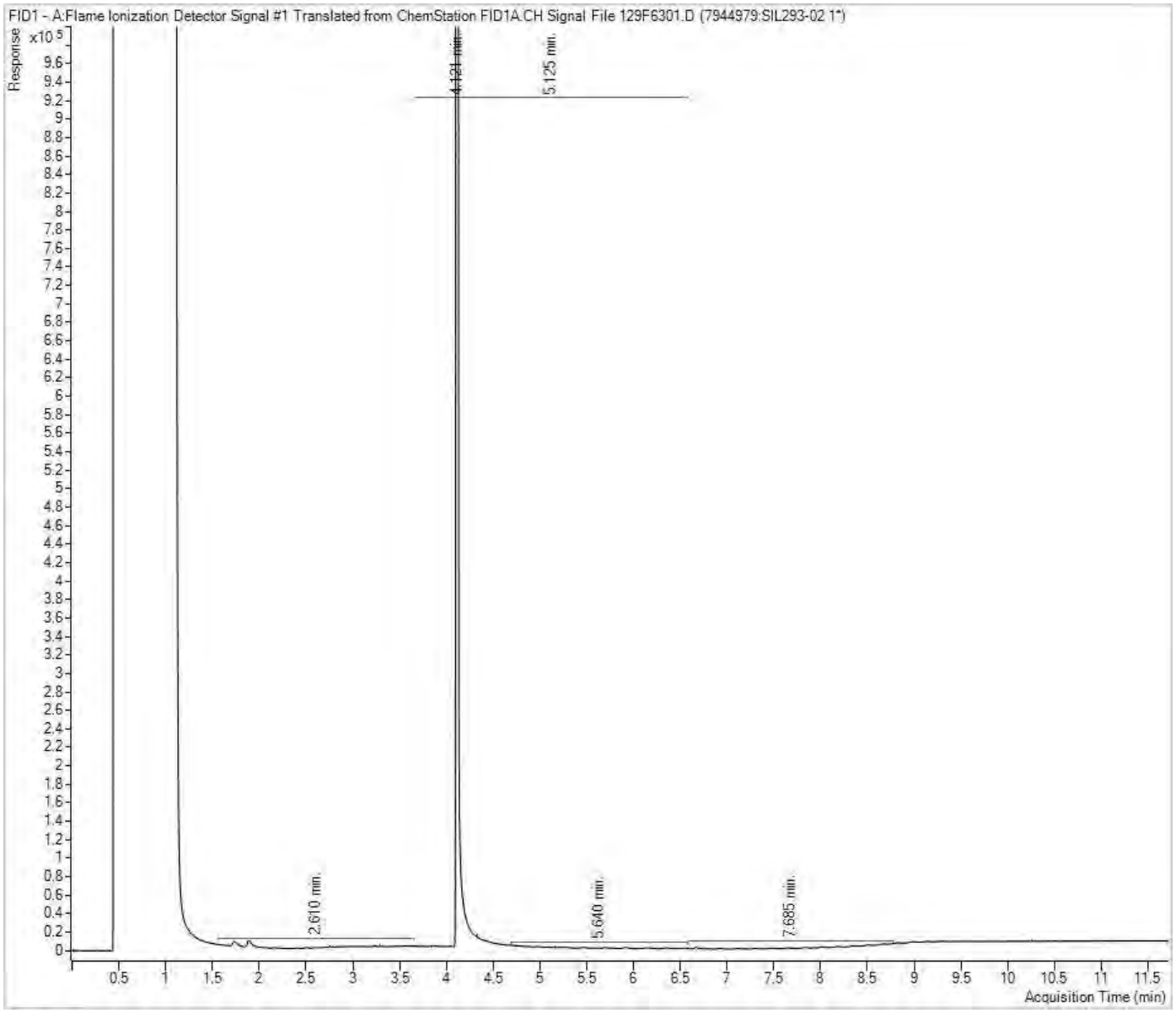


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/04/21
Bureau Veritas Sample: SIL293

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH236-1A

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.

Your Project #: CT3243.01
Site#: RSCI
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 839493-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128283
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296127
Received: 2022/04/11, 17:30

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	5	2022/04/18	2022/04/21	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	3	2022/05/12	2022/05/12	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	2	2022/05/13	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	5	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	10	2022/04/18	2022/04/19	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/05/13	2022/05/13	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	2	2022/04/18	2022/04/19	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/18	2022/04/21	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	5	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	5	N/A	2022/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2022/04/18	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/18	2022/04/19	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	2	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/05/13	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	7	N/A	2022/04/13	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	3	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	4	2022/04/18	2022/04/19	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/14	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/18	2022/04/18	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	5	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	5	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	10	N/A	2022/04/21	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	1	N/A	2022/05/13	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

Your Project #: CT3243.01
Site#: RSCI
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 839493-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128283
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296127
Received: 2022/04/11, 17:30

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.

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL278			SIL279			SIL280		
Sampling Date		2022/04/07 11:20			2022/04/07 11:30			2022/04/07 13:30		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH232-1A	RDL	QC Batch	1-BH232-2B	RDL	QC Batch	1-BH233-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.94		7937377				0.96		7937377
Inorganics										
Conductivity	mS/cm	1.8	0.002	7945023				0.86	0.002	7945023
Moisture	%	22	1.0	7938315	18	1.0	7986740	19	1.0	7938315
Available (CaCl2) pH	pH	7.81		7944703	7.98		7994248	7.84		7944703
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944030	<0.01	0.01	7993299	<0.01	0.01	7944030
Chromium (VI)	ug/g	<0.18	0.18	7944265	<0.18	0.18	7993758	<0.18	0.18	7944265
Metals										
Hot Water Ext. Boron (B)	ug/g	0.10	0.050	7944366	0.18	0.050	7991491	0.093	0.050	7944366
Acid Extractable Antimony (Sb)	ug/g	0.22	0.20	7944622	<0.20	0.20	7993797	0.26	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	4.3	1.0	7944622	7.2	1.0	7993797	4.4	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	130	0.50	7944622	35	0.50	7993797	190	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7944622	0.50	0.20	7993797	0.96	0.20	7944622
Acid Extractable Boron (B)	ug/g	8.0	5.0	7944622	6.3	5.0	7993797	8.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7944622	0.10	0.10	7993797	<0.10	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	31	1.0	7944622	18	1.0	7993797	29	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7944622	9.7	0.10	7993797	16	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	25	0.50	7944622	25	0.50	7993797	25	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	12	1.0	7944622	6.9	1.0	7993797	11	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	0.56	0.50	7944622	<0.50	0.50	7993797	<0.50	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	35	0.50	7944622	22	0.50	7993797	36	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7944622	<0.50	0.50	7993797	<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7944622	<0.20	0.20	7993797	<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	7944622	0.088	0.050	7993797	0.20	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.81	0.050	7944622	0.79	0.050	7993797	0.98	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	42	5.0	7944622	26	5.0	7993797	39	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	69	5.0	7944622	50	5.0	7993797	69	5.0	7944622
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7944622	<0.050	0.050	7993797	<0.050	0.050	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL281			SIL282			SIL282	
Sampling Date		2022/04/07 13:40			2022/04/07 15:00			2022/04/07 15:00	
COC Number		839493-01-01			839493-01-01			839493-01-01	
	UNITS	1-BH233-2B	RDL	QC Batch	1-BH234-1A	RDL	QC Batch	1-BH234-1A Lab-Dup	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A				1.1		7937377		
Inorganics									
Conductivity	mS/cm				2.6	0.002	7945053		
Moisture	%	23	1.0	7986740	18	1.0	7938315		
Available (CaCl2) pH	pH	7.96		7994248	7.86		7944700	7.84	7944700
WAD Cyanide (Free)	ug/g	<0.01	0.01	7993299	<0.01	0.01	7944042		
Chromium (VI)	ug/g	<0.18	0.18	7993758	<0.18	0.18	7944063		
Metals									
Hot Water Ext. Boron (B)	ug/g	0.34	0.050	7991491	0.13	0.050	7944366		
Acid Extractable Antimony (Sb)	ug/g	0.22	0.20	7993797	0.26	0.20	7944622		
Acid Extractable Arsenic (As)	ug/g	4.6	1.0	7993797	5.7	1.0	7944622		
Acid Extractable Barium (Ba)	ug/g	160	0.50	7993797	94	0.50	7944622		
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7993797	0.98	0.20	7944622		
Acid Extractable Boron (B)	ug/g	15	5.0	7993797	8.3	5.0	7944622		
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7993797	<0.10	0.10	7944622		
Acid Extractable Chromium (Cr)	ug/g	32	1.0	7993797	30	1.0	7944622		
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7993797	13	0.10	7944622		
Acid Extractable Copper (Cu)	ug/g	26	0.50	7993797	26	0.50	7944622		
Acid Extractable Lead (Pb)	ug/g	12	1.0	7993797	12	1.0	7944622		
Acid Extractable Molybdenum (Mo)	ug/g	0.71	0.50	7993797	0.65	0.50	7944622		
Acid Extractable Nickel (Ni)	ug/g	38	0.50	7993797	32	0.50	7944622		
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7993797	<0.50	0.50	7944622		
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7993797	<0.20	0.20	7944622		
Acid Extractable Thallium (Tl)	ug/g	0.20	0.050	7993797	0.20	0.050	7944622		
Acid Extractable Uranium (U)	ug/g	1.1	0.050	7993797	1.3	0.050	7944622		
Acid Extractable Vanadium (V)	ug/g	42	5.0	7993797	40	5.0	7944622		
Acid Extractable Zinc (Zn)	ug/g	74	5.0	7993797	75	5.0	7944622		
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7993797	<0.050	0.050	7944622		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL283			SIL286			SIL286		
Sampling Date		2022/04/07 15:00			2022/04/07 16:15			2022/04/07 16:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH234-91A	RDL	QC Batch	1-BH235-1A	RDL	QC Batch	1-BH235-1A Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	1.2		7985918	0.73		7937377			
Inorganics										
Conductivity	mS/cm	1.1	0.002	7993348	0.41	0.002	7945053			
Moisture	%				21	1.0	7938315			
Available (CaCl2) pH	pH	7.11		7994248	7.94		7944700			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7993299	<0.01	0.01	7944042	<0.01	0.01	7944042
Chromium (VI)	ug/g	<0.18	0.18	7993758	<0.18	0.18	7944063	<0.18	0.18	7944063
Metals										
Hot Water Ext. Boron (B)	ug/g	0.13	0.050	7991491	0.085	0.050	7944366			
Acid Extractable Antimony (Sb)	ug/g	0.23	0.20	7991179	<0.20	0.20	7944622			
Acid Extractable Arsenic (As)	ug/g	6.9	1.0	7991179	4.2	1.0	7944622			
Acid Extractable Barium (Ba)	ug/g	130	0.50	7991179	130	0.50	7944622			
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7991179	0.93	0.20	7944622			
Acid Extractable Boron (B)	ug/g	8.0	5.0	7991179	7.7	5.0	7944622			
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7991179	0.12	0.10	7944622			
Acid Extractable Chromium (Cr)	ug/g	31	1.0	7991179	27	1.0	7944622			
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7991179	14	0.10	7944622			
Acid Extractable Copper (Cu)	ug/g	25	0.50	7991179	25	0.50	7944622			
Acid Extractable Lead (Pb)	ug/g	13	1.0	7991179	10	1.0	7944622			
Acid Extractable Molybdenum (Mo)	ug/g	0.61	0.50	7991179	<0.50	0.50	7944622			
Acid Extractable Nickel (Ni)	ug/g	35	0.50	7991179	32	0.50	7944622			
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7991179	<0.50	0.50	7944622			
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7991179	<0.20	0.20	7944622			
Acid Extractable Thallium (Tl)	ug/g	0.20	0.050	7991179	0.17	0.050	7944622			
Acid Extractable Uranium (U)	ug/g	1.7	0.050	7991179	0.93	0.050	7944622			
Acid Extractable Vanadium (V)	ug/g	42	5.0	7991179	36	5.0	7944622			
Acid Extractable Zinc (Zn)	ug/g	73	5.0	7991179	63	5.0	7944622			
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7991179	<0.050	0.050	7944622			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL289			SIL289			SIL293		
Sampling Date		2022/04/07 16:25			2022/04/07 16:25			2022/04/07 17:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH235-2B	RDL	QC Batch	1-BH235-2B Lab-Dup	RDL	QC Batch	1-BH236-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A							0.75		7937377
Inorganics										
Conductivity	mS/cm							0.84	0.002	7945053
Moisture	%							17	1.0	7938315
Available (CaCl2) pH	pH	7.91		7994222	7.97		7994222	7.82		7944703
WAD Cyanide (Free)	ug/g	<0.01	0.01	7993289	<0.01	0.01	7993289	<0.01	0.01	7944030
Chromium (VI)	ug/g	<0.18	0.18	7993725	<0.18	0.18	7993725	<0.18	0.18	7944265
Metals										
Hot Water Ext. Boron (B)	ug/g	0.33	0.050	7993668				0.10	0.050	7944366
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7991207				0.21	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	4.7	1.0	7991207				5.2	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	160	0.50	7991207				170	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	0.73	0.20	7991207				1.1	0.20	7944622
Acid Extractable Boron (B)	ug/g	10	5.0	7991207				7.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7991207				<0.10	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7991207				31	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7991207				17	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	26	0.50	7991207				26	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	8.0	1.0	7991207				13	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	0.70	0.50	7991207				0.59	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	32	0.50	7991207				36	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7991207				<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7991207				<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.13	0.050	7991207				0.18	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.80	0.050	7991207				1.3	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	33	5.0	7991207				44	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	62	5.0	7991207				68	5.0	7944622
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7991207				<0.050	0.050	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL293			SIL298			SIL298		
Sampling Date		2022/04/07 17:15			2022/04/07 17:25			2022/04/07 17:25		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH236-1A Lab-Dup	RDL	QC Batch	1-BH236-2B	RDL	QC Batch	1-BH236-2B Lab-Dup	RDL	QC Batch
Inorganics										
Moisture	%	17	1.0	7938315	17	1.0	7986740			
Available (CaCl2) pH	pH				7.93		7994248			
WAD Cyanide (Free)	ug/g				<0.01	0.01	7993299			
Chromium (VI)	ug/g				<0.18	0.18	7993758			
Metals										
Hot Water Ext. Boron (B)	ug/g				0.50	0.050	7993680	0.51	0.050	7993680
Acid Extractable Antimony (Sb)	ug/g				<0.20	0.20	7993797			
Acid Extractable Arsenic (As)	ug/g				7.1	1.0	7993797			
Acid Extractable Barium (Ba)	ug/g				110	0.50	7993797			
Acid Extractable Beryllium (Be)	ug/g				0.80	0.20	7993797			
Acid Extractable Boron (B)	ug/g				12	5.0	7993797			
Acid Extractable Cadmium (Cd)	ug/g				<0.10	0.10	7993797			
Acid Extractable Chromium (Cr)	ug/g				26	1.0	7993797			
Acid Extractable Cobalt (Co)	ug/g				15	0.10	7993797			
Acid Extractable Copper (Cu)	ug/g				26	0.50	7993797			
Acid Extractable Lead (Pb)	ug/g				8.9	1.0	7993797			
Acid Extractable Molybdenum (Mo)	ug/g				0.84	0.50	7993797			
Acid Extractable Nickel (Ni)	ug/g				32	0.50	7993797			
Acid Extractable Selenium (Se)	ug/g				<0.50	0.50	7993797			
Acid Extractable Silver (Ag)	ug/g				<0.20	0.20	7993797			
Acid Extractable Thallium (Tl)	ug/g				0.14	0.050	7993797			
Acid Extractable Uranium (U)	ug/g				0.99	0.050	7993797			
Acid Extractable Vanadium (V)	ug/g				36	5.0	7993797			
Acid Extractable Zinc (Zn)	ug/g				64	5.0	7993797			
Acid Extractable Mercury (Hg)	ug/g				<0.050	0.050	7993797			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL282			SIL283			SIL286		
Sampling Date		2022/04/07 15:00			2022/04/07 15:00			2022/04/07 16:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH234-1A	RDL	QC Batch	1-BH234-91A	RDL	QC Batch	1-BH235-1A	RDL	QC Batch
Inorganics										
Moisture	%				18	1.0	7938767			
Calculated Parameters										
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	0.015	7935929	<0.015	0.015	7935929	<0.015	0.015	7935929
Pesticides & Herbicides										
Aldrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
a-Chlordane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
g-Chlordane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDD	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDD	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDE	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDE	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
o,p-DDT	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
p,p-DDT	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Dieldrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Lindane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Endrin	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Heptachlor	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Heptachlor epoxide	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachlorobenzene	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Hexachloroethane	ug/g	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061	<0.0020	0.0020	7945061
Methoxychlor	ug/g	<0.0050	0.0050	7945061	<0.0050	0.0050	7945061	<0.0050	0.0050	7945061
Aroclor 1242	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Aroclor 1248	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL282			SIL283			SIL286		
Sampling Date		2022/04/07 15:00			2022/04/07 15:00			2022/04/07 16:15		
COC Number		839493-01-01			839493-01-01			839493-01-01		
	UNITS	1-BH234-1A	RDL	QC Batch	1-BH234-91A	RDL	QC Batch	1-BH235-1A	RDL	QC Batch
Aroclor 1254	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Aroclor 1260	ug/g	<0.015	0.015	7945061	<0.015	0.015	7945061	<0.015	0.015	7945061
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	76		7945061	80		7945061	79		7945061
Decachlorobiphenyl	%	69		7945061	70		7945061	73		7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	0.015	7935929
Pesticides & Herbicides				
Aldrin	ug/g	<0.0020	0.0020	7945061
a-Chlordane	ug/g	<0.0020	0.0020	7945061
g-Chlordane	ug/g	<0.0020	0.0020	7945061
o,p-DDD	ug/g	<0.0020	0.0020	7945061
p,p-DDD	ug/g	<0.0020	0.0020	7945061
o,p-DDE	ug/g	<0.0020	0.0020	7945061
p,p-DDE	ug/g	<0.0020	0.0020	7945061
o,p-DDT	ug/g	<0.0020	0.0020	7945061
p,p-DDT	ug/g	<0.0020	0.0020	7945061
Dieldrin	ug/g	<0.0020	0.0020	7945061
Lindane	ug/g	<0.0020	0.0020	7945061
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7945061
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7945061
Endrin	ug/g	<0.0020	0.0020	7945061
Heptachlor	ug/g	<0.0020	0.0020	7945061
Heptachlor epoxide	ug/g	<0.0020	0.0020	7945061
Hexachlorobenzene	ug/g	<0.0020	0.0020	7945061
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7945061
Hexachloroethane	ug/g	<0.0020	0.0020	7945061
Methoxychlor	ug/g	<0.0050	0.0050	7945061
Aroclor 1242	ug/g	<0.015	0.015	7945061
Aroclor 1248	ug/g	<0.015	0.015	7945061
Aroclor 1254	ug/g	<0.015	0.015	7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
Aroclor 1260	ug/g	<0.015	0.015	7945061
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	78		7945061
Decachlorobiphenyl	%	73		7945061

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIL278		
Sampling Date		2022/04/07 11:20		
COC Number		839493-01-01		
	UNITS	1-BH232-1A	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7937371
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	7944000
Acenaphthylene	ug/g	<0.0050	0.0050	7944000
Anthracene	ug/g	<0.0050	0.0050	7944000
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7944000
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7944000
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7944000
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7944000
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7944000
Chrysene	ug/g	<0.0050	0.0050	7944000
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7944000
Fluoranthene	ug/g	<0.0050	0.0050	7944000
Fluorene	ug/g	<0.0050	0.0050	7944000
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7944000
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000
Naphthalene	ug/g	<0.0050	0.0050	7944000
Phenanthrene	ug/g	<0.0050	0.0050	7944000
Pyrene	ug/g	<0.0050	0.0050	7944000
Surrogate Recovery (%)				
D10-Anthracene	%	92		7944000
D14-Terphenyl (FS)	%	94		7944000
D8-Acenaphthylene	%	85		7944000

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL278	SIL280	SIL282			SIL289		
Sampling Date		2022/04/07 11:20	2022/04/07 13:30	2022/04/07 15:00			2022/04/07 16:25		
COC Number		839493-01-01	839493-01-01	839493-01-01			839493-01-01		
	UNITS	1-BH232-1A	1-BH233-1A	1-BH234-1A	RDL	QC Batch	1-BH235-2B	RDL	QC Batch
Inorganics									
Moisture	%						20	1.0	7938767
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7944244	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	7944244	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	7944244	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	<10	<10	10	7944244	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7944244	<10	10	7944244
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7944979	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	50	7944979	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7944979	<50	50	7944979
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7944979	Yes		7944979
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	100	102	101		7944244	101		7944244
4-Bromofluorobenzene	%	98	94	98		7944244	97		7944244
D10-o-Xylene	%	111	114	108		7944244	117		7944244
D4-1,2-Dichloroethane	%	107	107	109		7944244	107		7944244
o-Terphenyl	%	101	97	100		7944979	100		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL293		
Sampling Date		2022/04/07 17:15		
COC Number		839493-01-01		
	UNITS	1-BH236-1A	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	7944244
Toluene	ug/g	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	10	7944244
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7944979
Reached Baseline at C50	ug/g	Yes		7944979
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		7944244
4-Bromofluorobenzene	%	97		7944244
D10-o-Xylene	%	110		7944244
D4-1,2-Dichloroethane	%	105		7944244
o-Terphenyl	%	101		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL279	SIL281		SIL284		SIL289		
Sampling Date		2022/04/07 11:30	2022/04/07 13:40		2022/04/07 15:10		2022/04/07 16:25		
COC Number		839493-01-01	839493-01-01		839493-01-01		839493-01-01		
	UNITS	1-BH232-2B	1-BH233-2B	QC Batch	1-BH234-2B	QC Batch	1-BH235-2B	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	1.0	1.2	7937377	0.96	7937377	0.94		7937377
Inorganics									
Conductivity	mS/cm	1.2	1.8	7945053	1.1	7945023	0.56	0.002	7945053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		SIL298		
Sampling Date		2022/04/07 17:25		
COC Number		839493-01-01		
	UNITS	1-BH236-2B	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.67		7937377
Inorganics				
Conductivity	mS/cm	3.3	0.002	7945053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SIL278 **Collected:** 2022/04/07
Sample ID: 1-BH232-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7937371	N/A	2022/04/19	Automated Statchk
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL279 **Collected:** 2022/04/07
Sample ID: 1-BH232-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7991491	2022/05/12	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993797	2022/05/13	2022/05/13	Viviana Canzonieri
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL280 **Collected:** 2022/04/07
Sample ID: 1-BH233-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIL281 **Collected:** 2022/04/07
Sample ID: 1-BH233-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7991491	2022/05/12	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993797	2022/05/13	2022/05/13	Viviana Canzonieri
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL282 **Collected:** 2022/04/07
Sample ID: 1-BH234-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL282 Dup **Collected:** 2022/04/07
Sample ID: 1-BH234-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar

Bureau Veritas ID: SIL283 **Collected:** 2022/04/07
Sample ID: 1-BH234-91A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7991491	2022/05/12	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7993348	2022/05/13	2022/05/13	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7991179	2022/05/12	2022/05/13	Azita Fazaeli

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL283 **Collected:** 2022/04/07
Sample ID: 1-BH234-91A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7938767	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7985918	N/A	2022/05/13	Automated Statchk

Bureau Veritas ID: SIL284 **Collected:** 2022/04/07
Sample ID: 1-BH234-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945023	2022/04/18	2022/04/19	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL286 **Collected:** 2022/04/07
Sample ID: 1-BH235-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944700	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL286 Dup **Collected:** 2022/04/07
Sample ID: 1-BH235-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Hexavalent Chromium in Soil by IC	IC/SPEC	7944063	2022/04/18	2022/04/19	Surleen Kaur Romana

Bureau Veritas ID: SIL289 **Collected:** 2022/04/07
Sample ID: 1-BH235-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993668	2022/05/13	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993289	2022/05/13	2022/05/13	Nimarta Singh

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL289
Sample ID: 1-BH235-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7991207	2022/05/12	2022/05/13	Azita Fazaeli
Moisture	BAL	7938767	N/A	2022/04/13	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL289 Dup
Sample ID: 1-BH235-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7993289	2022/05/13	2022/05/13	Nimarta Singh
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar

Bureau Veritas ID: SIL293
Sample ID: 1-BH236-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7944366	2022/04/18	2022/04/21	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944030	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7944265	2022/04/18	2022/04/21	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7945061	2022/04/18	2022/04/19	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/14	Automated Statchk
pH CaCl2 EXTRACT	AT	7944703	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL293 Dup
Sample ID: 1-BH236-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7938315	N/A	2022/04/13	Kruti Jitesh Patel

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Bureau Veritas Job #: C296127
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL298
Sample ID: 1-BH236-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993680	2022/05/13	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7945053	2022/04/18	2022/04/19	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993797	2022/05/13	2022/05/13	Viviana Canzonieri
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7937377	N/A	2022/04/21	Automated Statchk

Bureau Veritas ID: SIL298 Dup
Sample ID: 1-BH236-2B
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993680	2022/05/13	2022/05/13	Medhat Nasr

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944000	D10-Anthracene	2022/04/18	95	50 - 130	97	50 - 130	98	%		
7944000	D14-Terphenyl (FS)	2022/04/18	98	50 - 130	100	50 - 130	98	%		
7944000	D8-Acenaphthylene	2022/04/18	90	50 - 130	95	50 - 130	90	%		
7944244	1,4-Difluorobenzene	2022/04/18	98	60 - 140	99	60 - 140	102	%		
7944244	4-Bromofluorobenzene	2022/04/18	105	60 - 140	103	60 - 140	96	%		
7944244	D10-o-Xylene	2022/04/18	117	60 - 140	93	60 - 140	105	%		
7944244	D4-1,2-Dichloroethane	2022/04/18	103	60 - 140	101	60 - 140	109	%		
7944979	o-Terphenyl	2022/04/19	98	60 - 130	92	60 - 130	101	%		
7945061	2,4,5,6-Tetrachloro-m-xylene	2022/04/19	113	50 - 130	83	50 - 130	82	%		
7945061	Decachlorobiphenyl	2022/04/19	79	50 - 130	88	50 - 130	84	%		
7938315	Moisture	2022/04/13							0.59	20
7938767	Moisture	2022/04/13							1.2	20
7944000	1-Methylnaphthalene	2022/04/18	98	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	2-Methylnaphthalene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthene	2022/04/18	97	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthylene	2022/04/18	94	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Anthracene	2022/04/18	98	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)anthracene	2022/04/18	106	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)pyrene	2022/04/18	87	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(b/j)fluoranthene	2022/04/18	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(g,h,i)perylene	2022/04/18	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(k)fluoranthene	2022/04/18	100	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7944000	Chrysene	2022/04/18	101	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
7944000	Dibenzo(a,h)anthracene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluoranthene	2022/04/18	104	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluorene	2022/04/18	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7944000	Indeno(1,2,3-cd)pyrene	2022/04/18	91	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Naphthalene	2022/04/18	87	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
7944000	Phenanthrene	2022/04/18	97	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Pyrene	2022/04/18	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
7944030	WAD Cyanide (Free)	2022/04/18	87	75 - 125	91	80 - 120	<0.01	ug/g	NC	35

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944042	WAD Cyanide (Free)	2022/04/18	89	75 - 125	92	80 - 120	<0.01	ug/g	NC	35
7944063	Chromium (VI)	2022/04/19	86	70 - 130	91	80 - 120	<0.18	ug/g	NC	35
7944244	Benzene	2022/04/18	108	50 - 140	109	50 - 140	<0.020	ug/g	NC	50
7944244	Ethylbenzene	2022/04/18	123	50 - 140	103	50 - 140	<0.020	ug/g	NC	50
7944244	F1 (C6-C10) - BTEX	2022/04/18					<10	ug/g	NC	30
7944244	F1 (C6-C10)	2022/04/18	88	60 - 140	88	80 - 120	<10	ug/g	NC	30
7944244	o-Xylene	2022/04/18	118	50 - 140	112	50 - 140	<0.020	ug/g	NC	50
7944244	p+m-Xylene	2022/04/18	115	50 - 140	111	50 - 140	<0.040	ug/g	NC	50
7944244	Toluene	2022/04/18	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
7944244	Total Xylenes	2022/04/18					<0.040	ug/g	NC	50
7944265	Chromium (VI)	2022/04/21	77	70 - 130	89	80 - 120	<0.18	ug/g	NC	35
7944366	Hot Water Ext. Boron (B)	2022/04/21	106	75 - 125	98	75 - 125	<0.050	ug/g	4.0	40
7944622	Acid Extractable Antimony (Sb)	2022/04/19	100	75 - 125	105	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Arsenic (As)	2022/04/19	98	75 - 125	100	80 - 120	<1.0	ug/g	6.8	30
7944622	Acid Extractable Barium (Ba)	2022/04/19	NC	75 - 125	99	80 - 120	<0.50	ug/g	0.72	30
7944622	Acid Extractable Beryllium (Be)	2022/04/19	102	75 - 125	103	80 - 120	<0.20	ug/g	1.1	30
7944622	Acid Extractable Boron (B)	2022/04/19	96	75 - 125	92	80 - 120	<5.0	ug/g	NC	30
7944622	Acid Extractable Cadmium (Cd)	2022/04/19	101	75 - 125	103	80 - 120	<0.10	ug/g	NC	30
7944622	Acid Extractable Chromium (Cr)	2022/04/19	104	75 - 125	105	80 - 120	<1.0	ug/g	7.8	30
7944622	Acid Extractable Cobalt (Co)	2022/04/19	102	75 - 125	106	80 - 120	<0.10	ug/g	5.1	30
7944622	Acid Extractable Copper (Cu)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	1.5	30
7944622	Acid Extractable Lead (Pb)	2022/04/19	97	75 - 125	104	80 - 120	<1.0	ug/g	3.3	30
7944622	Acid Extractable Mercury (Hg)	2022/04/19	89	75 - 125	91	80 - 120	<0.050	ug/g		
7944622	Acid Extractable Molybdenum (Mo)	2022/04/19	105	75 - 125	103	80 - 120	<0.50	ug/g	15	30
7944622	Acid Extractable Nickel (Ni)	2022/04/19	99	75 - 125	105	80 - 120	<0.50	ug/g	2.7	30
7944622	Acid Extractable Selenium (Se)	2022/04/19	103	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7944622	Acid Extractable Silver (Ag)	2022/04/19	103	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Thallium (Tl)	2022/04/19	104	75 - 125	106	80 - 120	<0.050	ug/g	1.0	30
7944622	Acid Extractable Uranium (U)	2022/04/19	102	75 - 125	101	80 - 120	<0.050	ug/g	0.061	30
7944622	Acid Extractable Vanadium (V)	2022/04/19	95	75 - 125	103	80 - 120	<5.0	ug/g	16	30
7944622	Acid Extractable Zinc (Zn)	2022/04/19	NC	75 - 125	105	80 - 120	<5.0	ug/g	0.19	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944700	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.18	N/A
7944703	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.49	N/A
7944979	F2 (C10-C16 Hydrocarbons)	2022/04/19	101	60 - 130	93	80 - 120	<10	ug/g	NC	30
7944979	F3 (C16-C34 Hydrocarbons)	2022/04/19	106	60 - 130	99	80 - 120	<50	ug/g	11	30
7944979	F4 (C34-C50 Hydrocarbons)	2022/04/19	110	60 - 130	102	80 - 120	<50	ug/g	NC	30
7945023	Conductivity	2022/04/19			100	90 - 110	<0.002	mS/cm	0	10
7945053	Conductivity	2022/04/19			99	90 - 110	<0.002	mS/cm	0.35	10
7945061	a-Chlordane	2022/04/19	112	50 - 130	87	50 - 130	<0.0020	ug/g	NC	40
7945061	Aldrin	2022/04/19	110	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7945061	Aroclor 1242	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1248	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1254	2022/04/19					<0.015	ug/g	NC	40
7945061	Aroclor 1260	2022/04/19					<0.015	ug/g	NC	40
7945061	Dieldrin	2022/04/19	113	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40
7945061	Endosulfan I (alpha)	2022/04/19	107	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Endosulfan II (beta)	2022/04/19	91	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Endrin	2022/04/19	115	50 - 130	93	50 - 130	<0.0020	ug/g	NC	40
7945061	g-Chlordane	2022/04/19	110	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
7945061	Heptachlor epoxide	2022/04/19	109	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7945061	Heptachlor	2022/04/19	110	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachlorobenzene	2022/04/19	126	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachlorobutadiene	2022/04/19	83	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40
7945061	Hexachloroethane	2022/04/19	68	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7945061	Lindane	2022/04/19	122	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40
7945061	Methoxychlor	2022/04/19	87	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7945061	o,p-DDD	2022/04/19	84	50 - 130	97	50 - 130	<0.0020	ug/g	NC	40
7945061	o,p-DDE	2022/04/19	115	50 - 130	87	50 - 130	<0.0020	ug/g	NC	40
7945061	o,p-DDT	2022/04/19	102	50 - 130	98	50 - 130	<0.0020	ug/g	NC	40
7945061	p,p-DDD	2022/04/19	57	50 - 130	87	50 - 130	<0.0020	ug/g	36	40
7945061	p,p-DDE	2022/04/19	NC	50 - 130	92	50 - 130	<0.0020	ug/g	104 (1)	40
7945061	p,p-DDT	2022/04/19	74	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7986740	Moisture	2022/05/10							1.7	20
7991179	Acid Extractable Antimony (Sb)	2022/05/13	97	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
7991179	Acid Extractable Arsenic (As)	2022/05/13	97	75 - 125	101	80 - 120	<1.0	ug/g	5.7	30
7991179	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	106	80 - 120	<0.50	ug/g	2.9	30
7991179	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	105	80 - 120	<0.20	ug/g	4.3	30
7991179	Acid Extractable Boron (B)	2022/05/13	105	75 - 125	102	80 - 120	<5.0	ug/g	3.7	30
7991179	Acid Extractable Cadmium (Cd)	2022/05/13	96	75 - 125	97	80 - 120	<0.10	ug/g	NC	30
7991179	Acid Extractable Chromium (Cr)	2022/05/13	104	75 - 125	101	80 - 120	<1.0	ug/g	7.8	30
7991179	Acid Extractable Cobalt (Co)	2022/05/13	102	75 - 125	103	80 - 120	<0.10	ug/g	5.0	30
7991179	Acid Extractable Copper (Cu)	2022/05/13	99	75 - 125	101	80 - 120	<0.50	ug/g	1.0	30
7991179	Acid Extractable Lead (Pb)	2022/05/13	93	75 - 125	97	80 - 120	<1.0	ug/g	5.1	30
7991179	Acid Extractable Mercury (Hg)	2022/05/13	83	75 - 125	84	80 - 120	<0.050	ug/g	NC	30
7991179	Acid Extractable Molybdenum (Mo)	2022/05/13	101	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7991179	Acid Extractable Nickel (Ni)	2022/05/13	103	75 - 125	102	80 - 120	<0.50	ug/g	6.5	30
7991179	Acid Extractable Selenium (Se)	2022/05/13	99	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
7991179	Acid Extractable Silver (Ag)	2022/05/13	97	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7991179	Acid Extractable Thallium (Tl)	2022/05/13	93	75 - 125	97	80 - 120	<0.050	ug/g	18	30
7991179	Acid Extractable Uranium (U)	2022/05/13	101	75 - 125	103	80 - 120	<0.050	ug/g	5.0	30
7991179	Acid Extractable Vanadium (V)	2022/05/13	106	75 - 125	102	80 - 120	<5.0	ug/g	5.1	30
7991179	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	95	80 - 120	<5.0	ug/g	4.0	30
7991207	Acid Extractable Antimony (Sb)	2022/05/13	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7991207	Acid Extractable Arsenic (As)	2022/05/13	106	75 - 125	103	80 - 120	<1.0	ug/g	4.3	30
7991207	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	3.1	30
7991207	Acid Extractable Beryllium (Be)	2022/05/13	109	75 - 125	104	80 - 120	<0.20	ug/g	8.6	30
7991207	Acid Extractable Boron (B)	2022/05/13	98	75 - 125	101	80 - 120	<5.0	ug/g	NC	30
7991207	Acid Extractable Cadmium (Cd)	2022/05/13	104	75 - 125	97	80 - 120	<0.10	ug/g	24	30
7991207	Acid Extractable Chromium (Cr)	2022/05/13	110	75 - 125	101	80 - 120	<1.0	ug/g	1.5	30
7991207	Acid Extractable Cobalt (Co)	2022/05/13	108	75 - 125	101	80 - 120	<0.10	ug/g	4.9	30
7991207	Acid Extractable Copper (Cu)	2022/05/13	107	75 - 125	100	80 - 120	<0.50	ug/g	2.1	30
7991207	Acid Extractable Lead (Pb)	2022/05/13	102	75 - 125	96	80 - 120	<1.0	ug/g	2.5	30
7991207	Acid Extractable Mercury (Hg)	2022/05/13	91	75 - 125	83	80 - 120	<0.050	ug/g		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7991207	Acid Extractable Molybdenum (Mo)	2022/05/13	108	75 - 125	100	80 - 120	<0.50	ug/g	7.6	30
7991207	Acid Extractable Nickel (Ni)	2022/05/13	108	75 - 125	99	80 - 120	<0.50	ug/g	2.8	30
7991207	Acid Extractable Selenium (Se)	2022/05/13	107	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7991207	Acid Extractable Silver (Ag)	2022/05/13	106	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
7991207	Acid Extractable Thallium (Tl)	2022/05/13	103	75 - 125	96	80 - 120	<0.050	ug/g	14	30
7991207	Acid Extractable Uranium (U)	2022/05/13	110	75 - 125	103	80 - 120	<0.050	ug/g	1.3	30
7991207	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	101	80 - 120	<5.0	ug/g	6.4	30
7991207	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	93	80 - 120	<5.0	ug/g	4.6	30
7991491	Hot Water Ext. Boron (B)	2022/05/12	108	75 - 125	102	75 - 125	<0.050	ug/g	10	40
7993289	WAD Cyanide (Free)	2022/05/13	85	75 - 125	92	80 - 120	<0.01	ug/g	NC	35
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35
7993348	Conductivity	2022/05/13			100	90 - 110	<0.002	mS/cm	2.3	10
7993668	Hot Water Ext. Boron (B)	2022/05/13	112	75 - 125	108	75 - 125	<0.050	ug/g	NC	40
7993680	Hot Water Ext. Boron (B)	2022/05/13	117	75 - 125	112	75 - 125	<0.050	ug/g	3.9	40
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35
7993758	Chromium (VI)	2022/05/13	80	70 - 130	92	80 - 120	<0.18	ug/g	NC	35
7993797	Acid Extractable Antimony (Sb)	2022/05/13	95	75 - 125	94	80 - 120	<0.20	ug/g	NC	30
7993797	Acid Extractable Arsenic (As)	2022/05/13	103	75 - 125	93	80 - 120	<1.0	ug/g	2.1	30
7993797	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	96	80 - 120	<0.50	ug/g	0.51	30
7993797	Acid Extractable Beryllium (Be)	2022/05/13	107	75 - 125	93	80 - 120	<0.20	ug/g	0.37	30
7993797	Acid Extractable Boron (B)	2022/05/13	99	75 - 125	90	80 - 120	<5.0	ug/g	NC	30
7993797	Acid Extractable Cadmium (Cd)	2022/05/13	102	75 - 125	92	80 - 120	<0.10	ug/g	14	30
7993797	Acid Extractable Chromium (Cr)	2022/05/13	109	75 - 125	95	80 - 120	<1.0	ug/g	3.0	30
7993797	Acid Extractable Cobalt (Co)	2022/05/13	106	75 - 125	95	80 - 120	<0.10	ug/g	5.0	30
7993797	Acid Extractable Copper (Cu)	2022/05/13	103	75 - 125	92	80 - 120	<0.50	ug/g	6.4	30
7993797	Acid Extractable Lead (Pb)	2022/05/13	110	75 - 125	97	80 - 120	<1.0	ug/g	6.1	30
7993797	Acid Extractable Mercury (Hg)	2022/05/13	90	75 - 125	88	80 - 120	<0.050	ug/g	NC	30
7993797	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30
7993797	Acid Extractable Nickel (Ni)	2022/05/13	109	75 - 125	94	80 - 120	<0.50	ug/g	4.3	30
7993797	Acid Extractable Selenium (Se)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30
7993797	Acid Extractable Silver (Ag)	2022/05/13	106	75 - 125	95	80 - 120	<0.20	ug/g	NC	30

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

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7993797	Acid Extractable Thallium (Tl)	2022/05/13	106	75 - 125	95	80 - 120	<0.050	ug/g	0.51	30
7993797	Acid Extractable Uranium (U)	2022/05/13	107	75 - 125	96	80 - 120	<0.050	ug/g	1.6	30
7993797	Acid Extractable Vanadium (V)	2022/05/13	107	75 - 125	95	80 - 120	<5.0	ug/g	2.6	30
7993797	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	90	80 - 120	<5.0	ug/g	7.0	30
7994222	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.79	N/A
7994248	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.40	N/A

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.

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) Duplicate results exceeded RPD acceptance criteria. This may be due to sample heterogeneity.

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VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01824~~ C21481	BV Labs Job #:	Bottle Order #: 839493
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #: C#839493-01-01	Project Manager: Ema Gitej
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF		
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	RSC1		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	RAYUAN		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Include Criteria on Certificate of Analysis (Y/N)?

Special Instructions

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX, PHCs (F1-F4) O.Reg 153	METALS AND INORGANICS O.REG 153	OC PESTICIDES O.REG 153	EC/SAR O.REG 153	VOCS, PHCS (F1-F4) O.REG 153	PAHS O.REG 153					# of Bottles	Comments
1		~~1-BH231-1A~~	~~APRIL 7/22~~	~~11 20AM~~	~~SOIL~~	~~N~~	~~X~~	~~X~~				~~X~~					~~5~~	
2		~~1-BH231-2~~		~~11 30AM~~						~~X~~							~~1~~	
3	✓	1-BH232-1A	APRIL 7/22	1120AM	SOIL		X	X				X					5	
4	✓	1-BH232-2B		1130AM						X							1	
5	✓	1-BH233-1A		1 30PM			X	X									5	
6	✓	1-BH233-2B		140PM						X							1	
7	✓	1-BH234-1A		3PM			X	X	X								6	
8	✓	1-BH234-1A		3PM					X								1	
9	✓	1-BH234-2B		310PM						X							1	
10	✓	1-BH235-1A		415PM				X	X								2	

11-Apr-22 17:30
Ema Gitej
C296127
SRS ENV-1196

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Raymond Ayman / [signature]	22/04/07	830PM	Arluthe Reekumar	2022/04/11	17:30	Ø		1/3/3	Present	✓	
			Ashini Sukumar	2022/04/11					Intact		✓

Laboratory Use Only

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

BV...

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

CHAIN OF CUSTODY RECORD

Page 2 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01024~~ C2148	BV Labs Job #:	Bottle Order #: 839493
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #: C#839493-02-01	Project Manager: Ema Gitej
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF		
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	RSC 1		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	R. AYMEN		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [ ] Res/Park [x] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/Other [x] For RSC
- [x] Table 5

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality
- [ ] PWQO [ ] Reg 406 Table
- [ ] Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX / PHCS (F1-F4)	METALS AND INORGANICS	OC PESTICIDES	EC/SAR	VOCS PHCS (F1-F4)	PAHS					# of Bottles	Comments
1	✓	1-BH235-2B	APRIL 7/22	425 PM	SOIL	N	X			X							5	
2	✓	1-BH236-1A	↓	515 PM	↓	N	X	X	X								5	
3	✓	1-BH236-2B	↓	525 PM	↓	N				X							1	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: [ ]
Rush Confirmation Number: *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
RAYMOND AYMEN	22/04/07	830pm	Ashith Alekuwar / ASHITH NEEKUWAR	2022/04/11	17:30	0		1/3/3	Present	✓	
									Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

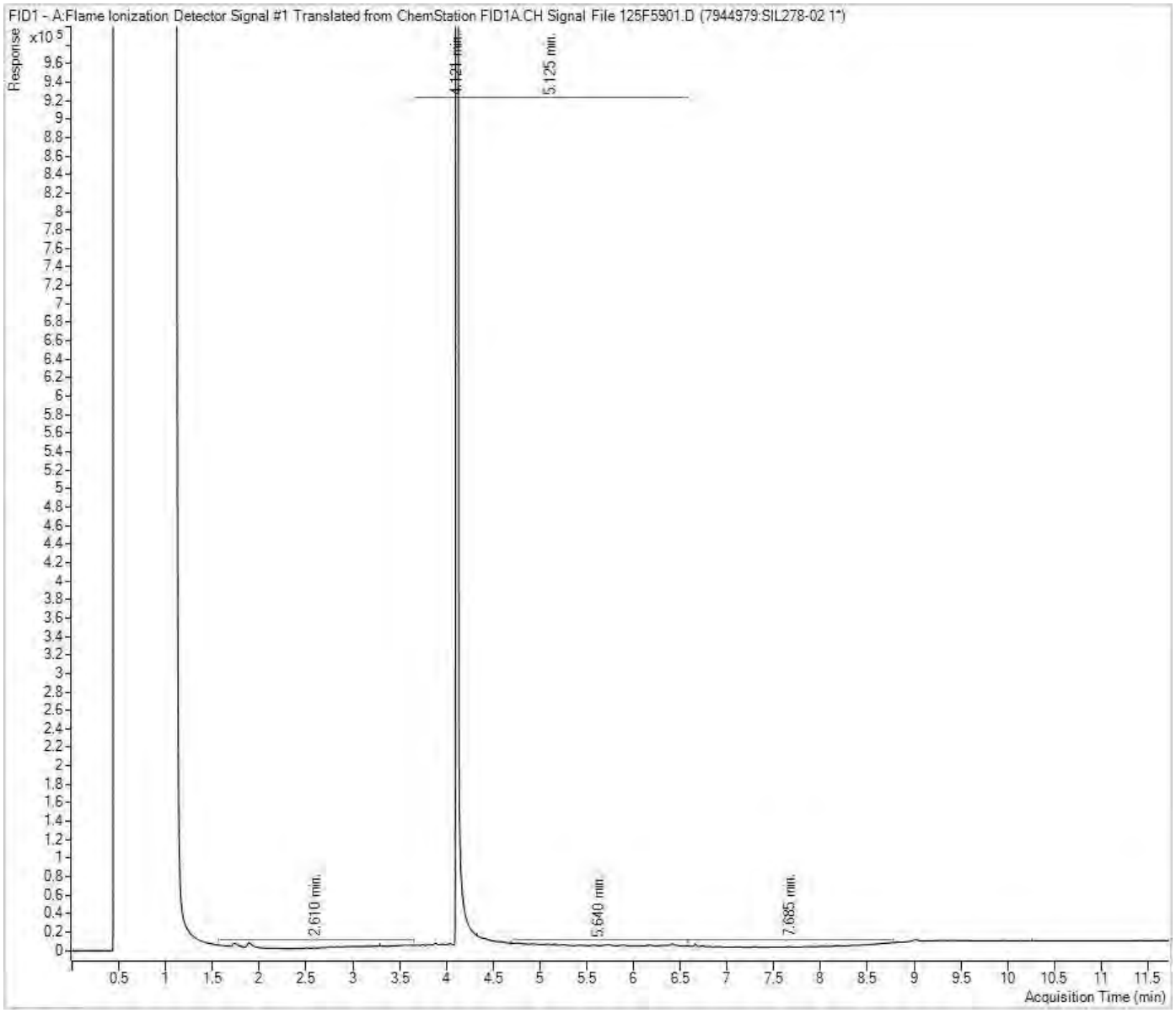
B V Deuen

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17
Bureau Veritas Sample: SIL278

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH232-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

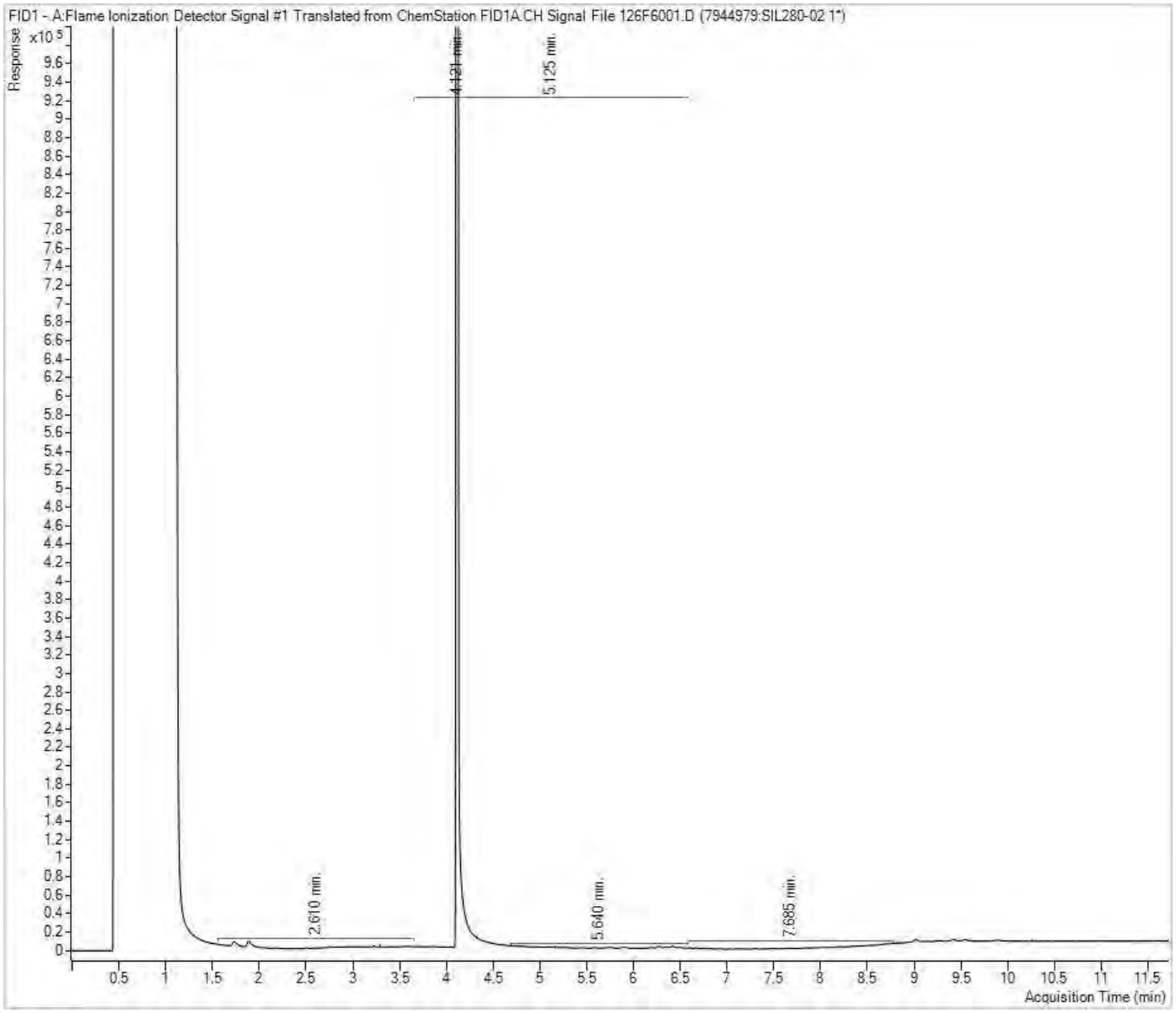


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17
Bureau Veritas Sample: SIL280

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH233-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

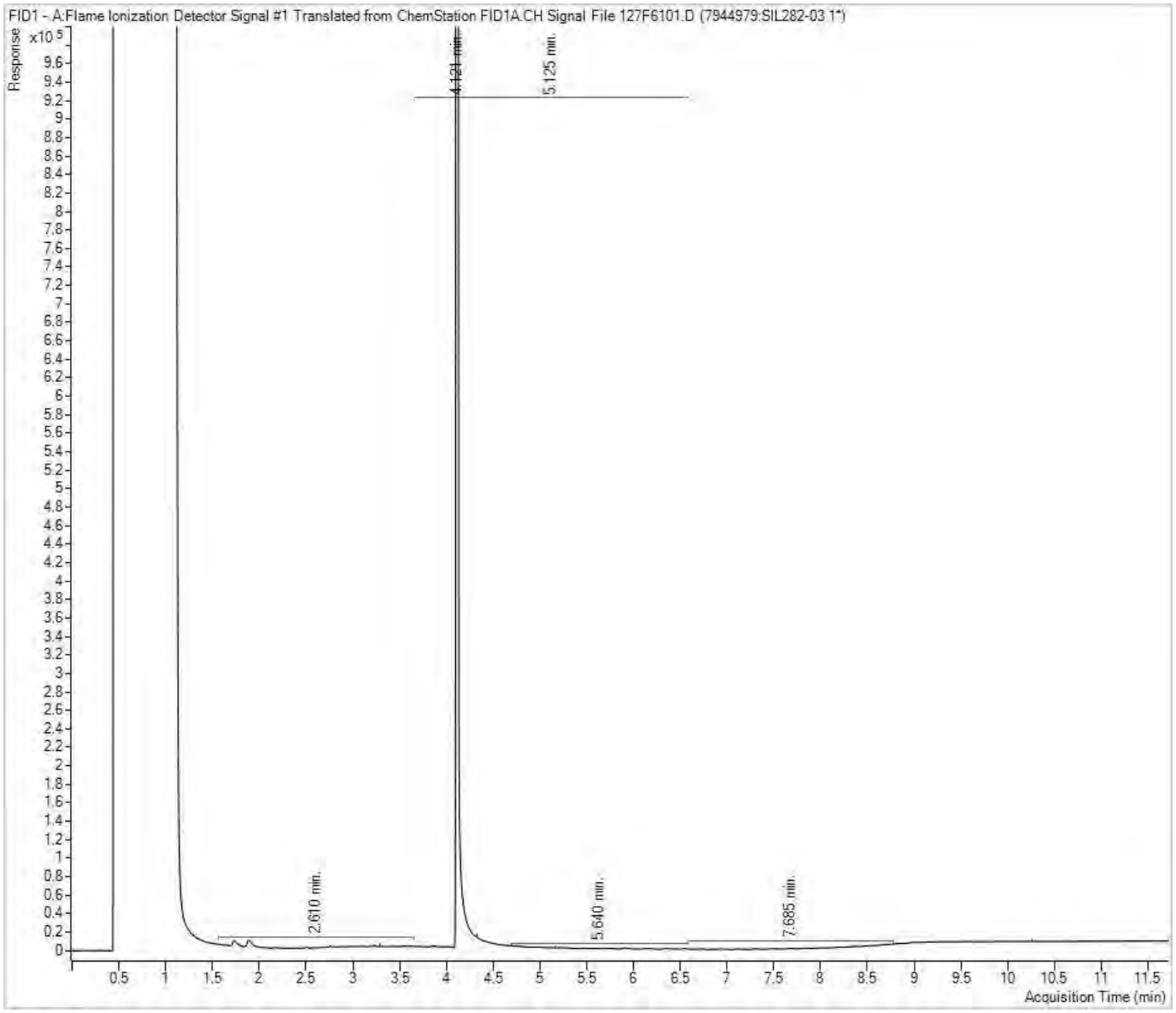


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17
Bureau Veritas Sample: SIL282

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH234-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

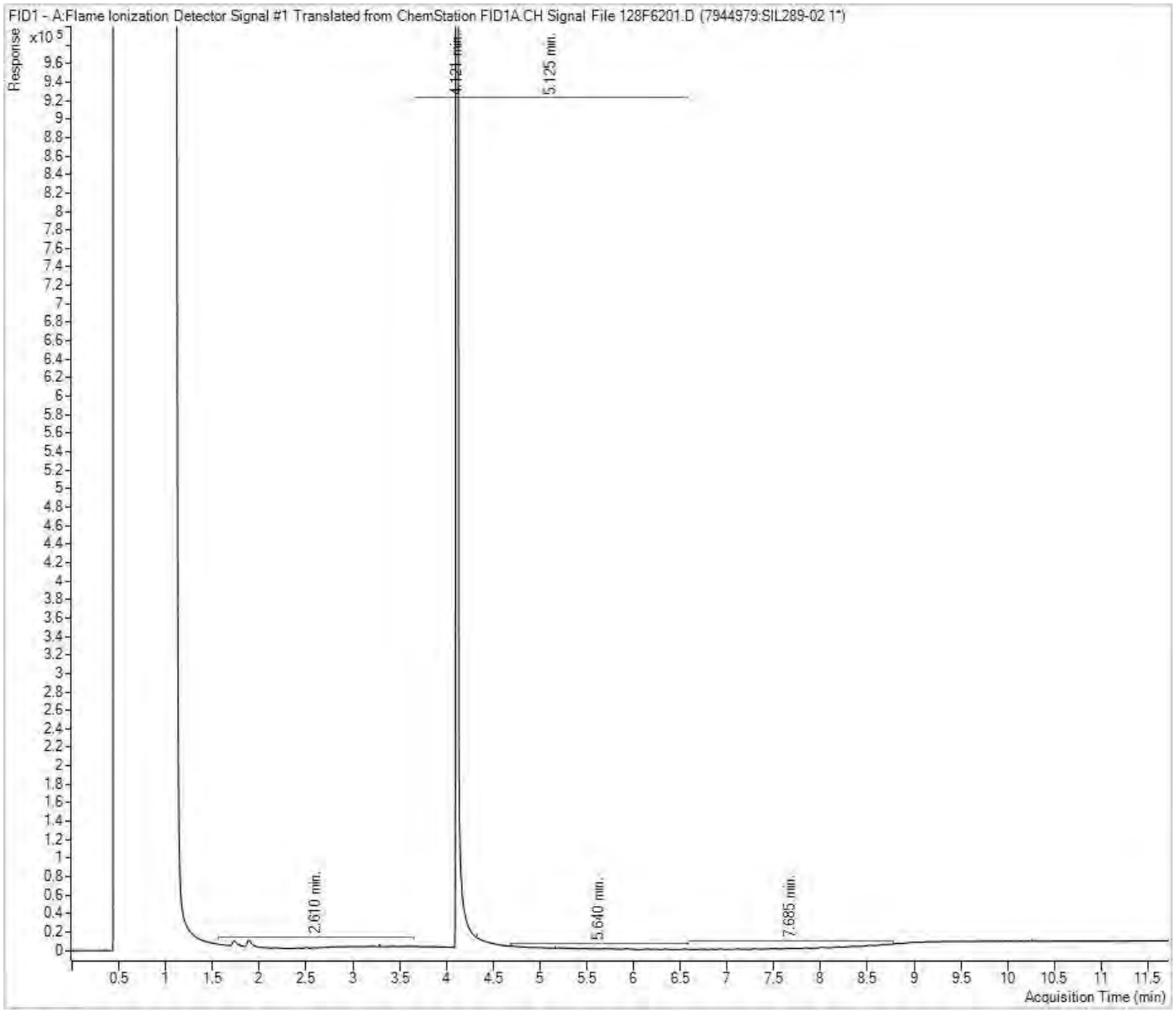


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17
Bureau Veritas Sample: SIL289

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH235-2B

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

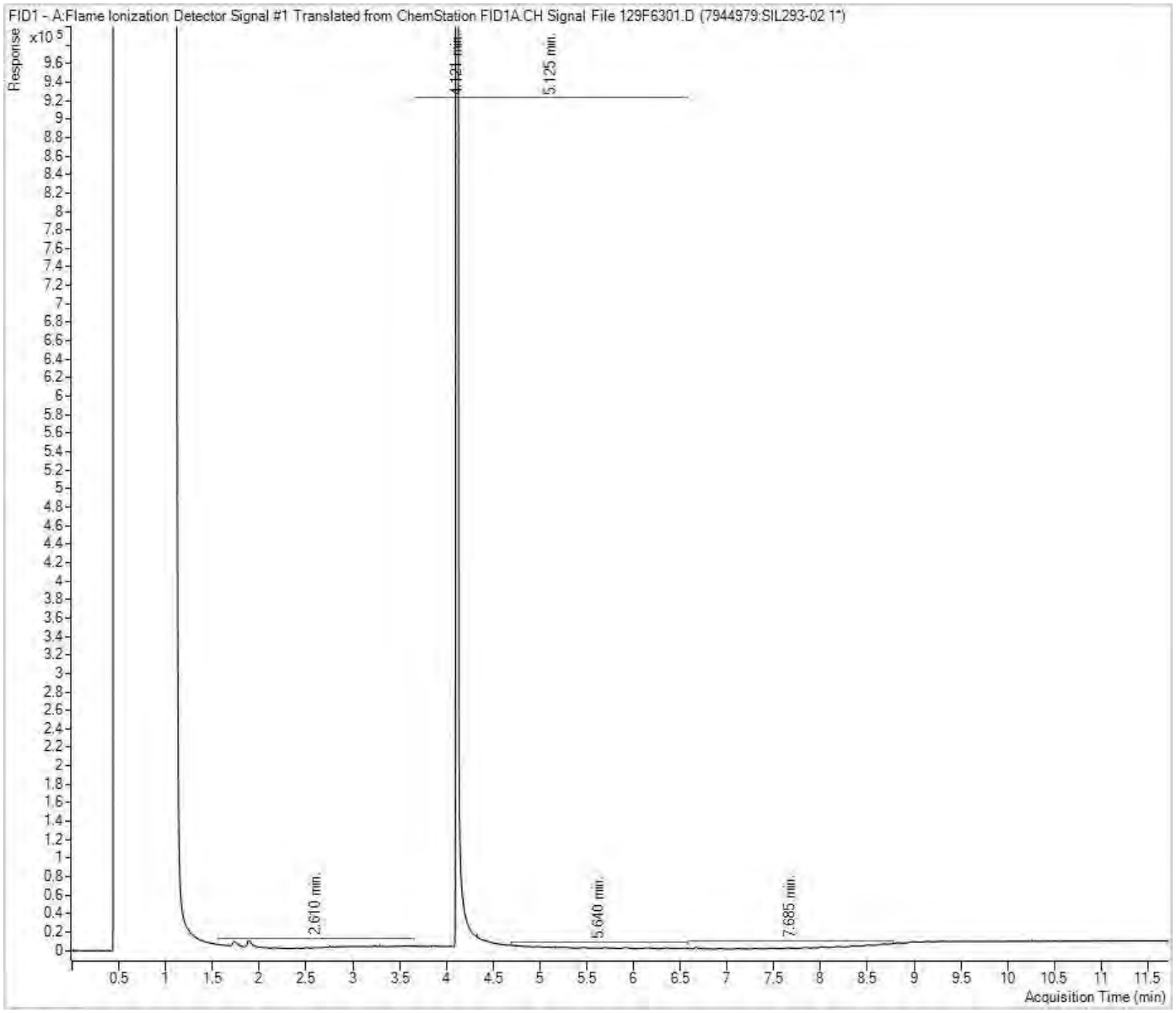


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296127
Report Date: 2022/05/17
Bureau Veritas Sample: SIL293

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 1-BH236-1A

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.

Your Project #: CT3243.01
Your C.O.C. #: 878681-02-01, 878681-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/06/02
Report #: R7148379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0276
Received: 2022/05/24, 16:10

Sample Matrix: Ground Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/05/28	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	6	N/A	2022/05/27		EPA 8260C m
Chloride by Automated Colourimetry	6	N/A	2022/05/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	6	N/A	2022/05/27	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	6	N/A	2022/05/26	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2022/05/27	2022/05/27	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2022/05/27	2022/05/28	CAM SOP-00316	CCME PHC-CWS m
Mercury	6	2022/05/30	2022/05/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	6	N/A	2022/05/26	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	6	2022/05/27	2022/05/28	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	6	N/A	2022/05/26	CAM SOP-00230	EPA 8260C m

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	5	2022/05/27	2022/05/31	CAM SOP-00447	EPA 6020B m

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.

Your Project #: CT3243.01
Your C.O.C. #: 878681-02-01, 878681-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/06/02
Report #: R7148379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0276
Received: 2022/05/24, 16:10

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.

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) 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SRX173	SRX174	SRX175	SRX176	SRX176		
Sampling Date		2022/05/18 06:45	2022/05/18 06:45	2022/05/18 06:55	2022/05/18 07:05	2022/05/18 07:05		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	1-BH209A-1	1-BH9009A-1	1-BH209B-1	1-BH209C-1	1-BH209C-1 Lab-Dup	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	0.20	0.20	<0.20	<0.20	0.26	0.20	8018430
Acid Extractable Arsenic (As)	ug/g	5.3	5.8	5.3	5.2	5.2	1.0	8018430
Acid Extractable Barium (Ba)	ug/g	100	110	120	120	110	0.50	8018430
Acid Extractable Beryllium (Be)	ug/g	0.83	0.79	0.91	0.92	0.92	0.20	8018430
Acid Extractable Boron (B)	ug/g	10	9.3	9.8	9.9	9.6	5.0	8018430
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	0.10	<0.10	0.10	8018430
Acid Extractable Chromium (Cr)	ug/g	26	26	27	27	28	1.0	8018430
Acid Extractable Cobalt (Co)	ug/g	14	14	15	14	14	0.10	8018430
Acid Extractable Copper (Cu)	ug/g	27	26	24	25	25	0.50	8018430
Acid Extractable Lead (Pb)	ug/g	9.4	9.3	10	10	10	1.0	8018430
Acid Extractable Molybdenum (Mo)	ug/g	0.66	0.62	0.71	0.61	0.61	0.50	8018430
Acid Extractable Nickel (Ni)	ug/g	30	30	32	33	32	0.50	8018430
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8018430
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8018430
Acid Extractable Thallium (Tl)	ug/g	0.15	0.14	0.15	0.16	0.15	0.050	8018430
Acid Extractable Uranium (U)	ug/g	0.95	0.86	0.85	0.78	0.75	0.050	8018430
Acid Extractable Vanadium (V)	ug/g	34	34	36	37	37	5.0	8018430
Acid Extractable Zinc (Zn)	ug/g	65	66	65	70	68	5.0	8018430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SRX177		
Sampling Date		2022/05/18 07:15		
COC Number		878681-01-01		
	UNITS	1-BH209D-1	RDL	QC Batch
Metals				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8018430
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	8018430
Acid Extractable Barium (Ba)	ug/g	140	0.50	8018430
Acid Extractable Beryllium (Be)	ug/g	1.0	0.20	8018430
Acid Extractable Boron (B)	ug/g	11	5.0	8018430
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	8018430
Acid Extractable Chromium (Cr)	ug/g	30	1.0	8018430
Acid Extractable Cobalt (Co)	ug/g	16	0.10	8018430
Acid Extractable Copper (Cu)	ug/g	25	0.50	8018430
Acid Extractable Lead (Pb)	ug/g	11	1.0	8018430
Acid Extractable Molybdenum (Mo)	ug/g	0.58	0.50	8018430
Acid Extractable Nickel (Ni)	ug/g	35	0.50	8018430
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8018430
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8018430
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	8018430
Acid Extractable Uranium (U)	ug/g	0.87	0.050	8018430
Acid Extractable Vanadium (V)	ug/g	40	5.0	8018430
Acid Extractable Zinc (Zn)	ug/g	68	5.0	8018430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX167			SRX167			SRX168		
Sampling Date		2022/05/18 14:48			2022/05/18 14:48			2022/05/18 15:30		
COC Number		878681-02-01			878681-02-01			878681-02-01		
	UNITS	1-MW 206	RDL	QC Batch	1-MW 206 Lab-Dup	RDL	QC Batch	1-MW 207	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376				<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	67	1.0	8015009				780	8.0	8013758
Metals										
Chromium (VI)	ug/L	<0.50	0.50	8013913	<0.50	0.50	8013913	<1.0	1.0	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899				<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8015411				<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L	9.5	1.0	8015411				<1.0	1.0	8015411
Dissolved Barium (Ba)	ug/L	170	2.0	8015411				29	2.0	8015411
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8015411				<0.40	0.40	8015411
Dissolved Boron (B)	ug/L	83	10	8015411				530	10	8015411
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8015411				<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8015411				<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L	11	0.50	8015411				4.1	0.50	8015411
Dissolved Copper (Cu)	ug/L	18	0.90	8015411				1.3	0.90	8015411
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8015411				<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L	0.79	0.50	8015411				6.0	0.50	8015411
Dissolved Nickel (Ni)	ug/L	17	1.0	8015411				8.7	1.0	8015411
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8015411				<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8015411				<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L	54000	100	8015411				580000	100	8015411
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8015411				0.055	0.050	8015411
Dissolved Uranium (U)	ug/L	1.2	0.10	8015411				20	0.10	8015411
Dissolved Vanadium (V)	ug/L	2.3	0.50	8015411				<0.50	0.50	8015411
Dissolved Zinc (Zn)	ug/L	9.6	5.0	8015411				<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX169			SRX170			SRX171		
Sampling Date		2022/05/18 15:30			2022/05/18 16:21			2022/05/18 15:30		
COC Number		878681-02-01			878681-02-01			878681-02-01		
	UNITS	MW 2000	RDL	QC Batch	1-MW 208	RDL	QC Batch	MW 02	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376	<1	1	8015376	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	770	8.0	8015009	450	5.0	8013758	1200	15	8015009
Metals										
Chromium (VI)	ug/L	<1.0	1.0	8013913	<0.50	0.50	8013913	<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8015411	1.2	1.0	8015411	3.1	1.0	8015411
Dissolved Barium (Ba)	ug/L	31	2.0	8015411	47	2.0	8015411	16	2.0	8015411
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8015411	<0.40	0.40	8015411	<0.40	0.40	8015411
Dissolved Boron (B)	ug/L	560	10	8015411	390	10	8015411	570	10	8015411
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8015411	<0.090	0.090	8015411	<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8015411	<5.0	5.0	8015411	<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L	4.1	0.50	8015411	1.2	0.50	8015411	2.7	0.50	8015411
Dissolved Copper (Cu)	ug/L	1.1	0.90	8015411	<0.90	0.90	8015411	<0.90	0.90	8015411
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L	6.1	0.50	8015411	11	0.50	8015411	2.0	0.50	8015411
Dissolved Nickel (Ni)	ug/L	8.7	1.0	8015411	2.9	1.0	8015411	3.3	1.0	8015411
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8015411	<2.0	2.0	8015411	<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8015411	<0.090	0.090	8015411	<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L	580000	100	8015411	350000	100	8015411	790000	500	8015411
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8015411	<0.050	0.050	8015411	<0.050	0.050	8015411
Dissolved Uranium (U)	ug/L	20	0.10	8015411	7.2	0.10	8015411	31	0.10	8015411
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	0.65	0.50	8015411
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8015411	<5.0	5.0	8015411	<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX171			SRX172		
Sampling Date		2022/05/18 15:30			2022/05/18 14:46		
COC Number		878681-02-01			878681-02-01		
	UNITS	MW 02 Lab-Dup	RDL	QC Batch	MW 03	RDL	QC Batch
Inorganics							
WAD Cyanide (Free)	ug/L				<1	1	8015376
Dissolved Chloride (Cl-)	mg/L				34	1.0	8015009
Metals							
Chromium (VI)	ug/L				<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L				<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L				1.7	1.0	8015411
Dissolved Barium (Ba)	ug/L				26	2.0	8015411
Dissolved Beryllium (Be)	ug/L				<0.40	0.40	8015411
Dissolved Boron (B)	ug/L				200	10	8015411
Dissolved Cadmium (Cd)	ug/L				<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L				<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L				<0.50	0.50	8015411
Dissolved Copper (Cu)	ug/L				1.9	0.90	8015411
Dissolved Lead (Pb)	ug/L				<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L				4.1	0.50	8015411
Dissolved Nickel (Ni)	ug/L				1.9	1.0	8015411
Dissolved Selenium (Se)	ug/L				<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L				<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L				130000	100	8015411
Dissolved Thallium (Tl)	ug/L				<0.050	0.050	8015411
Dissolved Uranium (U)	ug/L				8.0	0.10	8015411
Dissolved Vanadium (V)	ug/L				0.62	0.50	8015411
Dissolved Zinc (Zn)	ug/L				<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	8012858			
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Acenaphthylene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	8018529	<0.0090	0.0090	8018529
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Chrysene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Fluorene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Naphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Phenanthrene	ug/L	<0.030	<0.030	0.030	8018529	<0.030	0.030	8018529
Pyrene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Surrogate Recovery (%)								
D10-Anthracene	%	109	98		8018529	99		8018529
D14-Terphenyl (FS)	%	96	92		8018529	95		8018529
D8-Acenaphthylene	%	101	91		8018529	94		8018529

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	0.071	8012858
Polyaromatic Hydrocarbons							
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	8018529
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	0.030	8018529
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Surrogate Recovery (%)							
D10-Anthracene	%	103	97	100	101		8018529
D14-Terphenyl (FS)	%	100	92	92	95		8018529
D8-Acenaphthylene	%	97	92	94	94		8018529

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	8012859			
Volatile Organics								
Acetone (2-Propanone)	ug/L	56	<10	10	8013490			
Benzene	ug/L	<0.17	<0.17	0.17	8013490			
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	8013490			
Bromoform	ug/L	<1.0	<1.0	1.0	8013490			
Bromomethane	ug/L	<0.50	<0.50	0.50	8013490			
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	8013490			
Chlorobenzene	ug/L	<0.20	<0.20	0.20	8013490			
Chloroform	ug/L	<0.20	<0.20	0.20	8013490			
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	8013490			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	8013490			
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	8013490			
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	8013490			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8013490			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8013490			
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	8013490			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	8013490			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	8013490			
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8013490			
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	8013490			
Hexane	ug/L	<1.0	<1.0	1.0	8013490			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	8013490			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	8013490			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	8013490			
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	8013490			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Styrene	ug/L	<0.50	<0.50	0.50	8013490			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8013490			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8013490			
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
Toluene	ug/L	<0.20	<0.20	0.20	8013490			
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	8013490			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	8013490			
Trichloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	8013490			
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	8013490			
p+m-Xylene	ug/L	<0.20	<0.20	0.20	8013490			
o-Xylene	ug/L	<0.20	<0.20	0.20	8013490			
Total Xylenes	ug/L	<0.20	<0.20	0.20	8013490			
F1 (C6-C10)	ug/L	<25	<25	25	8013490			
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	8013490			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	8018549	<100	100	8018549
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	8018549	<200	200	8018549
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8018549	<200	200	8018549
Reached Baseline at C50	ug/L	Yes	Yes		8018549	Yes		8018549
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	83	86		8013490			
D4-1,2-Dichloroethane	%	116	116		8013490			
D8-Toluene	%	95	95		8013490			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8012859
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	8013490
Benzene	ug/L	<0.17	<0.17	<0.17	<0.17	0.17	8013490
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	8013490
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	8013490
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	8013490
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	8013490
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	8013490
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	8013490
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	8013490
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	8018549
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8018549
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8018549
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		8018549
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	85	86	86	85		8013490
D4-1,2-Dichloroethane	%	116	113	114	116		8013490
D8-Toluene	%	95	96	95	94		8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SRX167 **Collected:** 2022/05/18
Sample ID: 1-MW 206 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX167 Dup **Collected:** 2022/05/18
Sample ID: 1-MW 206 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck

Bureau Veritas ID: SRX168 **Collected:** 2022/05/18
Sample ID: 1-MW 207 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX168 Dup **Collected:** 2022/05/18
Sample ID: 1-MW 207 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon

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TEST SUMMARY

Bureau Veritas ID: SRX169 **Collected:** 2022/05/18
Sample ID: MW 2000 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX170 **Collected:** 2022/05/18
Sample ID: 1-MW 208 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX171 **Collected:** 2022/05/18
Sample ID: MW 02 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/28	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

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TEST SUMMARY

Bureau Veritas ID: SRX171 Dup
Sample ID: MW 02
Matrix: Ground Water
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur

Bureau Veritas ID: SRX172
Sample ID: MW 03
Matrix: Ground Water
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/28	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX173
Sample ID: 1-BH209A-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX174
Sample ID: 1-BH9009A-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX175
Sample ID: 1-BH209B-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX176
Sample ID: 1-BH209C-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

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TEST SUMMARY

Bureau Veritas ID: SRX176 Dup
Sample ID: 1-BH209C-1
Matrix: Soil

Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX177
Sample ID: 1-BH209D-1
Matrix: Soil

Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

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GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	7.0°C
Package 3	8.0°C

Sample SRX168 [1-MW 207] : Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample SRX169 [MW 2000] : Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	4-Bromofluorobenzene	2022/05/26	93	70 - 130	92	70 - 130	87	%		
8013490	D4-1,2-Dichloroethane	2022/05/26	111	70 - 130	111	70 - 130	110	%		
8013490	D8-Toluene	2022/05/26	105	70 - 130	105	70 - 130	97	%		
8018529	D10-Anthracene	2022/05/28	101	50 - 130	102	50 - 130	103	%		
8018529	D14-Terphenyl (FS)	2022/05/28	97	50 - 130	95	50 - 130	97	%		
8018529	D8-Acenaphthylene	2022/05/28	95	50 - 130	94	50 - 130	95	%		
8013490	1,1,1,2-Tetrachloroethane	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,1,1-Trichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1,2,2-Tetrachloroethane	2022/05/26	103	70 - 130	94	70 - 130	<0.50	ug/L		
8013490	1,1,2-Trichloroethane	2022/05/26	110	70 - 130	101	70 - 130	<0.50	ug/L		
8013490	1,1-Dichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1-Dichloroethylene	2022/05/26	93	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,2-Dichlorobenzene	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloroethane	2022/05/26	97	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloropropane	2022/05/26	95	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,3-Dichlorobenzene	2022/05/26	94	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	1,4-Dichlorobenzene	2022/05/26	108	70 - 130	102	70 - 130	<0.50	ug/L		
8013490	Acetone (2-Propanone)	2022/05/26	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
8013490	Benzene	2022/05/26	89	70 - 130	85	70 - 130	<0.17	ug/L	NC	30
8013490	Bromodichloromethane	2022/05/26	98	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	Bromoform	2022/05/26	93	70 - 130	85	70 - 130	<1.0	ug/L		
8013490	Bromomethane	2022/05/26	92	60 - 140	88	60 - 140	<0.50	ug/L		
8013490	Carbon Tetrachloride	2022/05/26	91	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chlorobenzene	2022/05/26	95	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chloroform	2022/05/26	97	70 - 130	92	70 - 130	<0.20	ug/L	2.0	30
8013490	cis-1,2-Dichloroethylene	2022/05/26	94	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	cis-1,3-Dichloropropene	2022/05/26	82	70 - 130	75	70 - 130	<0.30	ug/L		
8013490	Dibromochloromethane	2022/05/26	96	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	Dichlorodifluoromethane (FREON 12)	2022/05/26	55 (1)	60 - 140	57 (1)	60 - 140	<1.0	ug/L		
8013490	Ethylbenzene	2022/05/26	84	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
8013490	Ethylene Dibromide	2022/05/26	97	70 - 130	88	70 - 130	<0.20	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	F1 (C6-C10) - BTEX	2022/05/26					<25	ug/L	NC	30
8013490	F1 (C6-C10)	2022/05/26	85	60 - 140	92	60 - 140	<25	ug/L	NC	30
8013490	Hexane	2022/05/26	91	70 - 130	91	70 - 130	<1.0	ug/L		
8013490	Methyl Ethyl Ketone (2-Butanone)	2022/05/26	106	60 - 140	98	60 - 140	<10	ug/L		
8013490	Methyl Isobutyl Ketone	2022/05/26	90	70 - 130	84	70 - 130	<5.0	ug/L		
8013490	Methyl t-butyl ether (MTBE)	2022/05/26	80	70 - 130	76	70 - 130	<0.50	ug/L		
8013490	Methylene Chloride(Dichloromethane)	2022/05/26	103	70 - 130	99	70 - 130	<2.0	ug/L		
8013490	o-Xylene	2022/05/26	86	70 - 130	80	70 - 130	<0.20	ug/L	NC	30
8013490	p+m-Xylene	2022/05/26	88	70 - 130	81	70 - 130	<0.20	ug/L	NC	30
8013490	Styrene	2022/05/26	92	70 - 130	85	70 - 130	<0.50	ug/L		
8013490	Tetrachloroethylene	2022/05/26	91	70 - 130	86	70 - 130	<0.20	ug/L		
8013490	Toluene	2022/05/26	88	70 - 130	83	70 - 130	<0.20	ug/L	NC	30
8013490	Total Xylenes	2022/05/26					<0.20	ug/L	NC	30
8013490	trans-1,2-Dichloroethylene	2022/05/26	96	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	trans-1,3-Dichloropropene	2022/05/26	95	70 - 130	84	70 - 130	<0.40	ug/L		
8013490	Trichloroethylene	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	Trichlorofluoromethane (FREON 11)	2022/05/26	93	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	Vinyl Chloride	2022/05/26	86	70 - 130	85	70 - 130	<0.20	ug/L		
8013758	Dissolved Chloride (Cl-)	2022/05/26	105	80 - 120	105	80 - 120	<1.0	mg/L	0.20	20
8013913	Chromium (VI)	2022/05/27	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8015009	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.5	20
8015376	WAD Cyanide (Free)	2022/05/26	63 (2)	80 - 120	96	80 - 120	<1	ug/L	NC	20
8015411	Dissolved Antimony (Sb)	2022/05/26	108	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8015411	Dissolved Arsenic (As)	2022/05/26	105	80 - 120	101	80 - 120	<1.0	ug/L	4.3	20
8015411	Dissolved Barium (Ba)	2022/05/26	107	80 - 120	100	80 - 120	<2.0	ug/L	0.76	20
8015411	Dissolved Beryllium (Be)	2022/05/26	113	80 - 120	105	80 - 120	<0.40	ug/L	NC	20
8015411	Dissolved Boron (B)	2022/05/26	113	80 - 120	106	80 - 120	<10	ug/L	5.2	20
8015411	Dissolved Cadmium (Cd)	2022/05/26	105	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Chromium (Cr)	2022/05/26	104	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
8015411	Dissolved Cobalt (Co)	2022/05/26	106	80 - 120	101	80 - 120	<0.50	ug/L	2.7	20
8015411	Dissolved Copper (Cu)	2022/05/26	111	80 - 120	99	80 - 120	<0.90	ug/L	1.2	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015411	Dissolved Lead (Pb)	2022/05/26	98	80 - 120	99	80 - 120	<0.50	ug/L	0.59	20
8015411	Dissolved Molybdenum (Mo)	2022/05/26	114	80 - 120	100	80 - 120	<0.50	ug/L	0.92	20
8015411	Dissolved Nickel (Ni)	2022/05/26	100	80 - 120	99	80 - 120	<1.0	ug/L	3.2	20
8015411	Dissolved Selenium (Se)	2022/05/26	102	80 - 120	104	80 - 120	<2.0	ug/L	4.5	20
8015411	Dissolved Silver (Ag)	2022/05/26	83	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Sodium (Na)	2022/05/26	90	80 - 120	104	80 - 120	<100	ug/L	0.18	20
8015411	Dissolved Thallium (Tl)	2022/05/26	102	80 - 120	104	80 - 120	<0.050	ug/L	NC	20
8015411	Dissolved Uranium (U)	2022/05/26	108	80 - 120	103	80 - 120	<0.10	ug/L	1.1	20
8015411	Dissolved Vanadium (V)	2022/05/26	110	80 - 120	101	80 - 120	<0.50	ug/L	12	20
8015411	Dissolved Zinc (Zn)	2022/05/26	99	80 - 120	100	80 - 120	<5.0	ug/L	1.0	20
8018430	Acid Extractable Antimony (Sb)	2022/05/31	100	75 - 125	105	80 - 120	<0.20	ug/g	24	30
8018430	Acid Extractable Arsenic (As)	2022/05/31	103	75 - 125	99	80 - 120	<1.0	ug/g	0.99	30
8018430	Acid Extractable Barium (Ba)	2022/05/31	NC	75 - 125	102	80 - 120	<0.50	ug/g	2.1	30
8018430	Acid Extractable Beryllium (Be)	2022/05/31	110	75 - 125	103	80 - 120	<0.20	ug/g	0.21	30
8018430	Acid Extractable Boron (B)	2022/05/31	104	75 - 125	101	80 - 120	<5.0	ug/g	2.7	30
8018430	Acid Extractable Cadmium (Cd)	2022/05/31	110	75 - 125	101	80 - 120	<0.10	ug/g	3.8	30
8018430	Acid Extractable Chromium (Cr)	2022/05/31	NC	75 - 125	103	80 - 120	<1.0	ug/g	1.7	30
8018430	Acid Extractable Cobalt (Co)	2022/05/31	108	75 - 125	102	80 - 120	<0.10	ug/g	1.1	30
8018430	Acid Extractable Copper (Cu)	2022/05/31	NC	75 - 125	105	80 - 120	<0.50	ug/g	0.87	30
8018430	Acid Extractable Lead (Pb)	2022/05/31	108	75 - 125	103	80 - 120	<1.0	ug/g	2.5	30
8018430	Acid Extractable Molybdenum (Mo)	2022/05/31	109	75 - 125	102	80 - 120	<0.50	ug/g	0.27	30
8018430	Acid Extractable Nickel (Ni)	2022/05/31	NC	75 - 125	104	80 - 120	<0.50	ug/g	2.8	30
8018430	Acid Extractable Selenium (Se)	2022/05/31	103	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
8018430	Acid Extractable Silver (Ag)	2022/05/31	104	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
8018430	Acid Extractable Thallium (Tl)	2022/05/31	108	75 - 125	106	80 - 120	<0.050	ug/g	8.4	30
8018430	Acid Extractable Uranium (U)	2022/05/31	106	75 - 125	102	80 - 120	<0.050	ug/g	4.5	30
8018430	Acid Extractable Vanadium (V)	2022/05/31	NC	75 - 125	102	80 - 120	<5.0	ug/g	2.3	30
8018430	Acid Extractable Zinc (Zn)	2022/05/31	NC	75 - 125	97	80 - 120	<5.0	ug/g	2.7	30
8018529	1-Methylnaphthalene	2022/05/28	104	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
8018529	2-Methylnaphthalene	2022/05/28	101	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8018529	Acenaphthene	2022/05/28	98	50 - 130	96	50 - 130	<0.050	ug/L	NC	30

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8018529	Acenaphthylene	2022/05/28	95	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8018529	Anthracene	2022/05/28	99	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(a)anthracene	2022/05/28	105	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(a)pyrene	2022/05/28	90	50 - 130	89	50 - 130	<0.0090	ug/L	NC	30
8018529	Benzo(b/j)fluoranthene	2022/05/28	98	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(g,h,i)perylene	2022/05/28	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(k)fluoranthene	2022/05/28	102	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Chrysene	2022/05/28	102	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8018529	Dibenzo(a,h)anthracene	2022/05/28	97	50 - 130	95	50 - 130	<0.050	ug/L	NC	30
8018529	Fluoranthene	2022/05/28	106	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8018529	Fluorene	2022/05/28	100	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Indeno(1,2,3-cd)pyrene	2022/05/28	106	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8018529	Naphthalene	2022/05/28	95	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8018529	Phenanthrene	2022/05/28	101	50 - 130	101	50 - 130	<0.030	ug/L	NC	30
8018529	Pyrene	2022/05/28	106	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8018549	F2 (C10-C16 Hydrocarbons)	2022/05/27	95	60 - 130	99	60 - 130	<100	ug/L	NC	30
8018549	F3 (C16-C34 Hydrocarbons)	2022/05/27	102	60 - 130	111	60 - 130	<200	ug/L	NC	30
8018549	F4 (C34-C50 Hydrocarbons)	2022/05/27	99	60 - 130	104	60 - 130	<200	ug/L	NC	30
8021899	Mercury (Hg)	2022/05/30	93	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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

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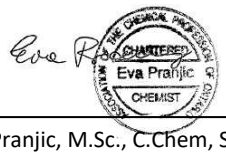
VALIDATION SIGNATURE PAGE

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



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 Signature Page.

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CHAIN

Page 1 of 2

24-May-22 16:10
Kudrat Bajwa
C2E0276
TPS ENV-895
C#878681-02-01
Kudrat Bajwa

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex	Quotation #:	C20955
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:	
Address:	90 Scarsdale Rd	Address:	90 Scarsdale Rd	Project:	CT3243.01
	Toronto ON M3B 2R7		Toronto ON M3B 2A7	Project Name:	
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	JF, AS, AP

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): ☐ Table 1 ☑ Res/Park ☑ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☑ For RSC ☑ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? N

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): ~~Metals / Hg / Cr VI~~	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 PAHs	O.Reg 153 Metals & Inorganics Pkg	ICPMS metals						# of Bottles	Comments
1		1-MW206	May 18 2022	14:48	GW	Y	✓	✓	✓							10	Silt PAL
2		1-MW207		15:30			✓	✓	✓							10	
3		MW2000		15:30			✓	✓	✓							10	
4		1-MW208		16:21			✓	✓	✓							10	
5		MW 02		15:30			✓	✓	✓							10	
6		MW 03		14:46			✓	✓	✓							10	
7		1-BH209A-1		06:45	S	N/A			M	✓						1	
8		1-BH9009A-1		06:45					M	✓						1	
9		1-BH209B-1		06:55					M	✓						1	
10		1-BH209C-1		07:05					M	✓						1	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only
Jesse Fortier	22/05/19	17:00	[signature]	2022/05/19	1610	0		Temperature (°C) on Recei...

Custody Seal	Yes	No
Present		
Intact		

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex	Quotation #:	C20955	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			878681
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Project:	CT3243.01	COC #:	Project Manager:
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:		C#878681-01-01	Kudrat Bajwa
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	JEASAP		

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)	Other Regulations	Special Instructions
☐ Table 1 ☑ Res/Park ☑ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☑ For RSC ☑ Table 5	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 VOCs by HS & F1-F4	O Reg 153 PAHs	ICPMS metals O Reg 153 Metals & Inorganics Plus							# of Bottles	Comments
1		1-BH209D-1	May 18 2022	07:15	S	N/A			✓							1	
2		1-BH209E-1	"	07:25	"	"			"							1	On Hold
3		1-BH209F-1	"	07:35	"	"			"							1	On Hold
4		1-BH209H-1	"	07:45	"	"			"							1	On Hold
5		1-BH209G-1	"	07:55	"	"			"							1	On Hold
6																	
7																	
8																	
9																	
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				
Jesse Fortier	22/05/19	17:00		22/05/19	1610	0	Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
									Present		
									Intact		

* 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/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.

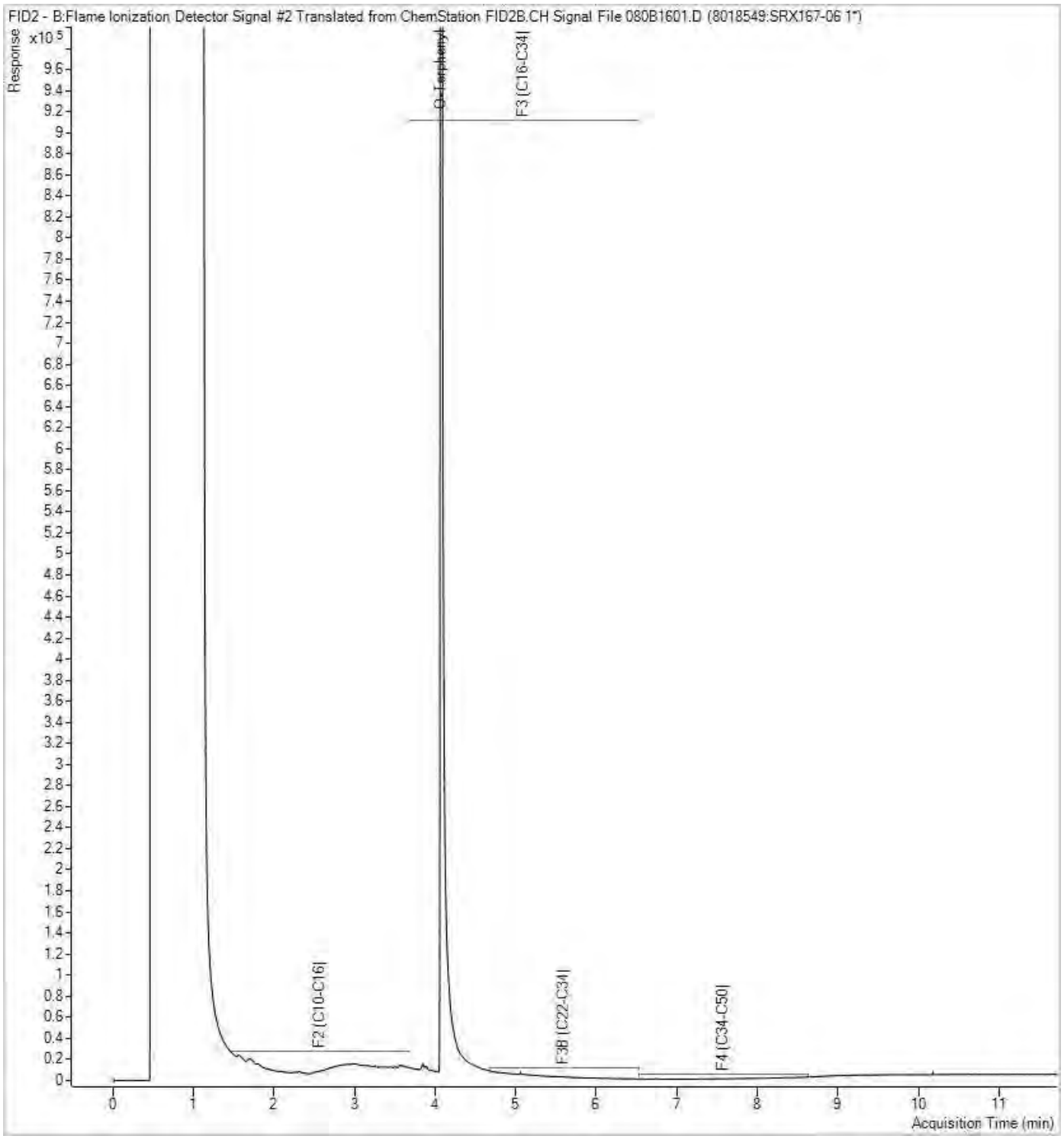
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

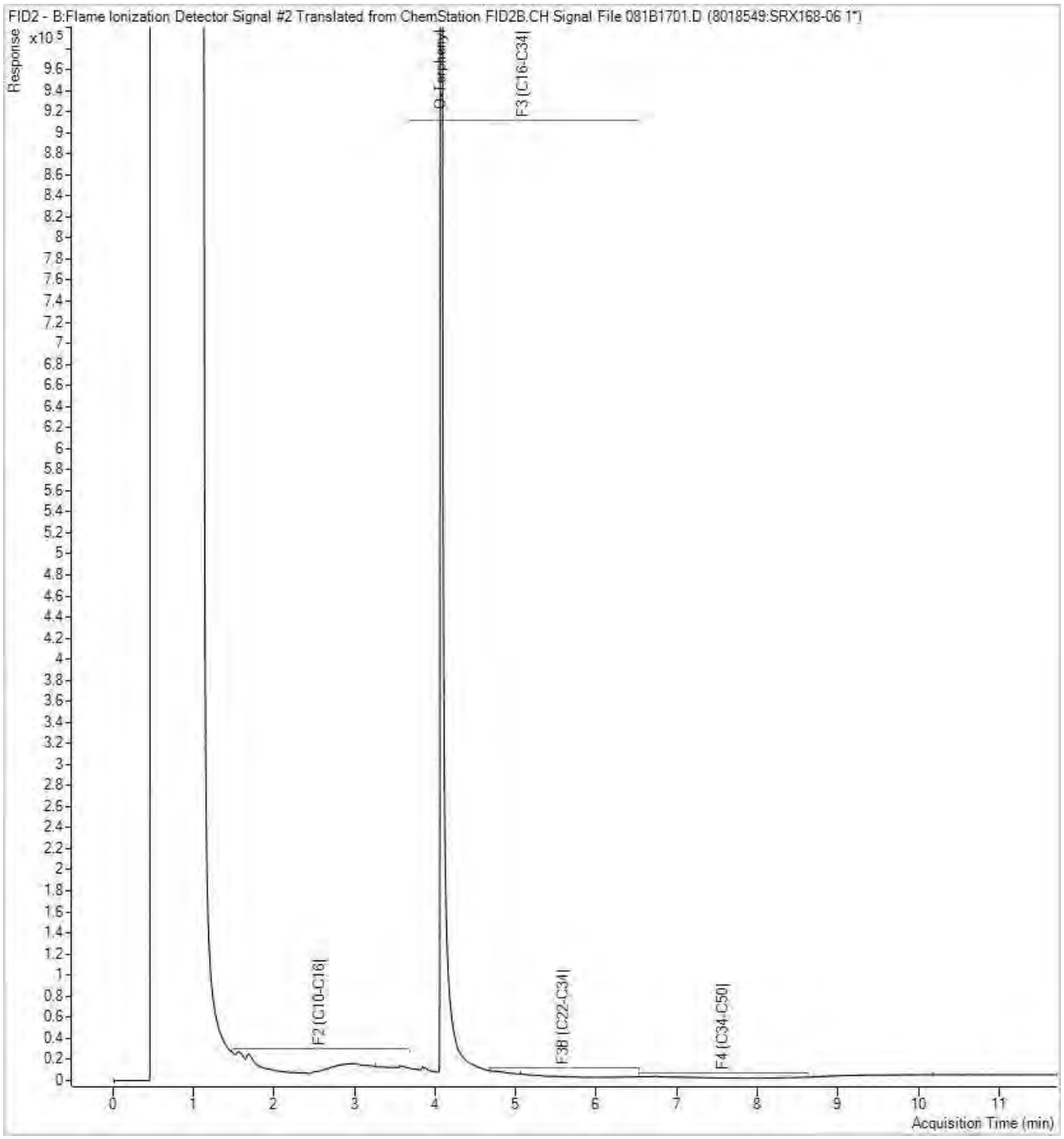
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



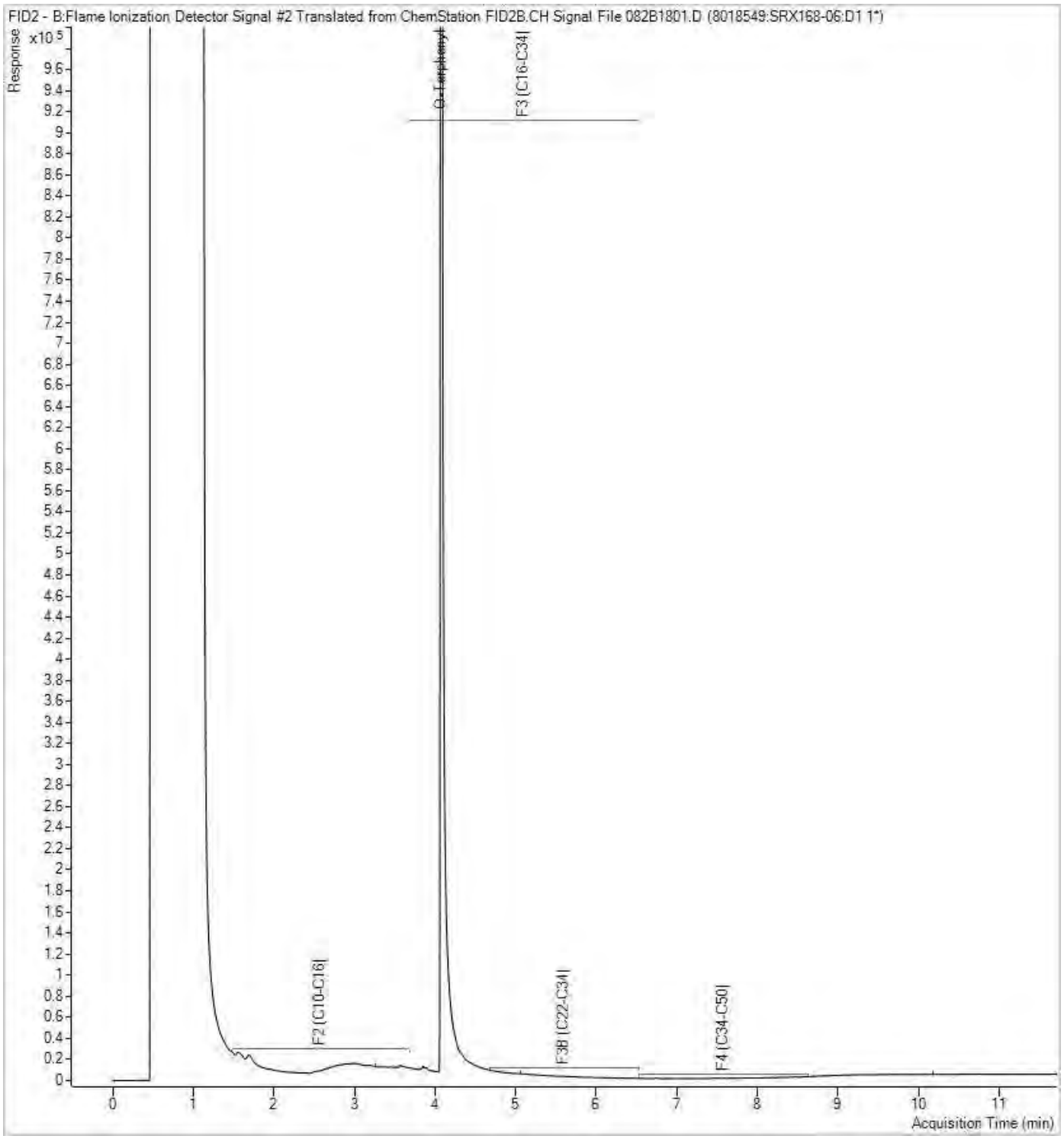
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



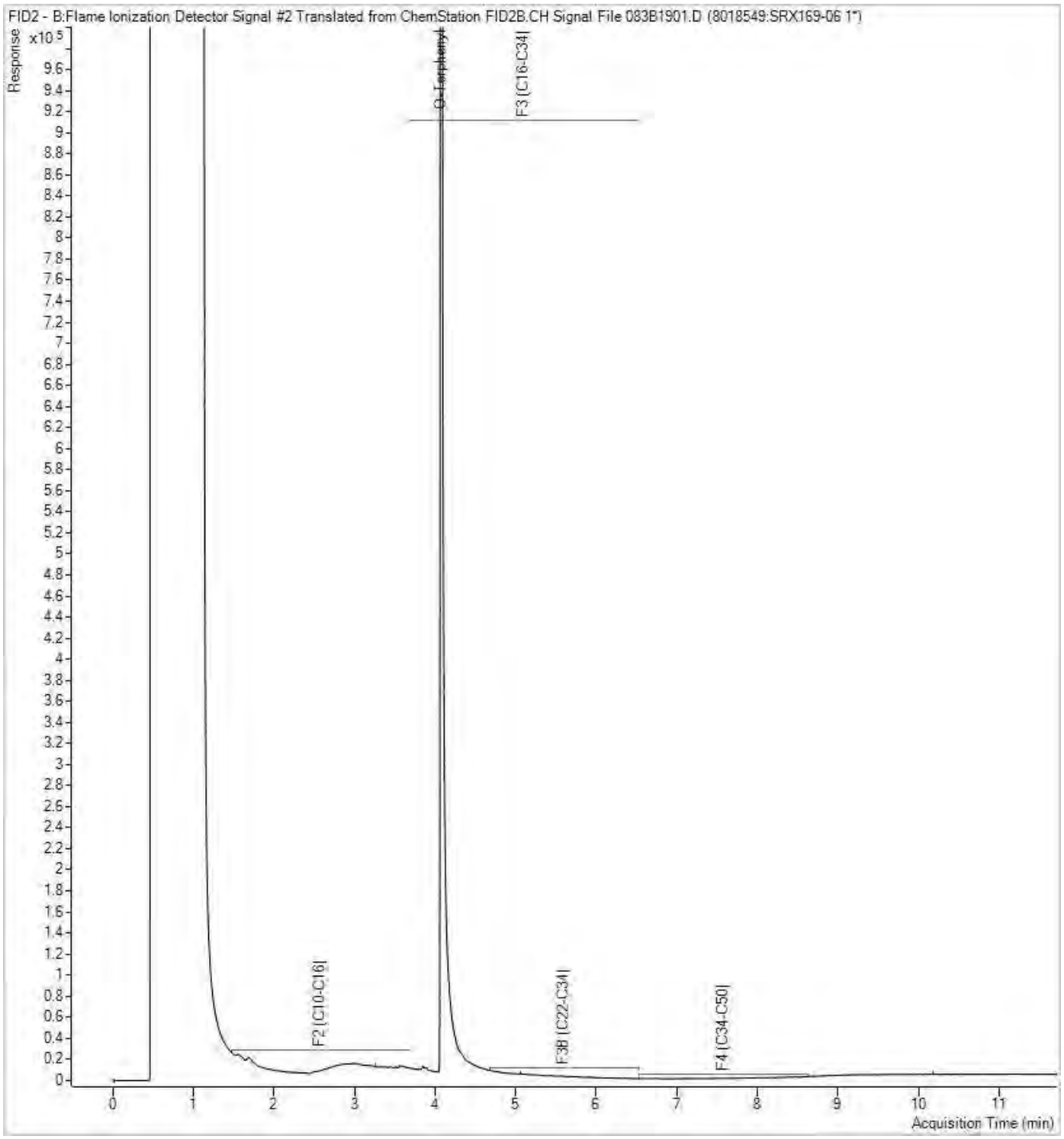
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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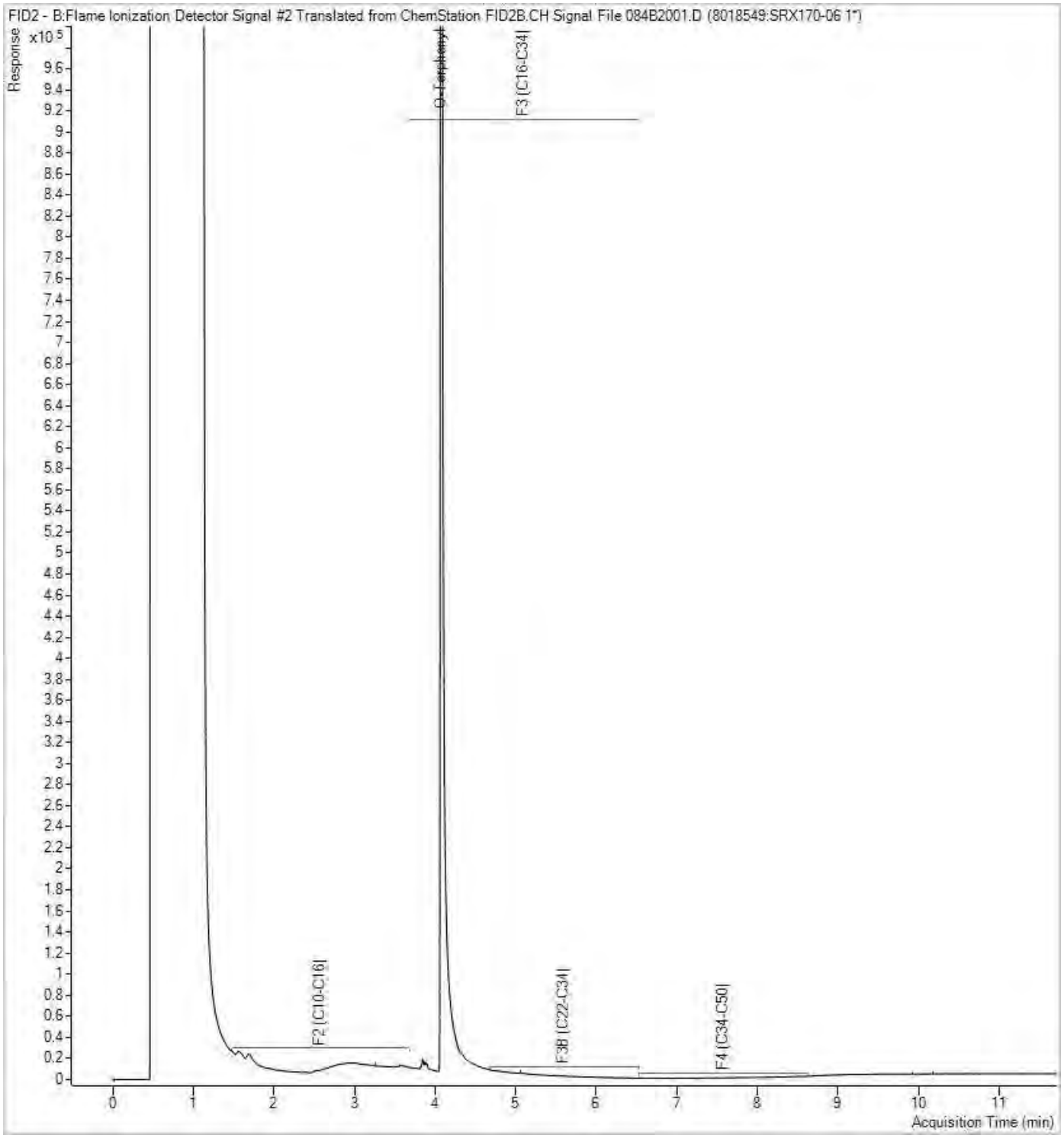
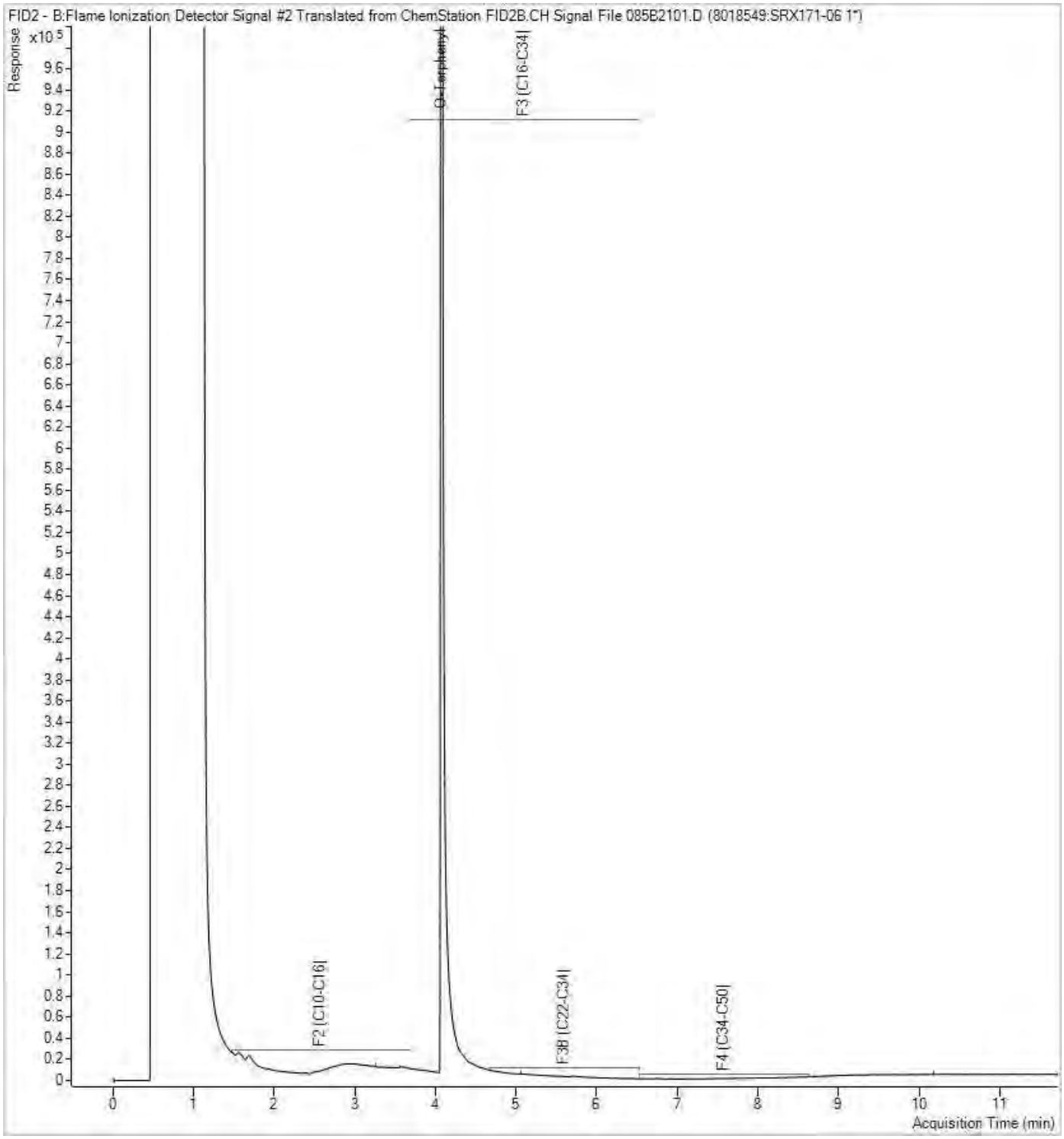
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



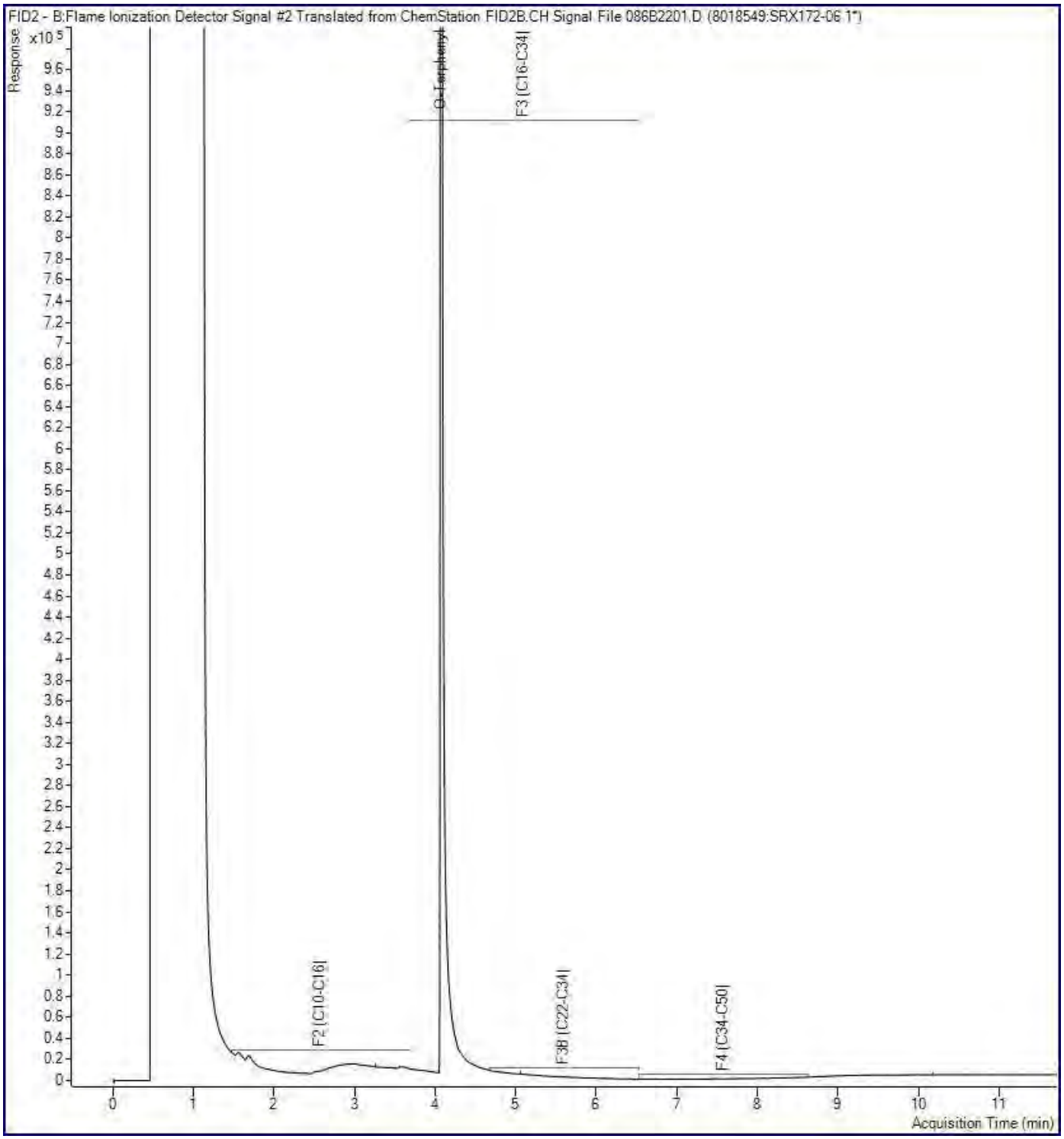
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Your C.O.C. #: 844283-07-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101402
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289710
Received: 2022/04/05, 15:28

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	2	2022/04/07	2022/04/07	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/04/08	2022/04/08	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	2	2022/04/07	2022/04/08	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/04/08	2022/04/09	CAM SOP-00457	OMOE E3015 m
Conductivity	5	2022/04/11	2022/04/11	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/07	2022/04/08	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2022/04/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	3	2022/04/06	2022/04/07	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	3	2022/04/07	2022/04/07	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2022/04/05	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	3	2022/04/11	2022/04/11	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	5	N/A	2022/04/12	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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Your C.O.C. #: 844283-07-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101402
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289710
Received: 2022/04/05, 15:28

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

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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 Signature Page.

Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA548		SHA550			SHA550		
Sampling Date		2022/03/30 10:04		2022/03/30 10:38			2022/03/30 10:38		
COC Number		844283-07-01		844283-07-01			844283-07-01		
	UNITS	2-BH211-1	QC Batch	2-BH212-1	RDL	QC Batch	2-BH212-1 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.43	7923352	0.32		7923352			
Inorganics									
Conductivity	mS/cm	0.22	7933296	0.20	0.002	7933296			
Available (CaCl2) pH	pH	7.87	7932943	7.44		7932943			
WAD Cyanide (Free)	ug/g	<0.01	7926824	<0.01	0.01	7926824			
Chromium (VI)	ug/g	<0.18	7926920	0.34	0.18	7926920			
Metals									
Hot Water Ext. Boron (B)	ug/g	0.12	7927009	0.057	0.050	7929287	0.059	0.050	7929287
Acid Extractable Antimony (Sb)	ug/g	<0.20	7927548	<0.20	0.20	7927548	<0.20	0.20	7927548
Acid Extractable Arsenic (As)	ug/g	3.6	7927548	3.1	1.0	7927548	3.0	1.0	7927548
Acid Extractable Barium (Ba)	ug/g	79	7927548	78	0.50	7927548	79	0.50	7927548
Acid Extractable Beryllium (Be)	ug/g	0.52	7927548	0.62	0.20	7927548	0.63	0.20	7927548
Acid Extractable Boron (B)	ug/g	6.6	7927548	<5.0	5.0	7927548	<5.0	5.0	7927548
Acid Extractable Cadmium (Cd)	ug/g	<0.10	7927548	<0.10	0.10	7927548	<0.10	0.10	7927548
Acid Extractable Chromium (Cr)	ug/g	15	7927548	19	1.0	7927548	18	1.0	7927548
Acid Extractable Cobalt (Co)	ug/g	9.2	7927548	10	0.10	7927548	11	0.10	7927548
Acid Extractable Copper (Cu)	ug/g	18	7927548	17	0.50	7927548	17	0.50	7927548
Acid Extractable Lead (Pb)	ug/g	6.1	7927548	7.4	1.0	7927548	7.5	1.0	7927548
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	7927548	<0.50	0.50	7927548	<0.50	0.50	7927548
Acid Extractable Nickel (Ni)	ug/g	20	7927548	20	0.50	7927548	21	0.50	7927548
Acid Extractable Selenium (Se)	ug/g	<0.50	7927548	<0.50	0.50	7927548	<0.50	0.50	7927548
Acid Extractable Silver (Ag)	ug/g	<0.20	7927548	<0.20	0.20	7927548	<0.20	0.20	7927548
Acid Extractable Thallium (Tl)	ug/g	0.10	7927548	0.080	0.050	7927548	0.078	0.050	7927548
Acid Extractable Uranium (U)	ug/g	0.56	7927548	0.49	0.050	7927548	0.47	0.050	7927548
Acid Extractable Vanadium (V)	ug/g	23	7927548	29	5.0	7927548	28	5.0	7927548
Acid Extractable Zinc (Zn)	ug/g	42	7927548	40	5.0	7927548	40	5.0	7927548
Acid Extractable Mercury (Hg)	ug/g	<0.050	7927548	<0.050	0.050	7927548	<0.050	0.050	7927548

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA551		
Sampling Date		2022/03/30 10:38		
COC Number		844283-07-01		
	UNITS	2-BH212-91	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.33		7923352
Inorganics				
Conductivity	mS/cm	0.23	0.002	7933293
Available (CaCl2) pH	pH	6.57		7932943
WAD Cyanide (Free)	ug/g	<0.01	0.01	7929410
Chromium (VI)	ug/g	0.24	0.18	7926920
Metals				
Hot Water Ext. Boron (B)	ug/g	0.067	0.050	7927009
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7927548
Acid Extractable Arsenic (As)	ug/g	4.6	1.0	7927548
Acid Extractable Barium (Ba)	ug/g	110	0.50	7927548
Acid Extractable Beryllium (Be)	ug/g	0.83	0.20	7927548
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7927548
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7927548
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7927548
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7927548
Acid Extractable Copper (Cu)	ug/g	25	0.50	7927548
Acid Extractable Lead (Pb)	ug/g	10	1.0	7927548
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7927548
Acid Extractable Nickel (Ni)	ug/g	29	0.50	7927548
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7927548
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7927548
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	7927548
Acid Extractable Uranium (U)	ug/g	0.44	0.050	7927548
Acid Extractable Vanadium (V)	ug/g	32	5.0	7927548
Acid Extractable Zinc (Zn)	ug/g	59	5.0	7927548
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7927548

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

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

Bureau Veritas ID		SHA548			SHA548			SHA550	SHA551		
Sampling Date		2022/03/30 10:04			2022/03/30 10:04			2022/03/30 10:38	2022/03/30 10:38		
COC Number		844283-07-01			844283-07-01			844283-07-01	844283-07-01		
	UNITS	2-BH211-1	RDL	QC Batch	2-BH211-1 Lab-Dup	RDL	QC Batch	2-BH212-1	2-BH212-91	RDL	QC Batch
Inorganics											
Moisture	%	20	1.0	7923725				18	19	1.0	7923725
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
Toluene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
Ethylbenzene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
o-Xylene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
p+m-Xylene	ug/g	<0.040	0.040	7924370				<0.040	<0.040	0.040	7924370
Total Xylenes	ug/g	<0.040	0.040	7924370				<0.040	<0.040	0.040	7924370
F1 (C6-C10)	ug/g	<10	10	7924370				<10	<10	10	7924370
F1 (C6-C10) - BTEX	ug/g	<10	10	7924370				<10	<10	10	7924370
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7925642	<10	10	7925642	<10	<10	10	7925642
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7925642	<50	50	7925642	<50	<50	50	7925642
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7925642	<50	50	7925642	<50	<50	50	7925642
Reached Baseline at C50	ug/g	Yes		7925642	Yes		7925642	Yes	Yes		7925642
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	110		7924370				107	105		7924370
4-Bromofluorobenzene	%	88		7924370				90	92		7924370
D10-o-Xylene	%	103		7924370				109	111		7924370
D4-1,2-Dichloroethane	%	106		7924370				106	105		7924370
o-Terphenyl	%	111		7925642	110		7925642	109	108		7925642

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHA549		SHA552		
Sampling Date		2022/03/30 10:17		2022/03/30 10:47		
COC Number		844283-07-01		844283-07-01		
	UNITS	2-BH211-4	QC Batch	2-BH212-4	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	1.4	7923352	0.48		7923352
Inorganics						
Conductivity	mS/cm	0.79	7933409	0.75	0.002	7933293
Miscellaneous Parameters						
Grain Size	%	FINE	7952276	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	96	7952276	96	1	7952276
Sieve - #200 (>0.075mm)	%	4	7952276	4	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA548
Sample ID: 2-BH211-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7927009	2022/04/07	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926824	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7933296	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA548 Dup
Sample ID: 2-BH211-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li

Bureau Veritas ID: SHA549
Sample ID: 2-BH211-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933409	2022/04/11	2022/04/11	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA550
Sample ID: 2-BH212-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7929287	2022/04/08	2022/04/08	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7926824	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7933296	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

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

Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA550 Dup
Sample ID: 2-BH212-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7929287	2022/04/08	2022/04/08	Suban Kanapathippllai
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu

Bureau Veritas ID: SHA551
Sample ID: 2-BH212-91
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7927009	2022/04/07	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7929410	2022/04/08	2022/04/09	Aditiben Patel
Conductivity	AT	7933293	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA552
Sample ID: 2-BH212-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933293	2022/04/11	2022/04/11	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 2-BH211-4 and 2-BH212-4 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924370	1,4-Difluorobenzene	2022/04/06	95	60 - 140	91	60 - 140	104	%				
7924370	4-Bromofluorobenzene	2022/04/06	99	60 - 140	104	60 - 140	96	%				
7924370	D10-o-Xylene	2022/04/06	99	60 - 140	93	60 - 140	102	%				
7924370	D4-1,2-Dichloroethane	2022/04/06	92	60 - 140	92	60 - 140	108	%				
7925642	o-Terphenyl	2022/04/07	99	60 - 130	103	60 - 130	110	%				
7923725	Moisture	2022/04/05							0	20		
7924370	Benzene	2022/04/06	93	50 - 140	86	50 - 140	<0.020	ug/g	NC	50		
7924370	Ethylbenzene	2022/04/06	112	50 - 140	103	50 - 140	<0.020	ug/g	NC	50		
7924370	F1 (C6-C10) - BTEX	2022/04/06					<10	ug/g	NC	30		
7924370	F1 (C6-C10)	2022/04/06	87	60 - 140	82	80 - 120	<10	ug/g	NC	30		
7924370	o-Xylene	2022/04/06	114	50 - 140	107	50 - 140	<0.020	ug/g	NC	50		
7924370	p+m-Xylene	2022/04/06	111	50 - 140	103	50 - 140	<0.040	ug/g	NC	50		
7924370	Toluene	2022/04/06	97	50 - 140	90	50 - 140	<0.020	ug/g	11	50		
7924370	Total Xylenes	2022/04/06					<0.040	ug/g	NC	50		
7925642	F2 (C10-C16 Hydrocarbons)	2022/04/07	112	60 - 130	119	80 - 120	<10	ug/g	NC	30		
7925642	F3 (C16-C34 Hydrocarbons)	2022/04/07	110	60 - 130	118	80 - 120	<50	ug/g	NC	30		
7925642	F4 (C34-C50 Hydrocarbons)	2022/04/07	104	60 - 130	114	80 - 120	<50	ug/g	NC	30		
7926824	WAD Cyanide (Free)	2022/04/08	77	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7926920	Chromium (VI)	2022/04/08	76	70 - 130	88	80 - 120	<0.18	ug/g	16	35		
7927009	Hot Water Ext. Boron (B)	2022/04/07	110	75 - 125	111	75 - 125	<0.050	ug/g	7.8	40		
7927548	Acid Extractable Antimony (Sb)	2022/04/07	82	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
7927548	Acid Extractable Arsenic (As)	2022/04/07	93	75 - 125	97	80 - 120	<1.0	ug/g	2.6	30		
7927548	Acid Extractable Barium (Ba)	2022/04/07	NC	75 - 125	98	80 - 120	<0.50	ug/g	2.4	30		
7927548	Acid Extractable Beryllium (Be)	2022/04/07	100	75 - 125	101	80 - 120	<0.20	ug/g	0.89	30		
7927548	Acid Extractable Boron (B)	2022/04/07	86	75 - 125	98	80 - 120	<5.0	ug/g	NC	30		
7927548	Acid Extractable Cadmium (Cd)	2022/04/07	95	75 - 125	98	80 - 120	<0.10	ug/g	NC	30		
7927548	Acid Extractable Chromium (Cr)	2022/04/07	96	75 - 125	99	80 - 120	<1.0	ug/g	4.9	30		
7927548	Acid Extractable Cobalt (Co)	2022/04/07	94	75 - 125	99	80 - 120	<0.10	ug/g	1.3	30		
7927548	Acid Extractable Copper (Cu)	2022/04/07	92	75 - 125	99	80 - 120	<0.50	ug/g	0.80	30		
7927548	Acid Extractable Lead (Pb)	2022/04/07	98	75 - 125	102	80 - 120	<1.0	ug/g	0.84	30		
7927548	Acid Extractable Mercury (Hg)	2022/04/07	81	75 - 125	92	80 - 120	<0.050	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7927548	Acid Extractable Molybdenum (Mo)	2022/04/07	96	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7927548	Acid Extractable Nickel (Ni)	2022/04/07	92	75 - 125	98	80 - 120	<0.50	ug/g	1.9	30		
7927548	Acid Extractable Selenium (Se)	2022/04/07	92	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7927548	Acid Extractable Silver (Ag)	2022/04/07	97	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7927548	Acid Extractable Thallium (Tl)	2022/04/07	100	75 - 125	105	80 - 120	<0.050	ug/g	1.7	30		
7927548	Acid Extractable Uranium (U)	2022/04/07	99	75 - 125	104	80 - 120	<0.050	ug/g	4.6	30		
7927548	Acid Extractable Vanadium (V)	2022/04/07	NC	75 - 125	97	80 - 120	<5.0	ug/g	5.0	30		
7927548	Acid Extractable Zinc (Zn)	2022/04/07	NC	75 - 125	101	80 - 120	<5.0	ug/g	0.73	30		
7929287	Hot Water Ext. Boron (B)	2022/04/08	98	75 - 125	95	75 - 125	<0.050	ug/g	2.6	40		
7929410	WAD Cyanide (Free)	2022/04/09	86	75 - 125	90	80 - 120	<0.01	ug/g	NC	35		
7932943	Available (CaCl2) pH	2022/04/11			101	97 - 103			2.0	N/A		
7933293	Conductivity	2022/04/11			100	90 - 110	<0.002	mS/cm	1.8	10		
7933296	Conductivity	2022/04/11			100	90 - 110	<0.002	mS/cm	3.1	10		
7933409	Conductivity	2022/04/11			101	90 - 110	<0.002	mS/cm	3.2	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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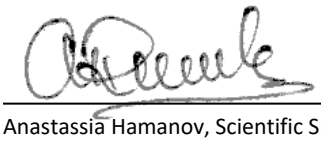
Bureau Veritas Job #: C289710
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

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

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30085 Parkland Fuel Corporation~~ Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd.~~	Quotation #: ~~B93691~~ C21481	BV Labs Job #:
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~ Roy Yu	P.O. #:	Bottle Order #: 844283
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd. ~~Calgary AB T2P 4H4~~ Toronto, ON	Address: ~~85 Nebo Road~~ ~~Hamilton ON L8W 2C9~~	Project: CT3243.01	COC #: C#844283-07-01
Tel: ~~(403) 587-2500~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 Fax:	Project Name: Grand Niagara Golf RSC2	Project Manager: Kudrat Bajwa
Email: ~~kristen.burmeister@bvlabs.com~~ Accounts.Payable@terrapex.com	Email: ~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Site #: ~~BU-26535~~	
		Sampled By: AP	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality	
☒ Table 5	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? _____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O Reg 153 PHCs, BTEX/F1-F4	Metals and Inorganics	EC/SAR	# of Bottles	Comments
1		2-BH211-1	March 30 22	10:04	S	N	X	X		3	
2		2-BH211-4		10:17					X	3	Please place 2x120mL jars ON HOLD
3		2-BH212-1		10:38			X	X		3	
4		2-BH212-91		10:38			X	X		3	
5		2-BH212-4		10:47					X	1	
6		2-BH212-3		10:49							ON HOLD
7											
8											
9											
10											

05-Apr-22 15:28
Kudrat Bajwa
C289710
URE ENV-925

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Paniak AP	22/04/04	6:30	Ray Meisami	2022/04/05	1588	0

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
	2 3 2	Intact	—	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

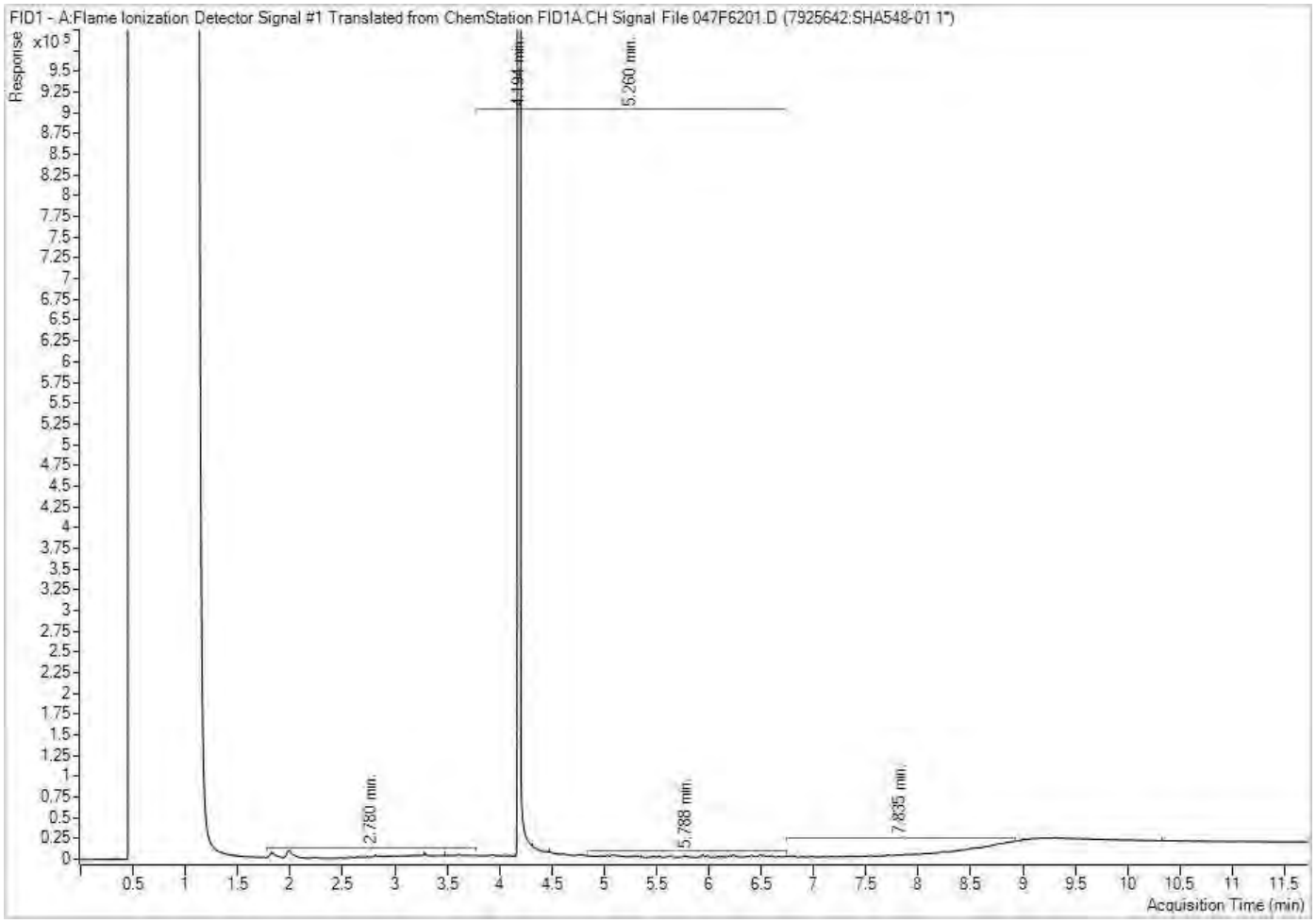
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV-549311

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

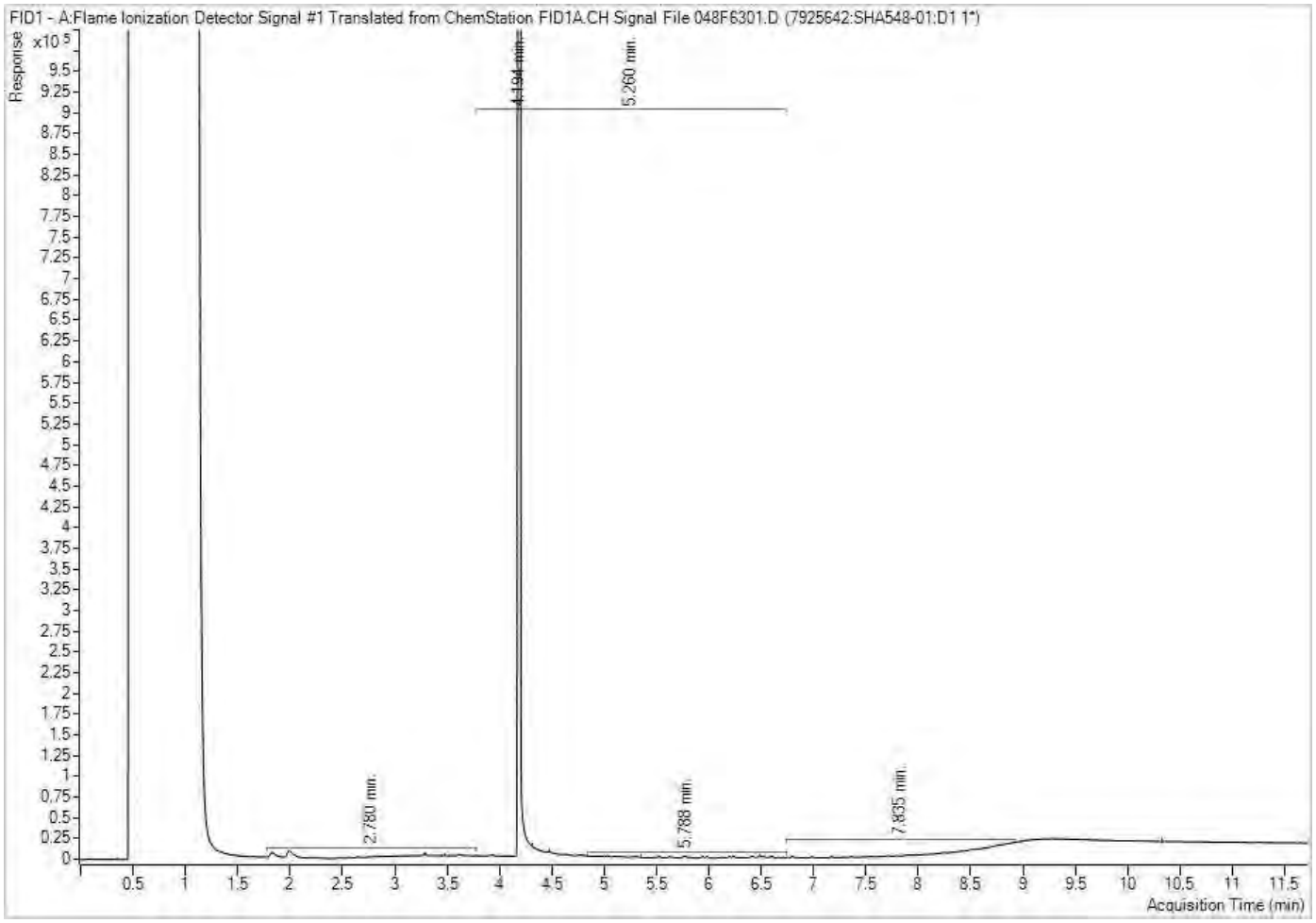


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289710
Report Date: 2022/04/27
Bureau Veritas Sample: SHA548 Lab-Dup

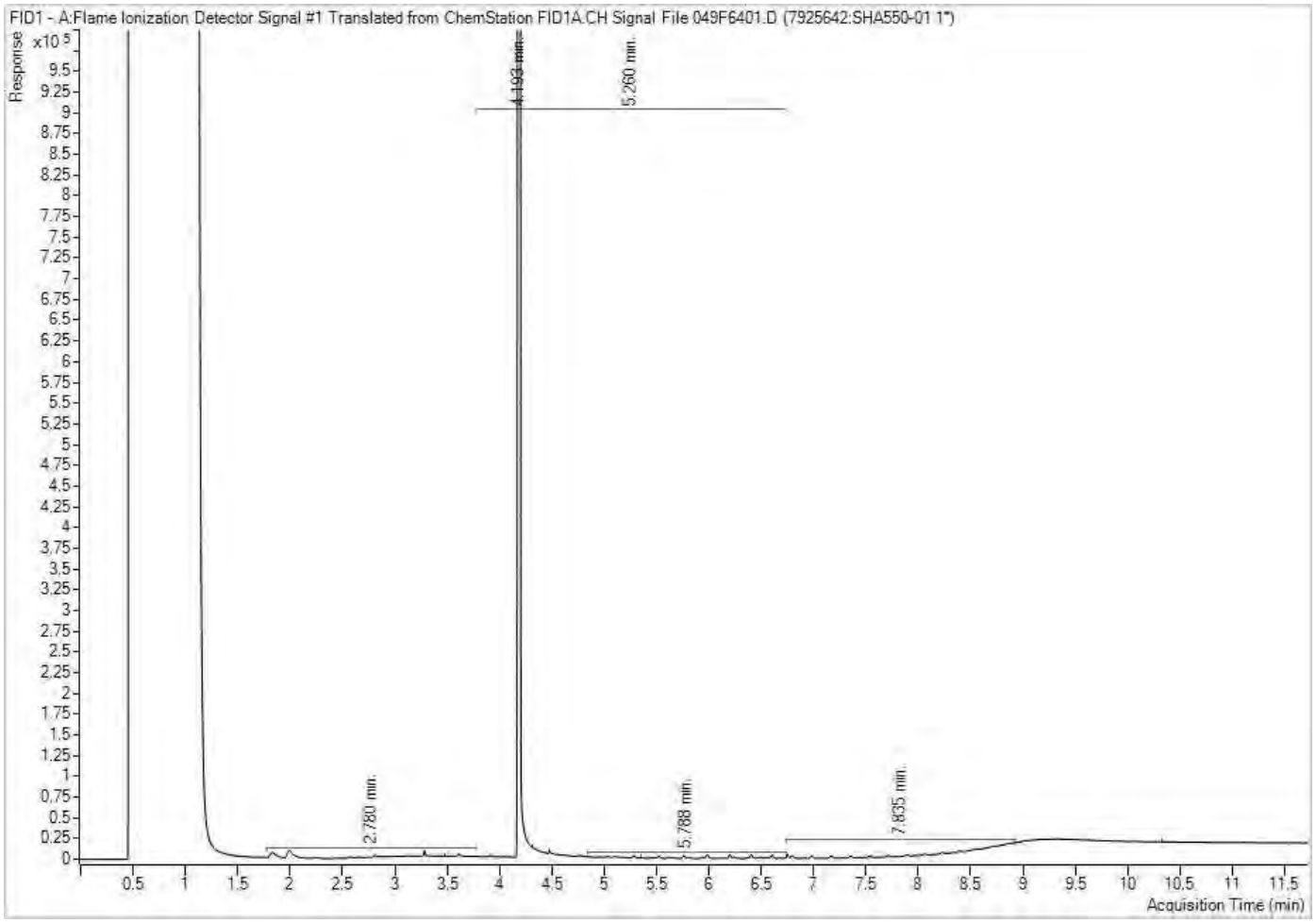
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 2
Client ID: 2-BH211-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



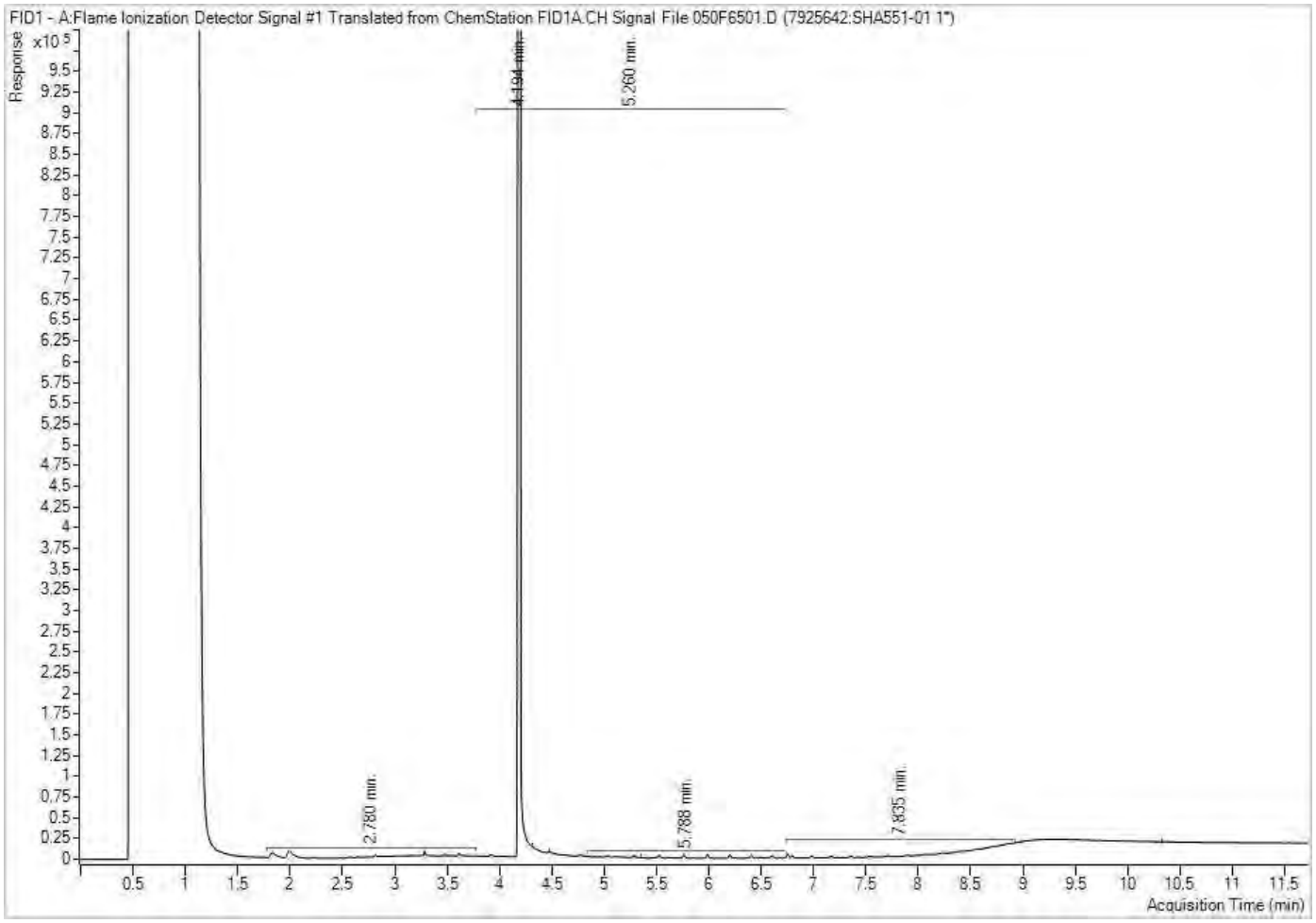
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Your C.O.C. #: 844283-07-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128221
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289710
Received: 2022/04/05, 15:28

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	2	2022/04/07	2022/04/07	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/04/08	2022/04/08	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/12	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	2	2022/04/07	2022/04/08	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/04/08	2022/04/09	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	2	2022/05/11	2022/05/11	CAM SOP-00457	OMOE E3015 m
Conductivity	5	2022/04/11	2022/04/11	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/07	2022/04/08	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	2	2022/05/12	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2022/04/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	3	2022/04/06	2022/04/07	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	3	2022/04/07	2022/04/07	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	2	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2022/04/05	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	2	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	3	2022/04/11	2022/04/11	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	2	2022/05/11	2022/05/11	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	5	N/A	2022/04/12	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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Your C.O.C. #: 844283-07-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128221
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289710
Received: 2022/04/05, 15:28

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.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA548			SHA549			SHA550		
Sampling Date		2022/03/30 10:04			2022/03/30 10:17			2022/03/30 10:38		
COC Number		844283-07-01			844283-07-01			844283-07-01		
	UNITS	2-BH211-1	RDL	QC Batch	2-BH211-4	RDL	QC Batch	2-BH212-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.43		7923352				0.32		7923352
Inorganics										
Conductivity	mS/cm	0.22	0.002	7933296				0.20	0.002	7933296
Moisture	%				23	1.0	7986390			
Available (CaCl2) pH	pH	7.87		7932943	7.63		7988486	7.44		7932943
WAD Cyanide (Free)	ug/g	<0.01	0.01	7926824	<0.01	0.01	7988075	<0.01	0.01	7926824
Chromium (VI)	ug/g	<0.18	0.18	7926920	<0.18	0.18	7992244	0.34	0.18	7926920
Metals										
Hot Water Ext. Boron (B)	ug/g	0.12	0.050	7927009	0.30	0.050	7991491	0.057	0.050	7929287
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7927548	0.24	0.20	7990822	<0.20	0.20	7927548
Acid Extractable Arsenic (As)	ug/g	3.6	1.0	7927548	4.4	1.0	7990822	3.1	1.0	7927548
Acid Extractable Barium (Ba)	ug/g	79	0.50	7927548	120	0.50	7990822	78	0.50	7927548
Acid Extractable Beryllium (Be)	ug/g	0.52	0.20	7927548	0.92	0.20	7990822	0.62	0.20	7927548
Acid Extractable Boron (B)	ug/g	6.6	5.0	7927548	13	5.0	7990822	<5.0	5.0	7927548
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7927548	0.11	0.10	7990822	<0.10	0.10	7927548
Acid Extractable Chromium (Cr)	ug/g	15	1.0	7927548	28	1.0	7990822	19	1.0	7927548
Acid Extractable Cobalt (Co)	ug/g	9.2	0.10	7927548	15	0.10	7990822	10	0.10	7927548
Acid Extractable Copper (Cu)	ug/g	18	0.50	7927548	25	0.50	7990822	17	0.50	7927548
Acid Extractable Lead (Pb)	ug/g	6.1	1.0	7927548	10	1.0	7990822	7.4	1.0	7927548
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7927548	0.71	0.50	7990822	<0.50	0.50	7927548
Acid Extractable Nickel (Ni)	ug/g	20	0.50	7927548	33	0.50	7990822	20	0.50	7927548
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7927548	<0.50	0.50	7990822	<0.50	0.50	7927548
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7927548	<0.20	0.20	7990822	<0.20	0.20	7927548
Acid Extractable Thallium (Tl)	ug/g	0.10	0.050	7927548	0.15	0.050	7990822	0.080	0.050	7927548
Acid Extractable Uranium (U)	ug/g	0.56	0.050	7927548	0.76	0.050	7990822	0.49	0.050	7927548
Acid Extractable Vanadium (V)	ug/g	23	5.0	7927548	37	5.0	7990822	29	5.0	7927548
Acid Extractable Zinc (Zn)	ug/g	42	5.0	7927548	68	5.0	7990822	40	5.0	7927548
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7927548	<0.050	0.050	7990822	<0.050	0.050	7927548

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA550			SHA551			SHA552		
Sampling Date		2022/03/30 10:38			2022/03/30 10:38			2022/03/30 10:47		
COC Number		844283-07-01			844283-07-01			844283-07-01		
	UNITS	2-BH212-1 Lab-Dup	RDL	QC Batch	2-BH212-91	RDL	QC Batch	2-BH212-4	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A				0.33		7923352			
Inorganics										
Conductivity	mS/cm				0.23	0.002	7933293			
Moisture	%							18	1.0	7986390
Available (CaCl2) pH	pH				6.57		7932943	7.75		7988486
WAD Cyanide (Free)	ug/g				<0.01	0.01	7929410	<0.01	0.01	7988075
Chromium (VI)	ug/g				0.24	0.18	7926920	<0.18	0.18	7992244
Metals										
Hot Water Ext. Boron (B)	ug/g	0.059	0.050	7929287	0.067	0.050	7927009	0.18	0.050	7990894
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7927548	<0.20	0.20	7927548	<0.20	0.20	7990822
Acid Extractable Arsenic (As)	ug/g	3.0	1.0	7927548	4.6	1.0	7927548	5.0	1.0	7990822
Acid Extractable Barium (Ba)	ug/g	79	0.50	7927548	110	0.50	7927548	100	0.50	7990822
Acid Extractable Beryllium (Be)	ug/g	0.63	0.20	7927548	0.83	0.20	7927548	0.74	0.20	7990822
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7927548	<5.0	5.0	7927548	9.6	5.0	7990822
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7927548	<0.10	0.10	7927548	<0.10	0.10	7990822
Acid Extractable Chromium (Cr)	ug/g	18	1.0	7927548	24	1.0	7927548	23	1.0	7990822
Acid Extractable Cobalt (Co)	ug/g	11	0.10	7927548	13	0.10	7927548	14	0.10	7990822
Acid Extractable Copper (Cu)	ug/g	17	0.50	7927548	25	0.50	7927548	24	0.50	7990822
Acid Extractable Lead (Pb)	ug/g	7.5	1.0	7927548	10	1.0	7927548	8.2	1.0	7990822
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7927548	<0.50	0.50	7927548	0.70	0.50	7990822
Acid Extractable Nickel (Ni)	ug/g	21	0.50	7927548	29	0.50	7927548	31	0.50	7990822
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7927548	<0.50	0.50	7927548	<0.50	0.50	7990822
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7927548	<0.20	0.20	7927548	<0.20	0.20	7990822
Acid Extractable Thallium (Tl)	ug/g	0.078	0.050	7927548	0.12	0.050	7927548	0.14	0.050	7990822
Acid Extractable Uranium (U)	ug/g	0.47	0.050	7927548	0.44	0.050	7927548	0.66	0.050	7990822
Acid Extractable Vanadium (V)	ug/g	28	5.0	7927548	32	5.0	7927548	31	5.0	7990822
Acid Extractable Zinc (Zn)	ug/g	40	5.0	7927548	59	5.0	7927548	56	5.0	7990822
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7927548	<0.050	0.050	7927548	<0.050	0.050	7990822

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C289710
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

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

Bureau Veritas ID		SHA548			SHA548			SHA550	SHA551		
Sampling Date		2022/03/30 10:04			2022/03/30 10:04			2022/03/30 10:38	2022/03/30 10:38		
COC Number		844283-07-01			844283-07-01			844283-07-01	844283-07-01		
	UNITS	2-BH211-1	RDL	QC Batch	2-BH211-1 Lab-Dup	RDL	QC Batch	2-BH212-1	2-BH212-91	RDL	QC Batch
Inorganics											
Moisture	%	20	1.0	7923725				18	19	1.0	7923725
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
Toluene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
Ethylbenzene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
o-Xylene	ug/g	<0.020	0.020	7924370				<0.020	<0.020	0.020	7924370
p+m-Xylene	ug/g	<0.040	0.040	7924370				<0.040	<0.040	0.040	7924370
Total Xylenes	ug/g	<0.040	0.040	7924370				<0.040	<0.040	0.040	7924370
F1 (C6-C10)	ug/g	<10	10	7924370				<10	<10	10	7924370
F1 (C6-C10) - BTEX	ug/g	<10	10	7924370				<10	<10	10	7924370
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7925642	<10	10	7925642	<10	<10	10	7925642
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7925642	<50	50	7925642	<50	<50	50	7925642
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7925642	<50	50	7925642	<50	<50	50	7925642
Reached Baseline at C50	ug/g	Yes		7925642	Yes		7925642	Yes	Yes		7925642
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	110		7924370				107	105		7924370
4-Bromofluorobenzene	%	88		7924370				90	92		7924370
D10-o-Xylene	%	103		7924370				109	111		7924370
D4-1,2-Dichloroethane	%	106		7924370				106	105		7924370
o-Terphenyl	%	111		7925642	110		7925642	109	108		7925642

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C289710
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHA549		SHA552		
Sampling Date		2022/03/30 10:17		2022/03/30 10:47		
COC Number		844283-07-01		844283-07-01		
	UNITS	2-BH211-4	QC Batch	2-BH212-4	RDL	QC Batch
Calculated Parameters						
Sodium Adsorption Ratio	N/A	1.4	7923352	0.48		7923352
Inorganics						
Conductivity	mS/cm	0.79	7933409	0.75	0.002	7933293
Miscellaneous Parameters						
Grain Size	%	FINE	7952276	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	96	7952276	96	1	7952276
Sieve - #200 (>0.075mm)	%	4	7952276	4	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C289710
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA548
Sample ID: 2-BH211-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7927009	2022/04/07	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926824	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7933296	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA548 Dup
Sample ID: 2-BH211-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li

Bureau Veritas ID: SHA549
Sample ID: 2-BH211-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7991491	2022/05/12	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7988075	2022/05/11	2022/05/11	Nimarta Singh
Conductivity	AT	7933409	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7992244	2022/05/12	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990822	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7986390	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7988486	2022/05/11	2022/05/11	Taslima Aktar
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA550
Sample ID: 2-BH212-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7929287	2022/04/08	2022/04/08	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7926824	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7933296	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li

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Bureau Veritas Job #: C289710
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 2
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA550
Sample ID: 2-BH212-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA550 Dup
Sample ID: 2-BH212-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7929287	2022/04/08	2022/04/08	Suban Kanapathippllai
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu

Bureau Veritas ID: SHA551
Sample ID: 2-BH212-91
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7927009	2022/04/07	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7929410	2022/04/08	2022/04/09	Aditiben Patel
Conductivity	AT	7933293	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926920	2022/04/07	2022/04/08	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924370	N/A	2022/04/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925642	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7927548	2022/04/07	2022/04/07	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932943	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHA552
Sample ID: 2-BH212-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7988075	2022/05/11	2022/05/11	Nimarta Singh
Conductivity	AT	7933293	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7992244	2022/05/12	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990822	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7986390	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7988486	2022/05/11	2022/05/11	Taslima Aktar
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/12	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 2-BH211-4 and 2-BH212-4 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924370	1,4-Difluorobenzene	2022/04/06	95	60 - 140	91	60 - 140	104	%				
7924370	4-Bromofluorobenzene	2022/04/06	99	60 - 140	104	60 - 140	96	%				
7924370	D10-o-Xylene	2022/04/06	99	60 - 140	93	60 - 140	102	%				
7924370	D4-1,2-Dichloroethane	2022/04/06	92	60 - 140	92	60 - 140	108	%				
7925642	o-Terphenyl	2022/04/07	99	60 - 130	103	60 - 130	110	%				
7923725	Moisture	2022/04/05							0	20		
7924370	Benzene	2022/04/06	93	50 - 140	86	50 - 140	<0.020	ug/g	NC	50		
7924370	Ethylbenzene	2022/04/06	112	50 - 140	103	50 - 140	<0.020	ug/g	NC	50		
7924370	F1 (C6-C10) - BTEX	2022/04/06					<10	ug/g	NC	30		
7924370	F1 (C6-C10)	2022/04/06	87	60 - 140	82	80 - 120	<10	ug/g	NC	30		
7924370	o-Xylene	2022/04/06	114	50 - 140	107	50 - 140	<0.020	ug/g	NC	50		
7924370	p+m-Xylene	2022/04/06	111	50 - 140	103	50 - 140	<0.040	ug/g	NC	50		
7924370	Toluene	2022/04/06	97	50 - 140	90	50 - 140	<0.020	ug/g	11	50		
7924370	Total Xylenes	2022/04/06					<0.040	ug/g	NC	50		
7925642	F2 (C10-C16 Hydrocarbons)	2022/04/07	112	60 - 130	119	80 - 120	<10	ug/g	NC	30		
7925642	F3 (C16-C34 Hydrocarbons)	2022/04/07	110	60 - 130	118	80 - 120	<50	ug/g	NC	30		
7925642	F4 (C34-C50 Hydrocarbons)	2022/04/07	104	60 - 130	114	80 - 120	<50	ug/g	NC	30		
7926824	WAD Cyanide (Free)	2022/04/08	77	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7926920	Chromium (VI)	2022/04/08	76	70 - 130	88	80 - 120	<0.18	ug/g	16	35		
7927009	Hot Water Ext. Boron (B)	2022/04/07	110	75 - 125	111	75 - 125	<0.050	ug/g	7.8	40		
7927548	Acid Extractable Antimony (Sb)	2022/04/07	82	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
7927548	Acid Extractable Arsenic (As)	2022/04/07	93	75 - 125	97	80 - 120	<1.0	ug/g	2.6	30		
7927548	Acid Extractable Barium (Ba)	2022/04/07	NC	75 - 125	98	80 - 120	<0.50	ug/g	2.4	30		
7927548	Acid Extractable Beryllium (Be)	2022/04/07	100	75 - 125	101	80 - 120	<0.20	ug/g	0.89	30		
7927548	Acid Extractable Boron (B)	2022/04/07	86	75 - 125	98	80 - 120	<5.0	ug/g	NC	30		
7927548	Acid Extractable Cadmium (Cd)	2022/04/07	95	75 - 125	98	80 - 120	<0.10	ug/g	NC	30		
7927548	Acid Extractable Chromium (Cr)	2022/04/07	96	75 - 125	99	80 - 120	<1.0	ug/g	4.9	30		
7927548	Acid Extractable Cobalt (Co)	2022/04/07	94	75 - 125	99	80 - 120	<0.10	ug/g	1.3	30		
7927548	Acid Extractable Copper (Cu)	2022/04/07	92	75 - 125	99	80 - 120	<0.50	ug/g	0.80	30		
7927548	Acid Extractable Lead (Pb)	2022/04/07	98	75 - 125	102	80 - 120	<1.0	ug/g	0.84	30		
7927548	Acid Extractable Mercury (Hg)	2022/04/07	81	75 - 125	92	80 - 120	<0.050	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7927548	Acid Extractable Molybdenum (Mo)	2022/04/07	96	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7927548	Acid Extractable Nickel (Ni)	2022/04/07	92	75 - 125	98	80 - 120	<0.50	ug/g	1.9	30		
7927548	Acid Extractable Selenium (Se)	2022/04/07	92	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7927548	Acid Extractable Silver (Ag)	2022/04/07	97	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7927548	Acid Extractable Thallium (Tl)	2022/04/07	100	75 - 125	105	80 - 120	<0.050	ug/g	1.7	30		
7927548	Acid Extractable Uranium (U)	2022/04/07	99	75 - 125	104	80 - 120	<0.050	ug/g	4.6	30		
7927548	Acid Extractable Vanadium (V)	2022/04/07	NC	75 - 125	97	80 - 120	<5.0	ug/g	5.0	30		
7927548	Acid Extractable Zinc (Zn)	2022/04/07	NC	75 - 125	101	80 - 120	<5.0	ug/g	0.73	30		
7929287	Hot Water Ext. Boron (B)	2022/04/08	98	75 - 125	95	75 - 125	<0.050	ug/g	2.6	40		
7929410	WAD Cyanide (Free)	2022/04/09	86	75 - 125	90	80 - 120	<0.01	ug/g	NC	35		
7932943	Available (CaCl2) pH	2022/04/11			101	97 - 103			2.0	N/A		
7933293	Conductivity	2022/04/11			100	90 - 110	<0.002	mS/cm	1.8	10		
7933296	Conductivity	2022/04/11			100	90 - 110	<0.002	mS/cm	3.1	10		
7933409	Conductivity	2022/04/11			101	90 - 110	<0.002	mS/cm	3.2	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7986390	Moisture	2022/05/10							2.0	20		
7988075	WAD Cyanide (Free)	2022/05/11	95	75 - 125	92	80 - 120	<0.01	ug/g	NC	35		
7988486	Available (CaCl2) pH	2022/05/11			100	97 - 103			1.7	N/A		
7990822	Acid Extractable Antimony (Sb)	2022/05/13	100	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Arsenic (As)	2022/05/13	105	75 - 125	102	80 - 120	<1.0	ug/g	NC	30		
7990822	Acid Extractable Barium (Ba)	2022/05/13	104	75 - 125	98	80 - 120	<0.50	ug/g	0.98	30		
7990822	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Boron (B)	2022/05/13	102	75 - 125	97	80 - 120	<5.0	ug/g	NC	30		
7990822	Acid Extractable Cadmium (Cd)	2022/05/13	104	75 - 125	98	80 - 120	<0.10	ug/g	NC	30		
7990822	Acid Extractable Chromium (Cr)	2022/05/13	111	75 - 125	105	80 - 120	<1.0	ug/g	0.33	30		
7990822	Acid Extractable Cobalt (Co)	2022/05/13	106	75 - 125	103	80 - 120	<0.10	ug/g	3.9	30		
7990822	Acid Extractable Copper (Cu)	2022/05/13	101	75 - 125	100	80 - 120	<0.50	ug/g	2.6	30		
7990822	Acid Extractable Lead (Pb)	2022/05/13	105	75 - 125	104	80 - 120	<1.0	ug/g	3.0	30		
7990822	Acid Extractable Mercury (Hg)	2022/05/13	88	75 - 125	89	80 - 120	<0.050	ug/g				
7990822	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	102	80 - 120	<0.50	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7990822	Acid Extractable Nickel (Ni)	2022/05/13	105	75 - 125	104	80 - 120	<0.50	ug/g	11	30		
7990822	Acid Extractable Selenium (Se)	2022/05/13	108	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7990822	Acid Extractable Silver (Ag)	2022/05/13	105	75 - 125	103	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Thallium (Tl)	2022/05/13	105	75 - 125	105	80 - 120	<0.050	ug/g	NC	30		
7990822	Acid Extractable Uranium (U)	2022/05/13	105	75 - 125	106	80 - 120	<0.050	ug/g	3.3	30		
7990822	Acid Extractable Vanadium (V)	2022/05/13	112	75 - 125	103	80 - 120	<5.0	ug/g	6.9	30		
7990822	Acid Extractable Zinc (Zn)	2022/05/13	98	75 - 125	101	80 - 120	<5.0	ug/g	8.4	30		
7990894	Hot Water Ext. Boron (B)	2022/05/13	104	75 - 125	93	75 - 125	<0.050	ug/g	5.2	40		
7991491	Hot Water Ext. Boron (B)	2022/05/12	108	75 - 125	102	75 - 125	<0.050	ug/g	10	40		
7992244	Chromium (VI)	2022/05/13	85	70 - 130	95	80 - 120	<0.18	ug/g	3.4	35		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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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 Signature Page.

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

Page 1 of 1

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30085 Parkland Fuel Corporation~~ Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd.~~	Quotation #: ~~B93691~~ C21481	BV Labs Job #:
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~ Roy Yu	P.O. #:	Bottle Order #: 844283
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd. ~~Calgary AB T2P 4H4~~ Toronto, ON	Address: ~~85 Nebo Road~~ ~~Hamilton ON L8W 2C9~~	Project: CT3243.01	COC #: C#844283-07-01
Tel: ~~(403) 567-2500~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 Fax:	Project Name: Grand Niagara Golf RSC2	Project Manager: Kudrat Bajwa
Email: ~~kristen.burmeister@bvlabs.com~~ Accounts.Payable@terrapex.com	Email: ~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Site #: ~~BU-26535~~	
		Sampled By: AP	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	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	Metals and Inorganics	EC/SAR	# of Bottles	Comments
1		2-BH211-1	March 30 22	10:04	S	N	X	X		3	
2		2-BH211-4		10:17					X	3	Please place 2x120mL jars ON HOLD
3		2-BH212-1		10:38			X	X		3	
4		2-BH212-91		10:38			X	X		3	
5		2-BH212-4		10:47					X	1	
6		2-BH212-3		10:49							ON HOLD
7											
8											
9											
10											

05-Apr-22 15:28
Kudrat Bajwa
C289710
URE ENV-925

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Paniak AP	22/04/04	6:30	Ray Meisami	2022/04/05	1588	0

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 2 | 3 | 2 | Custody Seal Present: Yes ☒ No ☐ | Intact: Yes ☒ No ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

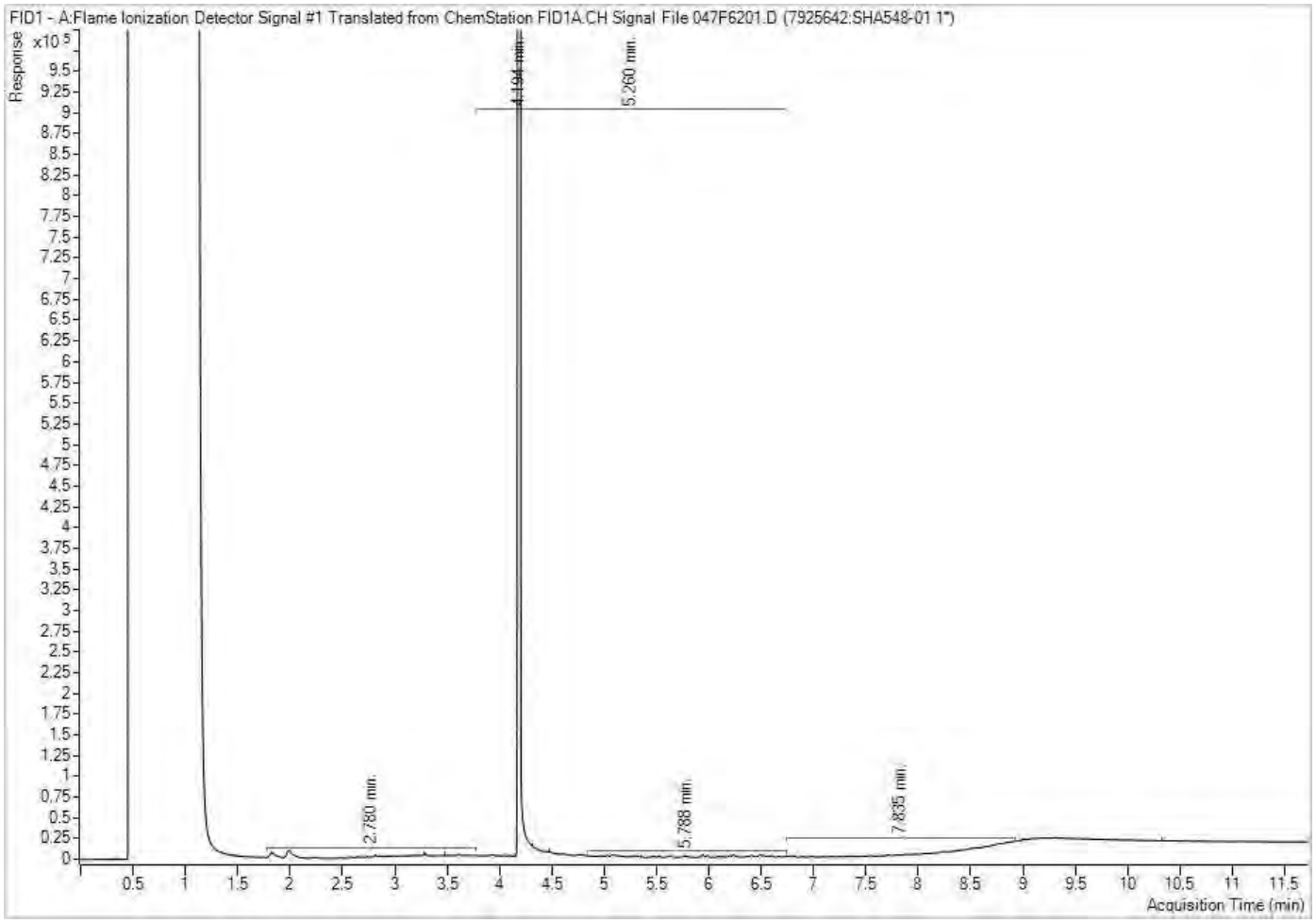
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV-549311

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

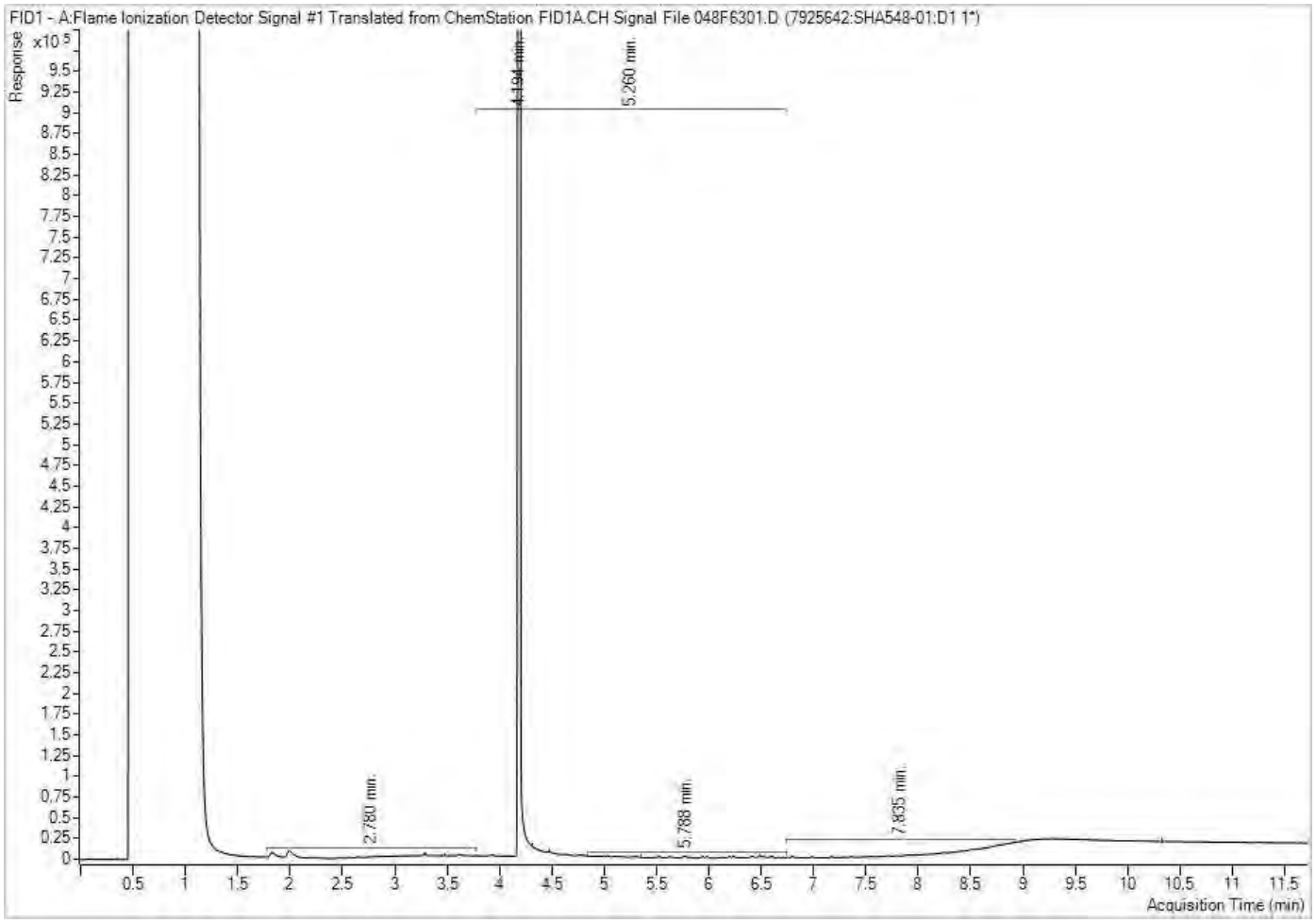


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289710
Report Date: 2022/05/17
Bureau Veritas Sample: SHA548 Lab-Dup

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 2
Client ID: 2-BH211-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

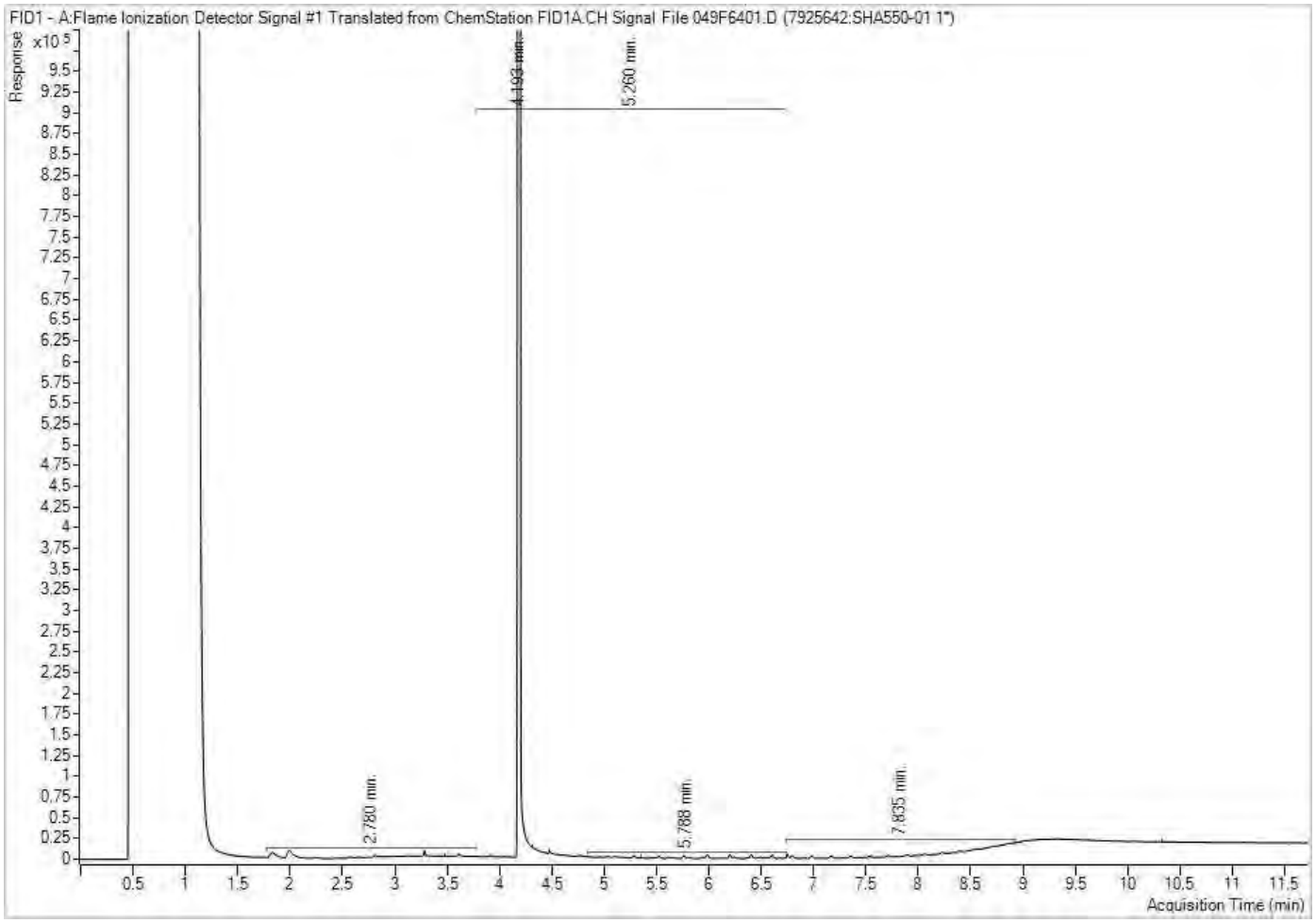


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289710
Report Date: 2022/05/17
Bureau Veritas Sample: SHA550

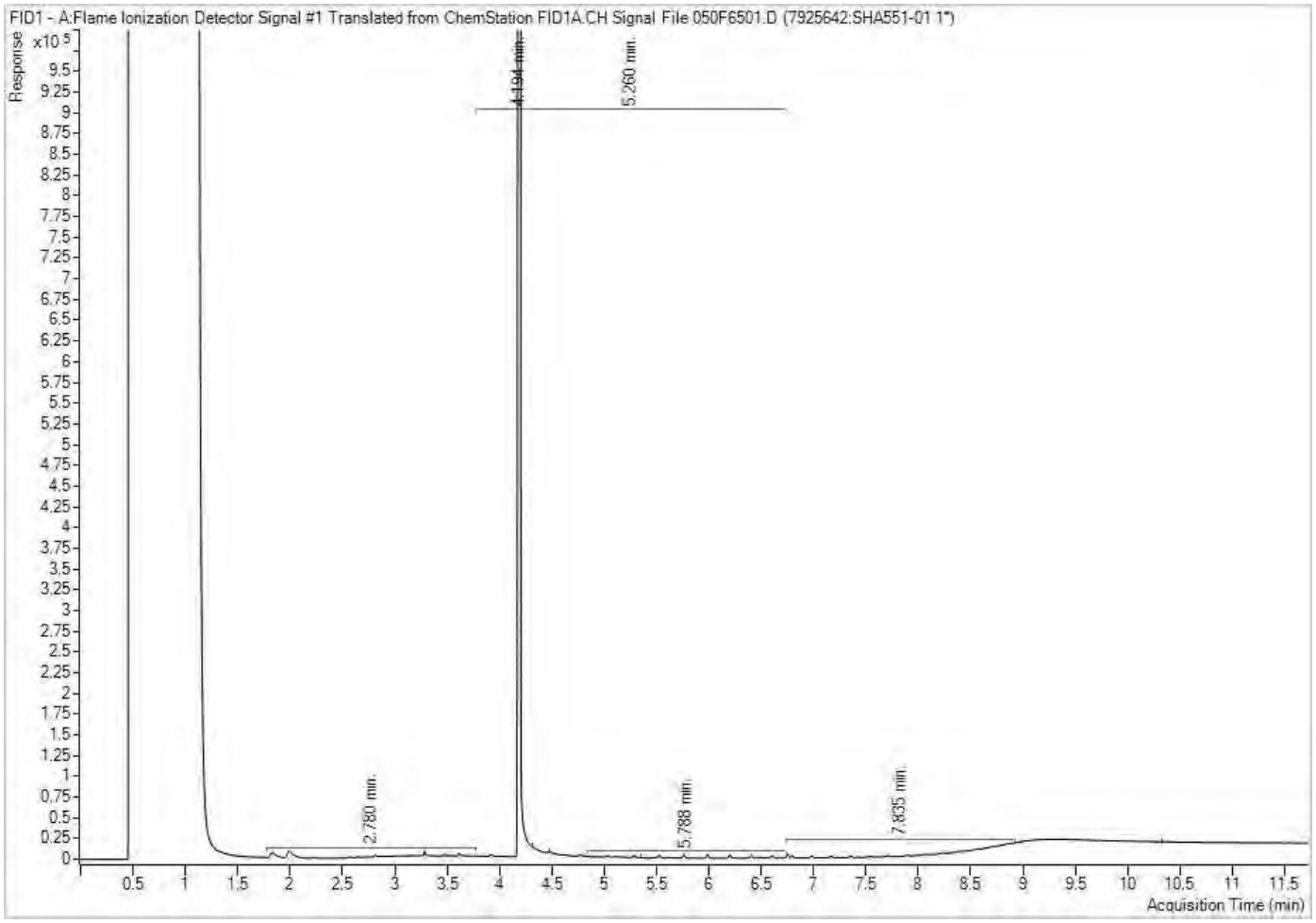
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 2
Client ID: 2-BH212-1

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.

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.

Your Project #: CT3243.01
Site#: RSC 2
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 821593-03-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128209
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296109
Received: 2022/04/11, 17:30

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	1	2022/04/14	2022/04/18	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/12	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/04/14	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2022/04/14	2022/04/14	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/04/18	2022/04/18	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/14	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	1	N/A	2022/04/14	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	1	2022/04/14	2022/04/18	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/05/13	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	1	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/19	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

Your Project #: CT3243.01
Site#: RSC 2
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 821593-03-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128209
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296109
Received: 2022/04/11, 17:30

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL162			SIL163		
Sampling Date		2022/04/08 08:20			2022/04/08 08:30		
COC Number		821593-03-01			821593-03-01		
	UNITS	2-BH237-1A	RDL	QC Batch	2-BH237-2B	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.33		7935939			
Inorganics							
Conductivity	mS/cm	0.18	0.002	7941156			
Moisture	%				20	1.0	7986928
Available (CaCl2) pH	pH	7.60		7944011	7.92		7994248
WAD Cyanide (Free)	ug/g	<0.01	0.01	7941220	<0.01	0.01	7993299
Chromium (VI)	ug/g	0.18	0.18	7940769	<0.18	0.18	7993758
Metals							
Hot Water Ext. Boron (B)	ug/g	0.062	0.050	7941115	0.26	0.050	7991491
Acid Extractable Antimony (Sb)	ug/g	0.31	0.20	7940870	0.22	0.20	7993797
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7940870	5.5	1.0	7993797
Acid Extractable Barium (Ba)	ug/g	130	0.50	7940870	150	0.50	7993797
Acid Extractable Beryllium (Be)	ug/g	1.1	0.20	7940870	0.85	0.20	7993797
Acid Extractable Boron (B)	ug/g	10	5.0	7940870	12	5.0	7993797
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7940870	0.13	0.10	7993797
Acid Extractable Chromium (Cr)	ug/g	30	1.0	7940870	28	1.0	7993797
Acid Extractable Cobalt (Co)	ug/g	16	0.10	7940870	16	0.10	7993797
Acid Extractable Copper (Cu)	ug/g	26	0.50	7940870	25	0.50	7993797
Acid Extractable Lead (Pb)	ug/g	11	1.0	7940870	12	1.0	7993797
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7940870	0.91	0.50	7993797
Acid Extractable Nickel (Ni)	ug/g	36	0.50	7940870	35	0.50	7993797
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870	<0.50	0.50	7993797
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870	<0.20	0.20	7993797
Acid Extractable Thallium (Tl)	ug/g	0.19	0.050	7940870	0.20	0.050	7993797
Acid Extractable Uranium (U)	ug/g	0.79	0.050	7940870	0.89	0.050	7993797
Acid Extractable Vanadium (V)	ug/g	41	5.0	7940870	38	5.0	7993797
Acid Extractable Zinc (Zn)	ug/g	71	5.0	7940870	71	5.0	7993797
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870	<0.050	0.050	7993797

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL162			SIL162		
Sampling Date		2022/04/08 08:20			2022/04/08 08:20		
COC Number		821593-03-01			821593-03-01		
	UNITS	2-BH237-1A	RDL	QC Batch	2-BH237-1A Lab-Dup	RDL	QC Batch
Inorganics							
Moisture	%	20	1.0	7936126	20	1.0	7936126
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	7940379			
Toluene	ug/g	<0.020	0.020	7940379			
Ethylbenzene	ug/g	<0.020	0.020	7940379			
o-Xylene	ug/g	<0.020	0.020	7940379			
p+m-Xylene	ug/g	<0.040	0.040	7940379			
Total Xylenes	ug/g	<0.040	0.040	7940379			
F1 (C6-C10)	ug/g	<10	10	7940379			
F1 (C6-C10) - BTEX	ug/g	<10	10	7940379			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7946081			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7946081			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7946081			
Reached Baseline at C50	ug/g	Yes		7946081			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	104		7940379			
4-Bromofluorobenzene	%	93		7940379			
D10-o-Xylene	%	117		7940379			
D4-1,2-Dichloroethane	%	106		7940379			
o-Terphenyl	%	94		7946081			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296109
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL163		
Sampling Date		2022/04/08 08:30		
COC Number		821593-03-01		
	UNITS	2-BH237-2B	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.53		7935939
Inorganics				
Conductivity	mS/cm	1.1	0.002	7943994
Miscellaneous Parameters				
Grain Size	%	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	98	1	7952276
Sieve - #200 (>0.075mm)	%	2	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C296109
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL162
Sample ID: 2-BH237-1A
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7941115	2022/04/14	2022/04/18	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7941220	2022/04/14	2022/04/18	Nimarta Singh
Conductivity	AT	7941156	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7940769	2022/04/14	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7940379	N/A	2022/04/14	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946081	2022/04/19	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944011	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

Bureau Veritas ID: SIL162 Dup
Sample ID: 2-BH237-1A
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIL163
Sample ID: 2-BH237-2B
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7991491	2022/05/12	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7943994	2022/04/18	2022/04/18	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993758	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993797	2022/05/13	2022/05/13	Viviana Canzonieri
Moisture	BAL	7986928	N/A	2022/05/10	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7994248	2022/05/13	2022/05/13	Taslima Aktar
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample2-BH237-2B as per client.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940379	1,4-Difluorobenzene	2022/04/14	100	60 - 140	98	60 - 140	103	%				
7940379	4-Bromofluorobenzene	2022/04/14	102	60 - 140	104	60 - 140	95	%				
7940379	D10-o-Xylene	2022/04/14	110	60 - 140	105	60 - 140	108	%				
7940379	D4-1,2-Dichloroethane	2022/04/14	100	60 - 140	100	60 - 140	106	%				
7946081	o-Terphenyl	2022/04/19	92	60 - 130	90	60 - 130	93	%				
7936126	Moisture	2022/04/12							1.0	20		
7940379	Benzene	2022/04/14	107	50 - 140	108	50 - 140	<0.020	ug/g	NC	50		
7940379	Ethylbenzene	2022/04/14	118	50 - 140	116	50 - 140	<0.020	ug/g	NC	50		
7940379	F1 (C6-C10) - BTEX	2022/04/14					<10	ug/g	NC	30		
7940379	F1 (C6-C10)	2022/04/14	88	60 - 140	87	80 - 120	<10	ug/g	NC	30		
7940379	o-Xylene	2022/04/14	112	50 - 140	110	50 - 140	<0.020	ug/g	NC	50		
7940379	p+m-Xylene	2022/04/14	110	50 - 140	109	50 - 140	<0.040	ug/g	NC	50		
7940379	Toluene	2022/04/14	99	50 - 140	99	50 - 140	<0.020	ug/g	NC	50		
7940379	Total Xylenes	2022/04/14					<0.040	ug/g	NC	50		
7940769	Chromium (VI)	2022/04/18	76	70 - 130	88	80 - 120	<0.18	ug/g	NC	35		
7940870	Acid Extractable Antimony (Sb)	2022/04/19	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Arsenic (As)	2022/04/19	96	75 - 125	99	80 - 120	<1.0	ug/g	0.71	30		
7940870	Acid Extractable Barium (Ba)	2022/04/19	93	75 - 125	101	80 - 120	<0.50	ug/g	2.6	30		
7940870	Acid Extractable Beryllium (Be)	2022/04/19	97	75 - 125	99	80 - 120	<0.20	ug/g	5.1	30		
7940870	Acid Extractable Boron (B)	2022/04/19	101	75 - 125	98	80 - 120	<5.0	ug/g	0.51	30		
7940870	Acid Extractable Cadmium (Cd)	2022/04/19	95	75 - 125	99	80 - 120	<0.10	ug/g	24	30		
7940870	Acid Extractable Chromium (Cr)	2022/04/19	98	75 - 125	101	80 - 120	<1.0	ug/g	0.96	30		
7940870	Acid Extractable Cobalt (Co)	2022/04/19	95	75 - 125	101	80 - 120	<0.10	ug/g	3.2	30		
7940870	Acid Extractable Copper (Cu)	2022/04/19	99	75 - 125	97	80 - 120	<0.50	ug/g	2.7	30		
7940870	Acid Extractable Lead (Pb)	2022/04/19	95	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30		
7940870	Acid Extractable Mercury (Hg)	2022/04/19	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30		
7940870	Acid Extractable Molybdenum (Mo)	2022/04/19	98	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Nickel (Ni)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30		
7940870	Acid Extractable Selenium (Se)	2022/04/19	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Silver (Ag)	2022/04/19	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Thallium (Tl)	2022/04/19	95	75 - 125	102	80 - 120	<0.050	ug/g	14	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940870	Acid Extractable Uranium (U)	2022/04/19	97	75 - 125	100	80 - 120	<0.050	ug/g	3.9	30		
7940870	Acid Extractable Vanadium (V)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	0.84	30		
7940870	Acid Extractable Zinc (Zn)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	6.3	30		
7941115	Hot Water Ext. Boron (B)	2022/04/18	96	75 - 125	101	75 - 125	<0.050	ug/g	NC	40		
7941156	Conductivity	2022/04/14			100	90 - 110	<0.002	mS/cm	0.82	10		
7941220	WAD Cyanide (Free)	2022/04/18	96	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7943994	Conductivity	2022/04/18			100	90 - 110	<0.002	mS/cm	1.4	10		
7944011	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.61	N/A		
7946081	F2 (C10-C16 Hydrocarbons)	2022/04/19	96	60 - 130	93	80 - 120	<10	ug/g	NC	30		
7946081	F3 (C16-C34 Hydrocarbons)	2022/04/19	100	60 - 130	99	80 - 120	<50	ug/g	NC	30		
7946081	F4 (C34-C50 Hydrocarbons)	2022/04/19	103	60 - 130	102	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7986928	Moisture	2022/05/10							5.0	20		
7991491	Hot Water Ext. Boron (B)	2022/05/12	108	75 - 125	102	75 - 125	<0.050	ug/g	10	40		
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
7993758	Chromium (VI)	2022/05/13	80	70 - 130	92	80 - 120	<0.18	ug/g	NC	35		
7993797	Acid Extractable Antimony (Sb)	2022/05/13	95	75 - 125	94	80 - 120	<0.20	ug/g	NC	30		
7993797	Acid Extractable Arsenic (As)	2022/05/13	103	75 - 125	93	80 - 120	<1.0	ug/g	2.1	30		
7993797	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	96	80 - 120	<0.50	ug/g	0.51	30		
7993797	Acid Extractable Beryllium (Be)	2022/05/13	107	75 - 125	93	80 - 120	<0.20	ug/g	0.37	30		
7993797	Acid Extractable Boron (B)	2022/05/13	99	75 - 125	90	80 - 120	<5.0	ug/g	NC	30		
7993797	Acid Extractable Cadmium (Cd)	2022/05/13	102	75 - 125	92	80 - 120	<0.10	ug/g	14	30		
7993797	Acid Extractable Chromium (Cr)	2022/05/13	109	75 - 125	95	80 - 120	<1.0	ug/g	3.0	30		
7993797	Acid Extractable Cobalt (Co)	2022/05/13	106	75 - 125	95	80 - 120	<0.10	ug/g	5.0	30		
7993797	Acid Extractable Copper (Cu)	2022/05/13	103	75 - 125	92	80 - 120	<0.50	ug/g	6.4	30		
7993797	Acid Extractable Lead (Pb)	2022/05/13	110	75 - 125	97	80 - 120	<1.0	ug/g	6.1	30		
7993797	Acid Extractable Mercury (Hg)	2022/05/13	90	75 - 125	88	80 - 120	<0.050	ug/g	NC	30		
7993797	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30		
7993797	Acid Extractable Nickel (Ni)	2022/05/13	109	75 - 125	94	80 - 120	<0.50	ug/g	4.3	30		
7993797	Acid Extractable Selenium (Se)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7993797	Acid Extractable Silver (Ag)	2022/05/13	106	75 - 125	95	80 - 120	<0.20	ug/g	NC	30		
7993797	Acid Extractable Thallium (Tl)	2022/05/13	106	75 - 125	95	80 - 120	<0.050	ug/g	0.51	30		
7993797	Acid Extractable Uranium (U)	2022/05/13	107	75 - 125	96	80 - 120	<0.050	ug/g	1.6	30		
7993797	Acid Extractable Vanadium (V)	2022/05/13	107	75 - 125	95	80 - 120	<5.0	ug/g	2.6	30		
7993797	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	90	80 - 120	<5.0	ug/g	7.0	30		
7994248	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.40	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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Bureau Veritas Job #: C296109
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX	Quotation #:	~~C01024~~ C21481
Attention:	Accounts Payable	Attention:	~~Mike Deans~~ Roy Yu	P.O. #:	
Address:	90 Scarsdale Rd	Address:		Project:	~~CT2078.00~~ CT3243.01
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 235 Fax:	Site #:	~~4000 Campbellville Sideroad~~ RSC 2
Email:	accounts.payable@terrapex.com	Email:	~~m.deans@terrapex.com~~ R.Yu@terrapex.com	Sampled By:	R.AYMAN.

Laboratory Use Only: BV Labs Job #: | Bottle Order #: 821593 | COC #: C#821593-03-01 | Project Manager: Ema Gitej

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)?

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 Metals & Inorganics Pkg	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 PAHs	EC/SAR O.REG153	BTEX/PHCS (F1-F4) O.REG153	OC PESTICIDES				# of Bottles	Comments
1		2-BH237-1A	APRIL 8/22	820AM	SOIL	N	X				X					5	
2		2-BH237-2B	APRIL 8/22	830AM	SOIL	N				X						1	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

11-Apr-22 17:30
Ema Gitej
C296109
SBS ENV-1196

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only: Temperature (°C) on Recei	Custody Seal	Yes	No
RAYMOND AYMAN	22/04/08	1PM	Ashitha Sukumar ASHITHA SUKUMAR	2022/04/11	17:30	0		1/3/3	Present / Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

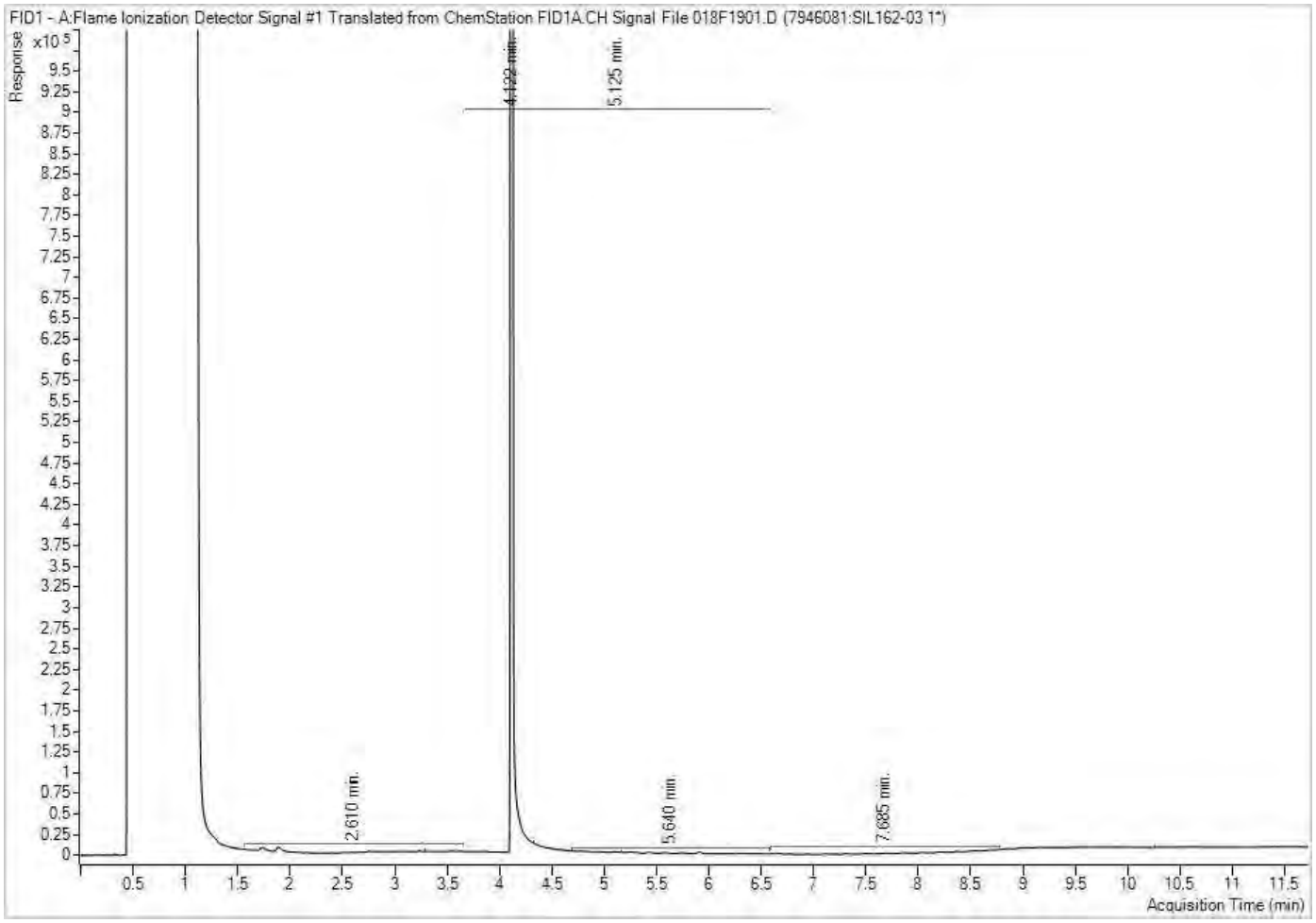
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C296109
Report Date: 2022/05/17
Bureau Veritas Sample: SIL162

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 2-BH237-1A

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: c#844283-08-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101373
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289705
Received: 2022/04/05, 15:28

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	4	2022/04/07	2022/04/08	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/04/08	2022/04/08	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2022/04/07	2022/04/08	CAM SOP-00457	OMOE E3015 m
Conductivity	5	2022/04/08	2022/04/08	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	5	2022/04/07	2022/04/08	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	2	N/A	2022/04/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	2	2022/04/08	2022/04/08	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/07	2022/04/08	CAM SOP-00447	EPA 6020B m
Moisture	5	N/A	2022/04/06	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	5	2022/04/07	2022/04/07	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	5	N/A	2022/04/11	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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: c#844283-08-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101373
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289705

Received: 2022/04/05, 15:28

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

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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 Signature Page.

Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA537			SHA538	SHA539		
Sampling Date		2022/03/30 11:15			2022/03/30 11:25	2022/03/30 11:25		
COC Number		c#844283-08-01			c#844283-08-01	c#844283-08-01		
	UNITS	3-BH213-1	RDL	QC Batch	3-BH213-4	3-BH213-94	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.31		7923352	0.50	0.47		7923352
Inorganics								
Conductivity	mS/cm	0.98	0.002	7929605	0.59	0.43	0.002	7929605
Moisture	%				20	20	1.0	7924364
Available (CaCl2) pH	pH	7.71		7927388	7.74	7.33		7927388
WAD Cyanide (Free)	ug/g	<0.01	0.01	7926783	<0.01	<0.01	0.01	7926783
Chromium (VI)	ug/g	<0.18	0.18	7926921	<0.18	<0.18	0.18	7926921
Metals								
Hot Water Ext. Boron (B)	ug/g	0.21	0.050	7928072	0.15	0.13	0.050	7928072
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7928074	<0.20	<0.20	0.20	7928074
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7928074	5.2	5.7	1.0	7928074
Acid Extractable Barium (Ba)	ug/g	110	0.50	7928074	120	160	0.50	7928074
Acid Extractable Beryllium (Be)	ug/g	0.79	0.20	7928074	0.82	1.1	0.20	7928074
Acid Extractable Boron (B)	ug/g	8.2	5.0	7928074	7.3	6.0	5.0	7928074
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7928074	<0.10	<0.10	0.10	7928074
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7928074	25	30	1.0	7928074
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7928074	15	16	0.10	7928074
Acid Extractable Copper (Cu)	ug/g	26	0.50	7928074	29	31	0.50	7928074
Acid Extractable Lead (Pb)	ug/g	10	1.0	7928074	9.9	12	1.0	7928074
Acid Extractable Molybdenum (Mo)	ug/g	0.61	0.50	7928074	0.52	<0.50	0.50	7928074
Acid Extractable Nickel (Ni)	ug/g	31	0.50	7928074	32	38	0.50	7928074
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7928074	<0.50	<0.50	0.50	7928074
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7928074	<0.20	<0.20	0.20	7928074
Acid Extractable Thallium (Tl)	ug/g	0.13	0.050	7928074	0.15	0.17	0.050	7928074
Acid Extractable Uranium (U)	ug/g	0.81	0.050	7928074	0.82	0.79	0.050	7928074
Acid Extractable Vanadium (V)	ug/g	33	5.0	7928074	34	39	5.0	7928074
Acid Extractable Zinc (Zn)	ug/g	64	5.0	7928074	61	68	5.0	7928074
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7928074	<0.050	<0.050	0.050	7928074

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA541			SHA542			SHA542		
Sampling Date		2022/03/30 12:00			2022/03/30 12:09			2022/03/30 12:09		
COC Number		c#844283-08-01			c#844283-08-01			c#844283-08-01		
	UNITS	3-BH214-1	RDL	QC Batch	3-BH214-4	RDL	QC Batch	3-BH214-4 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.29		7923352	0.80		7923352			
Inorganics										
Conductivity	mS/cm	0.88	0.002	7929605	0.57	0.002	7929605			
Moisture	%				19	1.0	7924364			
Available (CaCl2) pH	pH	7.74		7927388	7.47		7927388			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7926783	<0.01	0.01	7926783			
Chromium (VI)	ug/g	<0.18	0.18	7926921	0.18	0.18	7926921			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.23	0.050	7928072	0.062	0.050	7929282			
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7928074	<0.20	0.20	7928074	<0.20	0.20	7928074
Acid Extractable Arsenic (As)	ug/g	4.5	1.0	7928074	6.2	1.0	7928074	6.3	1.0	7928074
Acid Extractable Barium (Ba)	ug/g	110	0.50	7928074	150	0.50	7928074	150	0.50	7928074
Acid Extractable Beryllium (Be)	ug/g	0.73	0.20	7928074	1.2	0.20	7928074	1.2	0.20	7928074
Acid Extractable Boron (B)	ug/g	8.0	5.0	7928074	<5.0	5.0	7928074	<5.0	5.0	7928074
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7928074	<0.10	0.10	7928074	<0.10	0.10	7928074
Acid Extractable Chromium (Cr)	ug/g	23	1.0	7928074	26	1.0	7928074	26	1.0	7928074
Acid Extractable Cobalt (Co)	ug/g	14	0.10	7928074	17	0.10	7928074	17	0.10	7928074
Acid Extractable Copper (Cu)	ug/g	23	0.50	7928074	28	0.50	7928074	28	0.50	7928074
Acid Extractable Lead (Pb)	ug/g	9.3	1.0	7928074	11	1.0	7928074	12	1.0	7928074
Acid Extractable Molybdenum (Mo)	ug/g	0.53	0.50	7928074	0.56	0.50	7928074	0.68	0.50	7928074
Acid Extractable Nickel (Ni)	ug/g	30	0.50	7928074	36	0.50	7928074	35	0.50	7928074
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7928074	<0.50	0.50	7928074	<0.50	0.50	7928074
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7928074	<0.20	0.20	7928074	<0.20	0.20	7928074
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	7928074	0.13	0.050	7928074	0.14	0.050	7928074
Acid Extractable Uranium (U)	ug/g	0.72	0.050	7928074	0.65	0.050	7928074	0.66	0.050	7928074
Acid Extractable Vanadium (V)	ug/g	31	5.0	7928074	38	5.0	7928074	37	5.0	7928074
Acid Extractable Zinc (Zn)	ug/g	61	5.0	7928074	64	5.0	7928074	64	5.0	7928074
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7928074	<0.050	0.050	7928074	<0.050	0.050	7928074

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

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

Bureau Veritas ID		SHA537			SHA537			SHA541		
Sampling Date		2022/03/30 11:15			2022/03/30 11:15			2022/03/30 12:00		
COC Number		c#844283-08-01			c#844283-08-01			c#844283-08-01		
	UNITS	3-BH213-1	RDL	QC Batch	3-BH213-1 Lab-Dup	RDL	QC Batch	3-BH214-1	RDL	QC Batch
Inorganics										
Moisture	%	23	1.0	7924364	23	1.0	7924364	23	1.0	7924364
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	7924825				<0.020	0.020	7924825
Toluene	ug/g	0.032	0.020	7924825				<0.020	0.020	7924825
Ethylbenzene	ug/g	<0.020	0.020	7924825				<0.020	0.020	7924825
o-Xylene	ug/g	<0.020	0.020	7924825				<0.020	0.020	7924825
p+m-Xylene	ug/g	<0.040	0.040	7924825				<0.040	0.040	7924825
Total Xylenes	ug/g	<0.040	0.040	7924825				<0.040	0.040	7924825
F1 (C6-C10)	ug/g	<10	10	7924825				<10	10	7924825
F1 (C6-C10) - BTEX	ug/g	<10	10	7924825				<10	10	7924825
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7929277				<10	10	7929277
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7929277				<50	50	7929277
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7929277				<50	50	7929277
Reached Baseline at C50	ug/g	Yes		7929277				Yes		7929277
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	104		7924825				103		7924825
4-Bromofluorobenzene	%	97		7924825				99		7924825
D10-o-Xylene	%	110		7924825				110		7924825
D4-1,2-Dichloroethane	%	106		7924825				107		7924825
o-Terphenyl	%	93		7929277				93		7929277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHA538		
Sampling Date		2022/03/30 11:25		
COC Number		c#844283-08-01		
	UNITS	3-BH213-4	RDL	QC Batch
Miscellaneous Parameters				
Grain Size	%	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%	100	1	7952276
Sieve - #200 (>0.075mm)	%	<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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

Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA537
Sample ID: 3-BH213-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7928072	2022/04/07	2022/04/08	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926783	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7929605	2022/04/08	2022/04/08	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926921	2022/04/07	2022/04/08	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924825	N/A	2022/04/06	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7929277	2022/04/08	2022/04/08	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927388	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/11	Automated Statchk

Bureau Veritas ID: SHA537 Dup
Sample ID: 3-BH213-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles

Bureau Veritas ID: SHA538
Sample ID: 3-BH213-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7928072	2022/04/07	2022/04/08	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926783	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7929605	2022/04/08	2022/04/08	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926921	2022/04/07	2022/04/08	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927388	2022/04/07	2022/04/07	Neil Dassanayake
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/11	Automated Statchk

Bureau Veritas ID: SHA539
Sample ID: 3-BH213-94
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7928072	2022/04/07	2022/04/08	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926783	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7929605	2022/04/08	2022/04/08	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926921	2022/04/07	2022/04/08	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles

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Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA539
Sample ID: 3-BH213-94
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7927388	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/11	Automated Statchk

Bureau Veritas ID: SHA541
Sample ID: 3-BH214-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7928072	2022/04/07	2022/04/08	Gagandeep Rai
Free (WAD) Cyanide	TECH	7926783	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7929605	2022/04/08	2022/04/08	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926921	2022/04/07	2022/04/08	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924825	N/A	2022/04/06	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7929277	2022/04/08	2022/04/08	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927388	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/11	Automated Statchk

Bureau Veritas ID: SHA542
Sample ID: 3-BH214-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7929282	2022/04/08	2022/04/08	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7926783	2022/04/07	2022/04/08	Nimarta Singh
Conductivity	AT	7929605	2022/04/08	2022/04/08	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7926921	2022/04/07	2022/04/08	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu
Moisture	BAL	7924364	N/A	2022/04/06	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927388	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/11	Automated Statchk

Bureau Veritas ID: SHA542 Dup
Sample ID: 3-BH214-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7928074	2022/04/07	2022/04/08	Daniel Teclu

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample 3-BH213-4 as per client.

Sample SHA541 [3-BH214-1] : 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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924825	1,4-Difluorobenzene	2022/04/06	98	60 - 140	100	60 - 140	104	%				
7924825	4-Bromofluorobenzene	2022/04/06	101	60 - 140	102	60 - 140	94	%				
7924825	D10-o-Xylene	2022/04/06	103	60 - 140	108	60 - 140	104	%				
7924825	D4-1,2-Dichloroethane	2022/04/06	99	60 - 140	97	60 - 140	107	%				
7929277	o-Terphenyl	2022/04/08	105	60 - 130	93	60 - 130	94	%				
7924364	Moisture	2022/04/06							0.87	20		
7924825	Benzene	2022/04/06	101	50 - 140	107	50 - 140	<0.020	ug/g	NC	50		
7924825	Ethylbenzene	2022/04/06	111	50 - 140	114	50 - 140	<0.020	ug/g	NC	50		
7924825	F1 (C6-C10) - BTEX	2022/04/06					<10	ug/g	NC	30		
7924825	F1 (C6-C10)	2022/04/06	82	60 - 140	89	80 - 120	<10	ug/g	NC	30		
7924825	o-Xylene	2022/04/06	105	50 - 140	109	50 - 140	<0.020	ug/g	NC	50		
7924825	p+m-Xylene	2022/04/06	104	50 - 140	108	50 - 140	<0.040	ug/g	NC	50		
7924825	Toluene	2022/04/06	94	50 - 140	98	50 - 140	<0.020	ug/g	NC	50		
7924825	Total Xylenes	2022/04/06					<0.040	ug/g	NC	50		
7926783	WAD Cyanide (Free)	2022/04/08	86	75 - 125	94	80 - 120	<0.01	ug/g	28	35		
7926921	Chromium (VI)	2022/04/08	79	70 - 130	86	80 - 120	<0.18	ug/g	NC	35		
7927388	Available (CaCl2) pH	2022/04/07			100	97 - 103			0.43	N/A		
7928072	Hot Water Ext. Boron (B)	2022/04/08	106	75 - 125	101	75 - 125	<0.050	ug/g	NC	40		
7928074	Acid Extractable Antimony (Sb)	2022/04/08	80	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7928074	Acid Extractable Arsenic (As)	2022/04/08	95	75 - 125	96	80 - 120	<1.0	ug/g	1.1	30		
7928074	Acid Extractable Barium (Ba)	2022/04/08	NC	75 - 125	101	80 - 120	<0.50	ug/g	0.85	30		
7928074	Acid Extractable Beryllium (Be)	2022/04/08	101	75 - 125	99	80 - 120	<0.20	ug/g	1.7	30		
7928074	Acid Extractable Boron (B)	2022/04/08	81	75 - 125	96	80 - 120	<5.0	ug/g	NC	30		
7928074	Acid Extractable Cadmium (Cd)	2022/04/08	97	75 - 125	95	80 - 120	<0.10	ug/g	NC	30		
7928074	Acid Extractable Chromium (Cr)	2022/04/08	NC	75 - 125	98	80 - 120	<1.0	ug/g	0.62	30		
7928074	Acid Extractable Cobalt (Co)	2022/04/08	95	75 - 125	101	80 - 120	<0.10	ug/g	2.4	30		
7928074	Acid Extractable Copper (Cu)	2022/04/08	NC	75 - 125	97	80 - 120	<0.50	ug/g	0.16	30		
7928074	Acid Extractable Lead (Pb)	2022/04/08	101	75 - 125	100	80 - 120	<1.0	ug/g	2.4	30		
7928074	Acid Extractable Mercury (Hg)	2022/04/08	83	75 - 125	83	80 - 120	<0.050	ug/g	NC	30		
7928074	Acid Extractable Molybdenum (Mo)	2022/04/08	98	75 - 125	99	80 - 120	<0.50	ug/g	18	30		
7928074	Acid Extractable Nickel (Ni)	2022/04/08	NC	75 - 125	98	80 - 120	<0.50	ug/g	2.2	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7928074	Acid Extractable Selenium (Se)	2022/04/08	95	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7928074	Acid Extractable Silver (Ag)	2022/04/08	101	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7928074	Acid Extractable Thallium (Tl)	2022/04/08	100	75 - 125	101	80 - 120	<0.050	ug/g	7.4	30		
7928074	Acid Extractable Uranium (U)	2022/04/08	103	75 - 125	101	80 - 120	<0.050	ug/g	0.76	30		
7928074	Acid Extractable Vanadium (V)	2022/04/08	NC	75 - 125	98	80 - 120	<5.0	ug/g	1.4	30		
7928074	Acid Extractable Zinc (Zn)	2022/04/08	NC	75 - 125	95	80 - 120	<5.0	ug/g	0.57	30		
7929277	F2 (C10-C16 Hydrocarbons)	2022/04/08	113	60 - 130	100	80 - 120	<10	ug/g	NC	30		
7929277	F3 (C16-C34 Hydrocarbons)	2022/04/08	112	60 - 130	100	80 - 120	<50	ug/g	NC	30		
7929277	F4 (C34-C50 Hydrocarbons)	2022/04/08	108	60 - 130	96	80 - 120	<50	ug/g	NC	30		
7929282	Hot Water Ext. Boron (B)	2022/04/08	98	75 - 125	98	75 - 125	<0.050	ug/g	1.4	40		
7929605	Conductivity	2022/04/08			100	90 - 110	<0.002	mS/cm	0.43	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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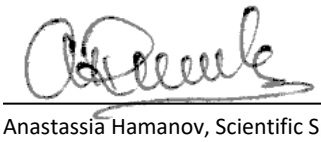
Bureau Veritas Job #: C289705
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

Page 1 of 1

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30086 Parkland Fuel Corporation~~ Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd~~	Quotation #: ~~B93691~~ C21481	BV Labs Job #:
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~ Roy Yu	P.O. #:	Bottle Order #: 844283
Address: ~~1800, 240-4th Ave SW~~ 90 Scarsdale Rd,	Address: ~~65 Nebo Road~~	Project: CT3243.01	COC #: C#844283-08-01
~~Calgary AB T2P 4H4~~ Toronto, ON,	~~Hamilton ON L8W 2C8~~	Project Name: Grand Niagara GolfRSC 3	Project Manager: Kudrat Bajwa
Tel: ~~(403) 507-2500~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 Fax:	Site #: ~~BU-26535~~	
Email: ~~kristen.burmeister@bvlabs.com~~ accounts.payable@terrapex.com	Email: g.lussier@terrapex.com R.Yu@terrapex.com	Sampled By: AP	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? Y

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED: O.Reg 153 PHCs, BTEX/F1-F4	Metals and Inorganics	EC/SAR	# of Bottles	Comments
1		3-BH213-1	March 30/22	11:15	S	N	X	X		3	
2		3-BH213-4		11:25				X	X	1	
3		3-BH213-94		11:25				X	X	1	
4		3-BH213-3		11:30						4	ON HOLD
5		3-BH214-1		12:00			X	X		3	
6		3-BH214-4		12:09				X	X	1	
7		3-BH214-3		12:14							ON HOLD
8											
9											
10											

05-Apr-22 15:28
Kudrat Bajwa
C289705
ENV-925
URE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak AP	22/04/04	6:30	Roy Mclean	2022/04/05	1528	0

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 2 | 3 | 2 | Custody Seal Present: Yes — | Intact: Yes —

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

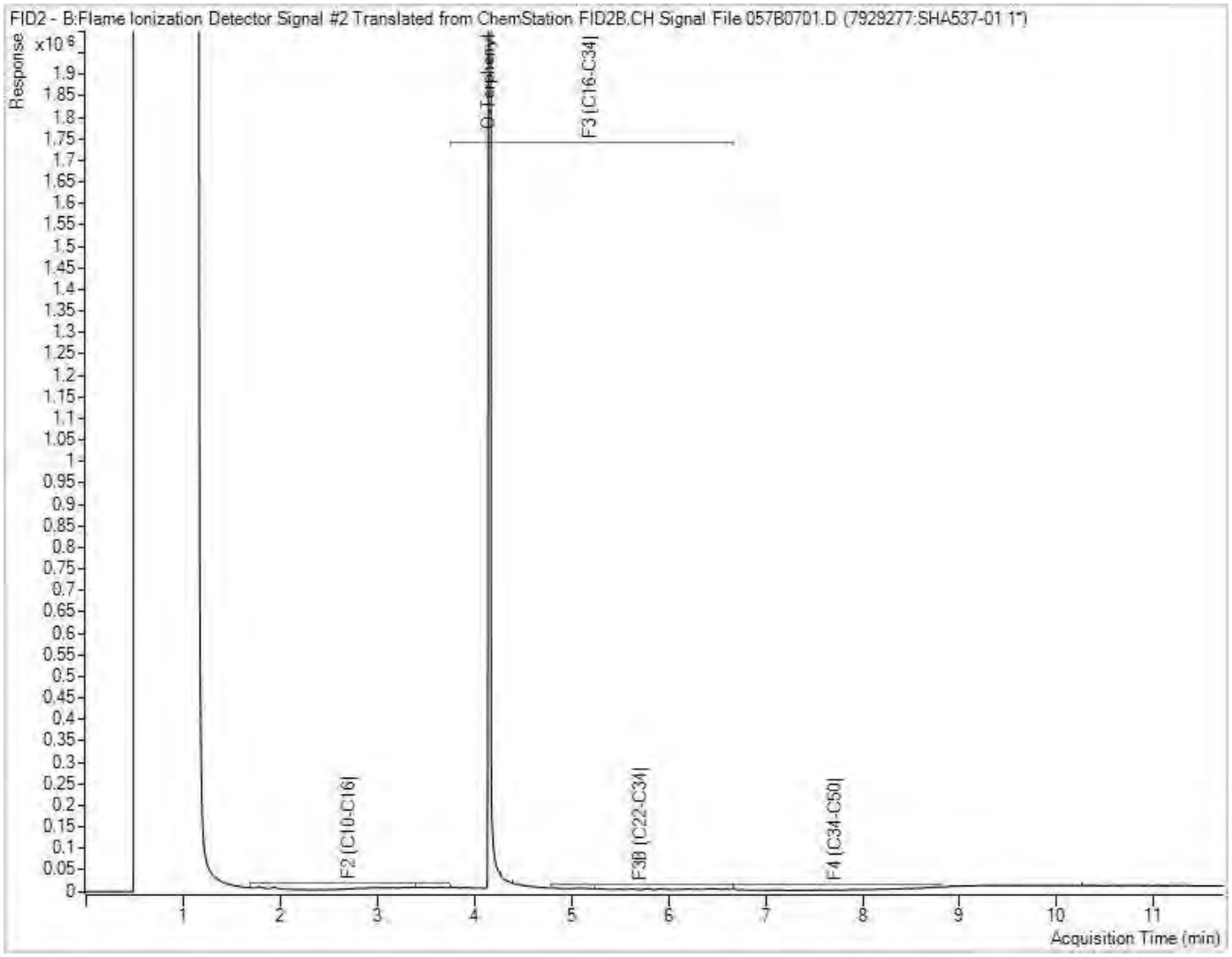
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C289705
Report Date: 2022/04/27
Bureau Veritas Sample: SHA537

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-BH213-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

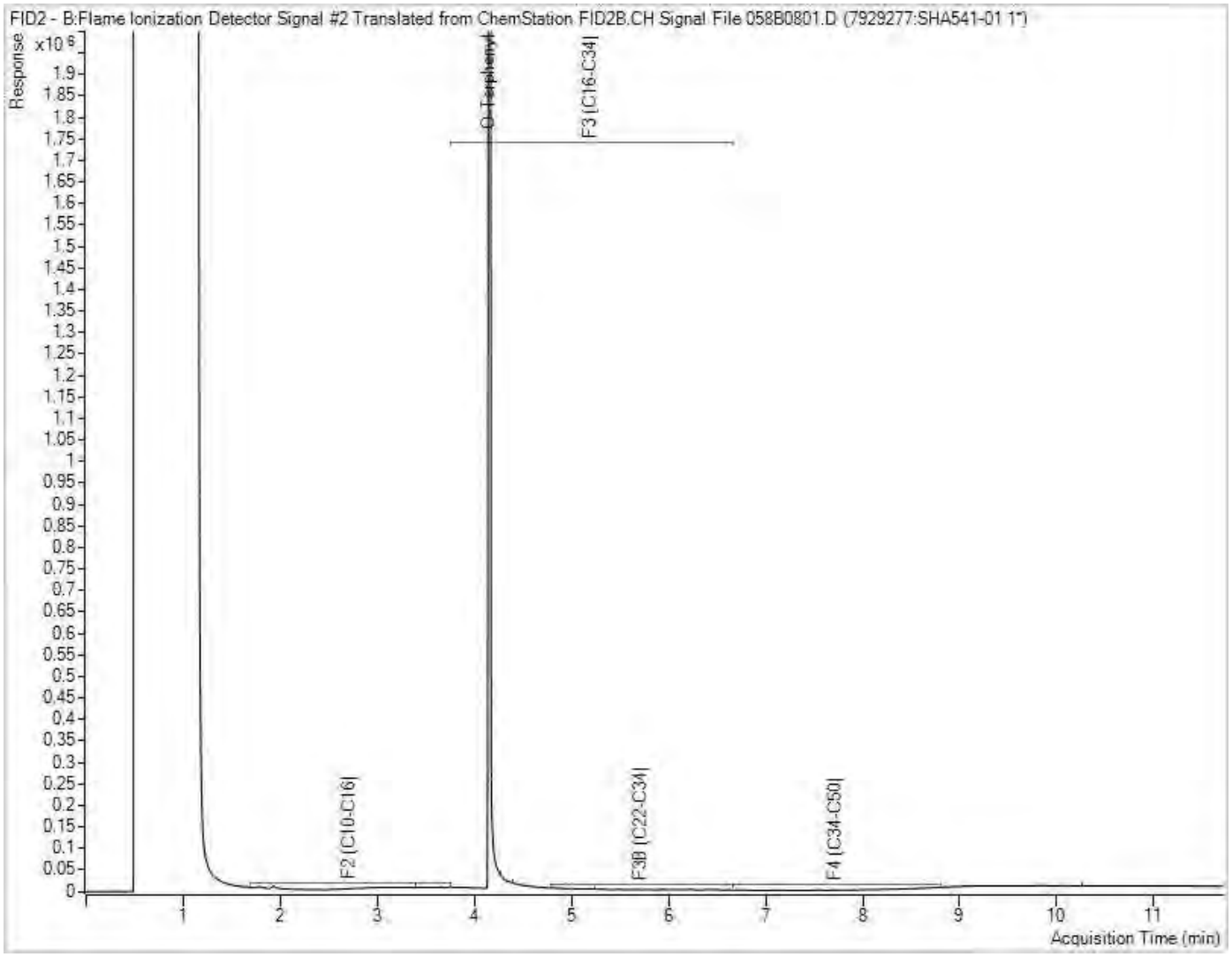


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289705
Report Date: 2022/04/27
Bureau Veritas Sample: SHA541

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-BH214-1

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.

Your Project #: CT3243.01
Site#: RSC 3
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101428
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296102
Received: 2022/04/11, 17:30

Sample Matrix: Soil
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	2	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	4	2022/04/14	2022/04/15	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/04/14	2022/04/18	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	5	N/A	2022/04/14		EPA 8260C m
Free (WAD) Cyanide	1	2022/04/14	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	4	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Conductivity	11	2022/04/14	2022/04/14	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/14	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	4	2022/04/16	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	4	N/A	2022/04/17	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	9	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/14	2022/04/18	CAM SOP-00447	EPA 6020B m
Moisture	14	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	2	2022/04/13	2022/04/14	CAM SOP-00307	SW846 8081, 8082
OC Pesticides (Selected) & PCB (4)	2	2022/04/14	2022/04/15	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/13	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	2	2022/04/14	2022/04/15	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	5	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	11	N/A	2022/04/18	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	5	N/A	2022/04/14	CAM SOP-00230	EPA 8260C m

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.

Your Project #: CT3243.01
Site#: RSC 3
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101428
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296102
Received: 2022/04/11, 17:30

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.

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL133			SIL134			SIL135		
Sampling Date		2022/04/06 09:00			2022/04/06 09:15			2022/04/06 09:30		
COC Number		na			na			na		
	UNITS	3-BH227-1	RDL	QC Batch	3-BH227-2B	RDL	QC Batch	3-MW228-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.60		7935288	1.2		7935288	0.29		7935288
Inorganics										
Conductivity	mS/cm	2.0	0.002	7940618	1.1	0.002	7940618	0.45	0.002	7940618
Moisture	%				19	1.0	7936126			
Available (CaCl2) pH	pH	7.68		7944027	7.69		7944011	7.74		7944027
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944061	<0.01	0.01	7941220	<0.01	0.01	7944061
Chromium (VI)	ug/g	<0.18	0.18	7943480	<0.18	0.18	7940769	<0.18	0.18	7943480
Metals										
Hot Water Ext. Boron (B)	ug/g	0.20	0.050	7940537	0.076	0.050	7940537	0.070	0.050	7940537
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7940870	0.22	0.20	7940870	0.24	0.20	7940870
Acid Extractable Arsenic (As)	ug/g	5.2	1.0	7940870	5.8	1.0	7940870	7.2	1.0	7940870
Acid Extractable Barium (Ba)	ug/g	130	0.50	7940870	110	0.50	7940870	150	0.50	7940870
Acid Extractable Beryllium (Be)	ug/g	0.73	0.20	7940870	0.83	0.20	7940870	1.2	0.20	7940870
Acid Extractable Boron (B)	ug/g	9.2	5.0	7940870	8.1	5.0	7940870	6.4	5.0	7940870
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7940870	<0.10	0.10	7940870	0.11	0.10	7940870
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7940870	23	1.0	7940870	27	1.0	7940870
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7940870	12	0.10	7940870	18	0.10	7940870
Acid Extractable Copper (Cu)	ug/g	24	0.50	7940870	27	0.50	7940870	25	0.50	7940870
Acid Extractable Lead (Pb)	ug/g	9.1	1.0	7940870	10	1.0	7940870	13	1.0	7940870
Acid Extractable Molybdenum (Mo)	ug/g	0.65	0.50	7940870	0.61	0.50	7940870	0.77	0.50	7940870
Acid Extractable Nickel (Ni)	ug/g	30	0.50	7940870	27	0.50	7940870	36	0.50	7940870
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870	<0.50	0.50	7940870	<0.50	0.50	7940870
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870	<0.20	0.20	7940870	<0.20	0.20	7940870
Acid Extractable Thallium (Tl)	ug/g	0.14	0.050	7940870	0.18	0.050	7940870	0.17	0.050	7940870
Acid Extractable Uranium (U)	ug/g	0.74	0.050	7940870	0.95	0.050	7940870	0.66	0.050	7940870
Acid Extractable Vanadium (V)	ug/g	32	5.0	7940870	36	5.0	7940870	41	5.0	7940870
Acid Extractable Zinc (Zn)	ug/g	60	5.0	7940870	59	5.0	7940870	74	5.0	7940870
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870	<0.050	0.050	7940870	<0.050	0.050	7940870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL146		SIL148			SIL148		
Sampling Date		2022/04/06 16:30		2022/04/07 08:30			2022/04/07 08:30		
COC Number		na		na			na		
	UNITS	3-MW230-1A	QC Batch	3-MW231-1A	RDL	QC Batch	3-MW231-1A Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.61	7935288	0.90		7935288			
Inorganics									
Conductivity	mS/cm	0.13	7940618	0.59	0.002	7940618	0.59	0.002	7940618
Available (CaCl2) pH	pH	7.87	7944027	7.81		7944027			
WAD Cyanide (Free)	ug/g	<0.01	7944061	<0.01	0.01	7944061			
Chromium (VI)	ug/g	<0.18	7943480	<0.18	0.18	7943480			
Metals									
Hot Water Ext. Boron (B)	ug/g	0.17	7940537	0.054	0.050	7941115			
Acid Extractable Antimony (Sb)	ug/g	0.25	7940870	<0.20	0.20	7940870			
Acid Extractable Arsenic (As)	ug/g	5.8	7940870	4.9	1.0	7940870			
Acid Extractable Barium (Ba)	ug/g	150	7940870	140	0.50	7940870			
Acid Extractable Beryllium (Be)	ug/g	1.3	7940870	0.99	0.20	7940870			
Acid Extractable Boron (B)	ug/g	8.8	7940870	11	5.0	7940870			
Acid Extractable Cadmium (Cd)	ug/g	0.14	7940870	<0.10	0.10	7940870			
Acid Extractable Chromium (Cr)	ug/g	33	7940870	30	1.0	7940870			
Acid Extractable Cobalt (Co)	ug/g	21	7940870	15	0.10	7940870			
Acid Extractable Copper (Cu)	ug/g	27	7940870	24	0.50	7940870			
Acid Extractable Lead (Pb)	ug/g	13	7940870	11	1.0	7940870			
Acid Extractable Molybdenum (Mo)	ug/g	0.67	7940870	0.55	0.50	7940870			
Acid Extractable Nickel (Ni)	ug/g	40	7940870	33	0.50	7940870			
Acid Extractable Selenium (Se)	ug/g	<0.50	7940870	<0.50	0.50	7940870			
Acid Extractable Silver (Ag)	ug/g	<0.20	7940870	<0.20	0.20	7940870			
Acid Extractable Thallium (Tl)	ug/g	0.20	7940870	0.20	0.050	7940870			
Acid Extractable Uranium (U)	ug/g	1.1	7940870	0.81	0.050	7940870			
Acid Extractable Vanadium (V)	ug/g	45	7940870	40	5.0	7940870			
Acid Extractable Zinc (Zn)	ug/g	80	7940870	70	5.0	7940870			
Acid Extractable Mercury (Hg)	ug/g	<0.050	7940870	<0.050	0.050	7940870			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL142	SIL143			SIL146	SIL148		
Sampling Date		2022/04/06 12:30	2022/04/06 12:30			2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na			na	na		
	UNITS	3-MW229-1A	3-MW229-91A	RDL	QC Batch	3-MW230-1A	3-MW231-1A	RDL	QC Batch
Inorganics									
Moisture	%	19	18	1.0	7936126				
Calculated Parameters									
Chlordane (Total)	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	<0.015	0.015	7935929	<0.015	<0.015	0.015	7935929
Pesticides & Herbicides									
Aldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
a-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
g-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Dieldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Lindane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Heptachlor	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Heptachlor epoxide	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachlorobenzene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachloroethane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Methoxychlor	ug/g	<0.0050	<0.0050	0.0050	7938861	<0.0050	<0.0050	0.0050	7941505
Aroclor 1242	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Aroclor 1248	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL142	SIL143			SIL146	SIL148		
Sampling Date		2022/04/06 12:30	2022/04/06 12:30			2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na			na	na		
	UNITS	3-MW229-1A	3-MW229-91A	RDL	QC Batch	3-MW230-1A	3-MW231-1A	RDL	QC Batch
Aroclor 1254	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Aroclor 1260	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	87	71		7938861	89	79		7941505
Decachlorobiphenyl	%	82	89		7938861	90	82		7941505

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIL136	SIL137		
Sampling Date		2022/04/06 09:30	2022/04/06 09:30		
COC Number		na	na		
	UNITS	3-MW228-1B	3-MW228-91B	RDL	QC Batch
Inorganics					
Moisture	%	17	21	1.0	7935989
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	7935285
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	7940176
Anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Chrysene	ug/g	<0.0050	<0.0050	0.0050	7940176
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Fluorene	ug/g	<0.0050	<0.0050	0.0050	7940176
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Surrogate Recovery (%)					
D10-Anthracene	%	99	93		7940176
D14-Terphenyl (FS)	%	107	102		7940176
D8-Acenaphthylene	%	91	84		7940176

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL133	SIL135	SIL146	SIL148		
Sampling Date		2022/04/06 09:00	2022/04/06 09:30	2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na	na	na		
	UNITS	3-BH227-1	3-MW228-1A	3-MW230-1A	3-MW231-1A	RDL	QC Batch
Inorganics							
Moisture	%	18	18	19	21	1.0	7935989
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	7943248
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	7943248
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	7943248
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	7943248
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	10	7946062
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	7946062
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	7946062
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		7946062
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	112	112	113	113		7943248
4-Bromofluorobenzene	%	83	80	73	76		7943248
D10-o-Xylene	%	122	113	116	117		7943248
D4-1,2-Dichloroethane	%	107	106	106	108		7943248
o-Terphenyl	%	93	94	93	92		7946062

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL140	SIL141	SIL145			SIL145		
Sampling Date		2022/04/06 11:00	2022/04/06 11:00	2022/04/06 13:30			2022/04/06 13:30		
COC Number		na	na	na			na		
	UNITS	3-MW228-7B	3-MW228-97B	3-MW229-7A	RDL	QC Batch	3-MW229-7A Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	23	24	19	1.0	7935989			
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7935286			
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	7936435			
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	7936435			
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	7936435			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7936435			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	7936435			
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Hexane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	7936435			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL140	SIL141	SIL145			SIL145		
Sampling Date		2022/04/06 11:00	2022/04/06 11:00	2022/04/06 13:30			2022/04/06 13:30		
COC Number		na	na	na			na		
	UNITS	3-MW228-7B	3-MW228-97B	3-MW229-7A	RDL	QC Batch	3-MW229-7A Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	7936435			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	7936435			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	7936435			
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
F1 (C6-C10)	ug/g	<10	<10	<10	10	7936435			
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7936435			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7946062	<10	10	7946062
F3 (C16-C34 Hydrocarbons)	ug/g	64	<50	<50	50	7946062	<50	50	7946062
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7946062	<50	50	7946062
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7946062	Yes		7946062
Surrogate Recovery (%)									
o-Terphenyl	%	93	91	87		7946062	86		7946062
4-Bromofluorobenzene	%	95	95	95		7936435			
D10-o-Xylene	%	96	91	89		7936435			
D4-1,2-Dichloroethane	%	103	104	104		7936435			
D8-Toluene	%	102	102	102		7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL150	SIL151			SIL151		
Sampling Date		2022/04/07 09:20	2022/04/07 09:20			2022/04/07 09:20		
COC Number		na	na			na		
	UNITS	3-MW231-6A	3-MW231-96A	RDL	QC Batch	3-MW231-96A Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	27	23	1.0	7935989	24	1.0	7935989
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7935286			
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7936435			
Benzene	ug/g	<0.0060	<0.0060	0.0060	7936435			
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7936435			
Bromoform	ug/g	<0.040	<0.040	0.040	7936435			
Bromomethane	ug/g	<0.040	<0.040	0.040	7936435			
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7936435			
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
Chloroform	ug/g	<0.040	<0.040	0.040	7936435			
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7936435			
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7936435			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7936435			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7936435			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7936435			
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7936435			
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7936435			
Hexane	ug/g	<0.040	<0.040	0.040	7936435			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7936435			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL150	SIL151			SIL151		
Sampling Date		2022/04/07 09:20	2022/04/07 09:20			2022/04/07 09:20		
COC Number		na	na			na		
	UNITS	**3-MW231-6A**	**3-MW231-96A**	**RDL**	**QC Batch**	**3-MW231-96A Lab-Dup**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7936435			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7936435			
Styrene	ug/g	<0.040	<0.040	0.040	7936435			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7936435			
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
Toluene	ug/g	<0.020	<0.020	0.020	7936435			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7936435			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7936435			
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7936435			
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7936435			
o-Xylene	ug/g	<0.020	<0.020	0.020	7936435			
Total Xylenes	ug/g	<0.020	<0.020	0.020	7936435			
F1 (C6-C10)	ug/g	<10	<10	10	7936435			
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7936435			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7946062			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7946062			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7946062			
Reached Baseline at C50	ug/g	Yes	Yes		7946062			
Surrogate Recovery (%)								
o-Terphenyl	%	92	93		7946062			
4-Bromofluorobenzene	%	95	94		7936435			
D10-o-Xylene	%	91	93		7936435			
D4-1,2-Dichloroethane	%	104	104		7936435			
D8-Toluene	%	103	103		7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296102
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL138	SIL139			SIL140			SIL142		
Sampling Date		2022/04/06 10:30	2022/04/06 10:30			2022/04/06 11:00			2022/04/06 12:30		
COC Number		na	na			na			na		
	UNITS	3-MW228-3B	3-MW228-93B	RDL	QC Batch	3-MW228-7B	RDL	QC Batch	3-MW229-1A	RDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.89	0.91		7935288				0.43		7935288
Inorganics											
Conductivity	mS/cm	0.72	0.69	0.002	7940618				1.6	0.002	7940618
Miscellaneous Parameters											
Grain Size	%					FINE	N/A	7952276			
Sieve - #200 (<0.075mm)	%					100	1	7952276			
Sieve - #200 (>0.075mm)	%					<1	1	7952276			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SIL144			SIL147			SIL149		
Sampling Date		2022/04/06 13:00			2022/04/06 16:40			2022/04/07 08:40		
COC Number		na			na			na		
	UNITS	3-MW229-3A	RDL	QC Batch	3-MW230-2B	RDL	QC Batch	3-MW231-2	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.60		7935288	0.46		7935288	0.95		7935288
Inorganics										
Conductivity	mS/cm	0.97	0.002	7940618	3.0	0.002	7940618	0.68	0.002	7940618
Miscellaneous Parameters										
Grain Size	%				FINE	N/A	7952276			
Sieve - #200 (<0.075mm)	%				99	1	7952276			
Sieve - #200 (>0.075mm)	%				<1	1	7952276			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: SIL133 **Collected:** 2022/04/06
Sample ID: 3-BH227-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL134 **Collected:** 2022/04/06
Sample ID: 3-BH227-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7941220	2022/04/14	2022/04/18	Nimarta Singh
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7940769	2022/04/14	2022/04/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944011	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL135 **Collected:** 2022/04/06
Sample ID: 3-MW228-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIL136 **Collected:** 2022/04/06
Sample ID: 3-MW228-1B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7940176	2022/04/14	2022/04/15	Mitesh Raj

Bureau Veritas ID: SIL137 **Collected:** 2022/04/06
Sample ID: 3-MW228-91B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7940176	2022/04/14	2022/04/15	Mitesh Raj

Bureau Veritas ID: SIL138 **Collected:** 2022/04/06
Sample ID: 3-MW228-3B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL139 **Collected:** 2022/04/06
Sample ID: 3-MW228-93B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL140 **Collected:** 2022/04/06
Sample ID: 3-MW228-7B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

TEST SUMMARY

Bureau Veritas ID: SIL141 **Collected:** 2022/04/06
Sample ID: 3-MW228-97B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas ID: SIL142 **Collected:** 2022/04/06
Sample ID: 3-MW229-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL143 **Collected:** 2022/04/06
Sample ID: 3-MW229-91A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIL144 **Collected:** 2022/04/06
Sample ID: 3-MW229-3A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL145 **Collected:** 2022/04/06
Sample ID: 3-MW229-7A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

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TEST SUMMARY

Bureau Veritas ID: SIL145 Dup
Sample ID: 3-MW229-7A
Matrix: Soil
Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam

Bureau Veritas ID: SIL146
Sample ID: 3-MW230-1A
Matrix: Soil
Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7941505	2022/04/14	2022/04/15	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL147
Sample ID: 3-MW230-2B
Matrix: Soil
Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL148
Sample ID: 3-MW231-1A
Matrix: Soil
Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7941115	2022/04/14	2022/04/18	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7941505	2022/04/14	2022/04/15	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIL148 **Collected:** 2022/04/07
Sample ID: 3-MW231-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL148 Dup **Collected:** 2022/04/07
Sample ID: 3-MW231-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran

Bureau Veritas ID: SIL149 **Collected:** 2022/04/07
Sample ID: 3-MW231-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL150 **Collected:** 2022/04/07
Sample ID: 3-MW231-6A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas ID: SIL151 **Collected:** 2022/04/07
Sample ID: 3-MW231-96A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas ID: SIL151 Dup **Collected:** 2022/04/07
Sample ID: 3-MW231-96A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel

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GENERAL COMMENTS

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

Package 1	2.7°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 3-MW228-7B and 3-MW230-2B as per client.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7936435	4-Bromofluorobenzene	2022/04/13	97	60 - 140	98	60 - 140	97	%				
7936435	D10-o-Xylene	2022/04/13	95	60 - 130	97	60 - 130	90	%				
7936435	D4-1,2-Dichloroethane	2022/04/13	100	60 - 140	101	60 - 140	100	%				
7936435	D8-Toluene	2022/04/13	105	60 - 140	103	60 - 140	101	%				
7938861	2,4,5,6-Tetrachloro-m-xylene	2022/04/14	79	50 - 130	83	50 - 130	79	%				
7938861	Decachlorobiphenyl	2022/04/14	108	50 - 130	103	50 - 130	104	%				
7940176	D10-Anthracene	2022/04/14	101	50 - 130	101	50 - 130	103	%				
7940176	D14-Terphenyl (FS)	2022/04/14	109	50 - 130	109	50 - 130	111	%				
7940176	D8-Acenaphthylene	2022/04/14	92	50 - 130	93	50 - 130	93	%				
7941505	2,4,5,6-Tetrachloro-m-xylene	2022/04/15	94	50 - 130	85	50 - 130	87	%				
7941505	Decachlorobiphenyl	2022/04/15	102	50 - 130	101	50 - 130	100	%				
7943248	1,4-Difluorobenzene	2022/04/17	101	60 - 140	98	60 - 140	115	%				
7943248	4-Bromofluorobenzene	2022/04/17	96	60 - 140	101	60 - 140	72	%				
7943248	D10-o-Xylene	2022/04/17	112	60 - 140	105	60 - 140	115	%				
7943248	D4-1,2-Dichloroethane	2022/04/17	95	60 - 140	95	60 - 140	109	%				
7946062	o-Terphenyl	2022/04/19	94	60 - 130	96	60 - 130	97	%				
7935989	Moisture	2022/04/12							2.1	20		
7936126	Moisture	2022/04/12							1.0	20		
7936435	1,1,1,2-Tetrachloroethane	2022/04/13	103	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,1-Trichloroethane	2022/04/13	101	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,2,2-Tetrachloroethane	2022/04/13	89	60 - 140	88	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,2-Trichloroethane	2022/04/13	104	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1-Dichloroethane	2022/04/13	95	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1-Dichloroethylene	2022/04/13	99	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7936435	1,2-Dichlorobenzene	2022/04/13	99	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
7936435	1,2-Dichloroethane	2022/04/13	93	60 - 140	95	60 - 130	<0.049	ug/g	NC	50		
7936435	1,2-Dichloropropane	2022/04/13	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	1,3-Dichlorobenzene	2022/04/13	104	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	1,4-Dichlorobenzene	2022/04/13	118	60 - 140	116	60 - 130	<0.040	ug/g	NC	50		
7936435	Acetone (2-Propanone)	2022/04/13	89	60 - 140	89	60 - 140	<0.49	ug/g	NC	50		
7936435	Benzene	2022/04/13	92	60 - 140	93	60 - 130	<0.0060	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7936435	Bromodichloromethane	2022/04/13	100	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7936435	Bromoform	2022/04/13	99	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	Bromomethane	2022/04/13	102	60 - 140	104	60 - 140	<0.040	ug/g	NC	50		
7936435	Carbon Tetrachloride	2022/04/13	100	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	Chlorobenzene	2022/04/13	102	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	Chloroform	2022/04/13	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	cis-1,2-Dichloroethylene	2022/04/13	99	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7936435	cis-1,3-Dichloropropene	2022/04/13	92	60 - 140	98	60 - 130	<0.030	ug/g	NC	50		
7936435	Dibromochloromethane	2022/04/13	100	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7936435	Dichlorodifluoromethane (FREON 12)	2022/04/13	102	60 - 140	100	60 - 140	<0.040	ug/g	NC	50		
7936435	Ethylbenzene	2022/04/13	97	60 - 140	97	60 - 130	<0.010	ug/g	NC	50		
7936435	Ethylene Dibromide	2022/04/13	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7936435	F1 (C6-C10) - BTEX	2022/04/13					<10	ug/g	NC	30		
7936435	F1 (C6-C10)	2022/04/13	95	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7936435	Hexane	2022/04/13	101	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7936435	Methyl Ethyl Ketone (2-Butanone)	2022/04/13	90	60 - 140	91	60 - 140	<0.40	ug/g	NC	50		
7936435	Methyl Isobutyl Ketone	2022/04/13	94	60 - 140	97	60 - 130	<0.40	ug/g	NC	50		
7936435	Methyl t-butyl ether (MTBE)	2022/04/13	92	60 - 140	94	60 - 130	<0.040	ug/g	NC	50		
7936435	Methylene Chloride(Dichloromethane)	2022/04/13	96	60 - 140	97	60 - 130	<0.049	ug/g	NC	50		
7936435	o-Xylene	2022/04/13	95	60 - 140	95	60 - 130	<0.020	ug/g	NC	50		
7936435	p+m-Xylene	2022/04/13	99	60 - 140	99	60 - 130	<0.020	ug/g	NC	50		
7936435	Styrene	2022/04/13	103	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	Tetrachloroethylene	2022/04/13	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7936435	Toluene	2022/04/13	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50		
7936435	Total Xylenes	2022/04/13					<0.020	ug/g	NC	50		
7936435	trans-1,2-Dichloroethylene	2022/04/13	98	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7936435	trans-1,3-Dichloropropene	2022/04/13	99	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	Trichloroethylene	2022/04/13	104	60 - 140	106	60 - 130	<0.010	ug/g	NC	50		
7936435	Trichlorofluoromethane (FREON 11)	2022/04/13	107	60 - 140	108	60 - 130	<0.040	ug/g	NC	50		
7936435	Vinyl Chloride	2022/04/13	104	60 - 140	103	60 - 130	<0.019	ug/g	NC	50		
7938861	a-Chlordane	2022/04/14	107	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7938861	Aldrin	2022/04/14	113	50 - 130	109	50 - 130	<0.0020	ug/g	NC	40		
7938861	Aroclor 1242	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1248	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1254	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1260	2022/04/14					<0.015	ug/g				
7938861	Dieldrin	2022/04/14	124	50 - 130	125	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endosulfan I (alpha)	2022/04/14	102	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endosulfan II (beta)	2022/04/14	107	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endrin	2022/04/14	114	50 - 130	115	50 - 130	<0.0020	ug/g	NC	40		
7938861	g-Chlordane	2022/04/14	107	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7938861	Heptachlor epoxide	2022/04/14	106	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40		
7938861	Heptachlor	2022/04/14	87	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachlorobenzene	2022/04/14	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachlorobutadiene	2022/04/14	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachloroethane	2022/04/14	70	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40		
7938861	Lindane	2022/04/14	99	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40		
7938861	Methoxychlor	2022/04/14	129	50 - 130	126	50 - 130	<0.0050	ug/g	NC	40		
7938861	o,p-DDD	2022/04/14	120	50 - 130	119	50 - 130	<0.0020	ug/g	NC	40		
7938861	o,p-DDE	2022/04/14	93	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40		
7938861	o,p-DDT	2022/04/14	103	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDD	2022/04/14	119	50 - 130	117	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDE	2022/04/14	102	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDT	2022/04/14	116	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7940176	1-Methylnaphthalene	2022/04/14	104	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7940176	2-Methylnaphthalene	2022/04/14	103	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7940176	Acenaphthene	2022/04/14	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
7940176	Acenaphthylene	2022/04/14	90	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40		
7940176	Anthracene	2022/04/14	99	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(a)anthracene	2022/04/14	103	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(a)pyrene	2022/04/14	86	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(b/j)fluoranthene	2022/04/14	94	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940176	Benzo(g,h,i)perylene	2022/04/14	98	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(k)fluoranthene	2022/04/14	95	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7940176	Chrysene	2022/04/14	105	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40		
7940176	Dibenzo(a,h)anthracene	2022/04/14	94	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7940176	Fluoranthene	2022/04/14	104	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7940176	Fluorene	2022/04/14	97	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7940176	Indeno(1,2,3-cd)pyrene	2022/04/14	95	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7940176	Naphthalene	2022/04/14	91	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40		
7940176	Phenanthrene	2022/04/14	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40		
7940176	Pyrene	2022/04/14	105	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7940537	Hot Water Ext. Boron (B)	2022/04/15	103	75 - 125	94	75 - 125	<0.050	ug/g	2.7	40		
7940618	Conductivity	2022/04/14			99	90 - 110	<0.002	mS/cm	0	10		
7940769	Chromium (VI)	2022/04/18	76	70 - 130	88	80 - 120	<0.18	ug/g	NC	35		
7940870	Acid Extractable Antimony (Sb)	2022/04/19	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Arsenic (As)	2022/04/19	96	75 - 125	99	80 - 120	<1.0	ug/g	0.71	30		
7940870	Acid Extractable Barium (Ba)	2022/04/19	93	75 - 125	101	80 - 120	<0.50	ug/g	2.6	30		
7940870	Acid Extractable Beryllium (Be)	2022/04/19	97	75 - 125	99	80 - 120	<0.20	ug/g	5.1	30		
7940870	Acid Extractable Boron (B)	2022/04/19	101	75 - 125	98	80 - 120	<5.0	ug/g	0.51	30		
7940870	Acid Extractable Cadmium (Cd)	2022/04/19	95	75 - 125	99	80 - 120	<0.10	ug/g	24	30		
7940870	Acid Extractable Chromium (Cr)	2022/04/19	98	75 - 125	101	80 - 120	<1.0	ug/g	0.96	30		
7940870	Acid Extractable Cobalt (Co)	2022/04/19	95	75 - 125	101	80 - 120	<0.10	ug/g	3.2	30		
7940870	Acid Extractable Copper (Cu)	2022/04/19	99	75 - 125	97	80 - 120	<0.50	ug/g	2.7	30		
7940870	Acid Extractable Lead (Pb)	2022/04/19	95	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30		
7940870	Acid Extractable Mercury (Hg)	2022/04/19	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30		
7940870	Acid Extractable Molybdenum (Mo)	2022/04/19	98	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Nickel (Ni)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30		
7940870	Acid Extractable Selenium (Se)	2022/04/19	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Silver (Ag)	2022/04/19	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Thallium (Tl)	2022/04/19	95	75 - 125	102	80 - 120	<0.050	ug/g	14	30		
7940870	Acid Extractable Uranium (U)	2022/04/19	97	75 - 125	100	80 - 120	<0.050	ug/g	3.9	30		
7940870	Acid Extractable Vanadium (V)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	0.84	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940870	Acid Extractable Zinc (Zn)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	6.3	30		
7941115	Hot Water Ext. Boron (B)	2022/04/18	96	75 - 125	101	75 - 125	<0.050	ug/g	NC	40		
7941220	WAD Cyanide (Free)	2022/04/18	96	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7941505	a-Chlordane	2022/04/15	117	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7941505	Aldrin	2022/04/15	100	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40		
7941505	Aroclor 1242	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1248	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1254	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1260	2022/04/15					<0.015	ug/g	NC	40		
7941505	Dieldrin	2022/04/15	128	50 - 130	124	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endosulfan I (alpha)	2022/04/15	112	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endosulfan II (beta)	2022/04/15	115	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endrin	2022/04/15	121	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
7941505	g-Chlordane	2022/04/15	119	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7941505	Heptachlor epoxide	2022/04/15	121	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7941505	Heptachlor	2022/04/15	98	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachlorobenzene	2022/04/15	97	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachlorobutadiene	2022/04/15	97	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachloroethane	2022/04/15	72	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40		
7941505	Lindane	2022/04/15	108	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40		
7941505	Methoxychlor	2022/04/15	120	50 - 130	118	50 - 130	<0.0050	ug/g	NC	40		
7941505	o,p-DDD	2022/04/15	122	50 - 130	121	50 - 130	<0.0020	ug/g	NC	40		
7941505	o,p-DDE	2022/04/15	107	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40		
7941505	o,p-DDT	2022/04/15	114	50 - 130	103	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDD	2022/04/15	122	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDE	2022/04/15	106	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDT	2022/04/15	112	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7943248	Benzene	2022/04/17	99	50 - 140	98	50 - 140	<0.020	ug/g	NC	50		
7943248	Ethylbenzene	2022/04/17	115	50 - 140	108	50 - 140	<0.020	ug/g	NC	50		
7943248	F1 (C6-C10) - BTEX	2022/04/17					<10	ug/g	NC	30		
7943248	F1 (C6-C10)	2022/04/17	100	60 - 140	91	80 - 120	<10	ug/g	NC	30		

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

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7943248	o-Xylene	2022/04/17	108	50 - 140	107	50 - 140	<0.020	ug/g	NC	50		
7943248	p+m-Xylene	2022/04/17	110	50 - 140	103	50 - 140	<0.040	ug/g	NC	50		
7943248	Toluene	2022/04/17	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50		
7943248	Total Xylenes	2022/04/17					<0.040	ug/g	NC	50		
7943480	Chromium (VI)	2022/04/18	85	70 - 130	91	80 - 120	<0.18	ug/g	22	35		
7944011	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.61	N/A		
7944027	Available (CaCl2) pH	2022/04/18			100	97 - 103			1.1	N/A		
7944061	WAD Cyanide (Free)	2022/04/18	92	75 - 125	96	80 - 120	<0.01	ug/g	NC	35		
7946062	F2 (C10-C16 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<10	ug/g	NC	30		
7946062	F3 (C16-C34 Hydrocarbons)	2022/04/19	105	60 - 130	105	80 - 120	<50	ug/g	NC	30		
7946062	F4 (C34-C50 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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 (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).

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

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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

Bureau Veritas Laboratories
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CHAIN

Page 1 of 2

11-Apr-22 17:30
Kudrat Bajwa
C296102
MLM ENV-1763
C#839059-03-01
Project Manager: Ema Gitej

INVOICE TO:	
Company Name:	#4398 Terrapex Environmental Ltd
Attention:	Accounts Payable
Address:	90 Scarsdale Rd, Toronto ON M3B 2R7
Tel:	(416) 245-0011 Fax: (416) 245-0012
Email:	accounts.payable@terrapex.com

REPORT TO:	
Company Name:	#6839 Terrapex Environmental Ltd
Attention:	~~Siratha Chhan~~ Roy Yu
Address:	65 Nebo Road, Hamilton ON L8W 2C9
Tel:	(905) 632-5939 Ext: 263 Fax: ~~(905) 632-6793~~
Email:	~~S.Chhan@terrapex.com~~ R.Yu@terrapex.com

PROJECT INFORMATION:	
Quotation #:	~~C01024~~ C21481
P.O. #:	
Project:	~~CT2802.02~~ CT3243.01
Project Name:	GRAND NIAGARA GOLF
Site #:	RSC3
Sampled By:	R.A

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; O.Reg 153 VOCs by HS & F1-F4; BTEX/PHCs F1-F4 O.REG153; METALS AND INORGANICS O.REG 153; EC/SAR O.REG 153; PAHS O.REG153; OC PESTICIDES O.REG153

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	VOCs	BTEX/PHCs F1-F4	Metals and Inorganics	EC/SAR	PAHs	OC Pesticides	# of Bottles	Comments
1	✓	3-BH227-1	APRIL 6/22	9AM	SOIL	N		X	X				5	
2	✓	3-BH227-2B	↓	915Am	SOIL	↓			X				1	
3	✓	3-MW228-1A	↓	930Am	↓	↓		X	X				4	
4	✓	3-MW228-1B	↓	930Am	↓	↓					X		1	
5	✓	3-MW228-91B	↓	930Am	↓	↓					X		1	
6	✓	3-MW228-3B	↓	1030Am	↓	↓				X			1	
7	✓	3-MW228-93B	↓	1030Am	↓	↓				X			1	
8	✓	3-MW228-7B	↓	11Am	↓	↓	X						3	
9	✓	3-MW228-97B	↓	11Am	↓	↓	X						3	
10	✓	3-MW229-1A	↓	1230Pm	↓	↓				X		X	3	

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission): Date Required: Time Required: Rush Confirmation Number: (call lab for #)

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive
RAYMOND AYUEN	22/04/07	830Am	Ashlan Alkume / M/S Sukum	2022/04/11	17:30	0	

Laboratory Use Only: Temperature (°C) on Recei 1/7/0; Custody Seal Present: Yes; Intact: ✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

BV Damn

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01024~~ C 2481	BV Labs Job #:	Bottle Order #: 839290
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			
Address:	90 Scarsdale Rd	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #: C#839290-10-01	Project Manager: Ema Gitej
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF		
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	RSC 3		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	R.A.		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)?

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: (call lab for #)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

#	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 (Soil)	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 OC Pesticides (Soil)	EC/SAR (O.Reg 153)	VOCs/PHCs (F1-F4) (O.Reg 153)	# of Bottles	Comments
1	✓	3-MW229-91A	April 6/22	12:30PM	Soil	N			X			1	
2	✓	3-MW229-3A	↓	1PM	↓	↓				X		1	
3	✓	3-MW229-7A	↓	1:30PM	↓	↓					X	4	
4	✓	3-MW230-1A	↓	4:30PM	↓	↓	X	X	X			5	
5	✓	3-MW230-2B	↓	4:40PM	↓	↓				X		1	
6	✓	3-MW231-1A	April 7/22	8:30AM	↓	↓	X	X	X			5	
7	✓	3-MW231-2	↓	8:40AM	↓	↓				X		1	
8	✓	3-MW231-6A	↓	9:20AM	↓	↓					X	4	
9	✓	3-MW231-96A	↓	9:20AM	↓	↓					X	4	
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
RAYMOND HYNEN / [signature]	22/04/07	8PM	[signature] / ASHI... [signature]	2022/04/11	17:30	0	Time Sensitive; Temperature (°C) on Receipt: 1/1/0; Custody Seal Present: Yes ✓; Intact: Yes ✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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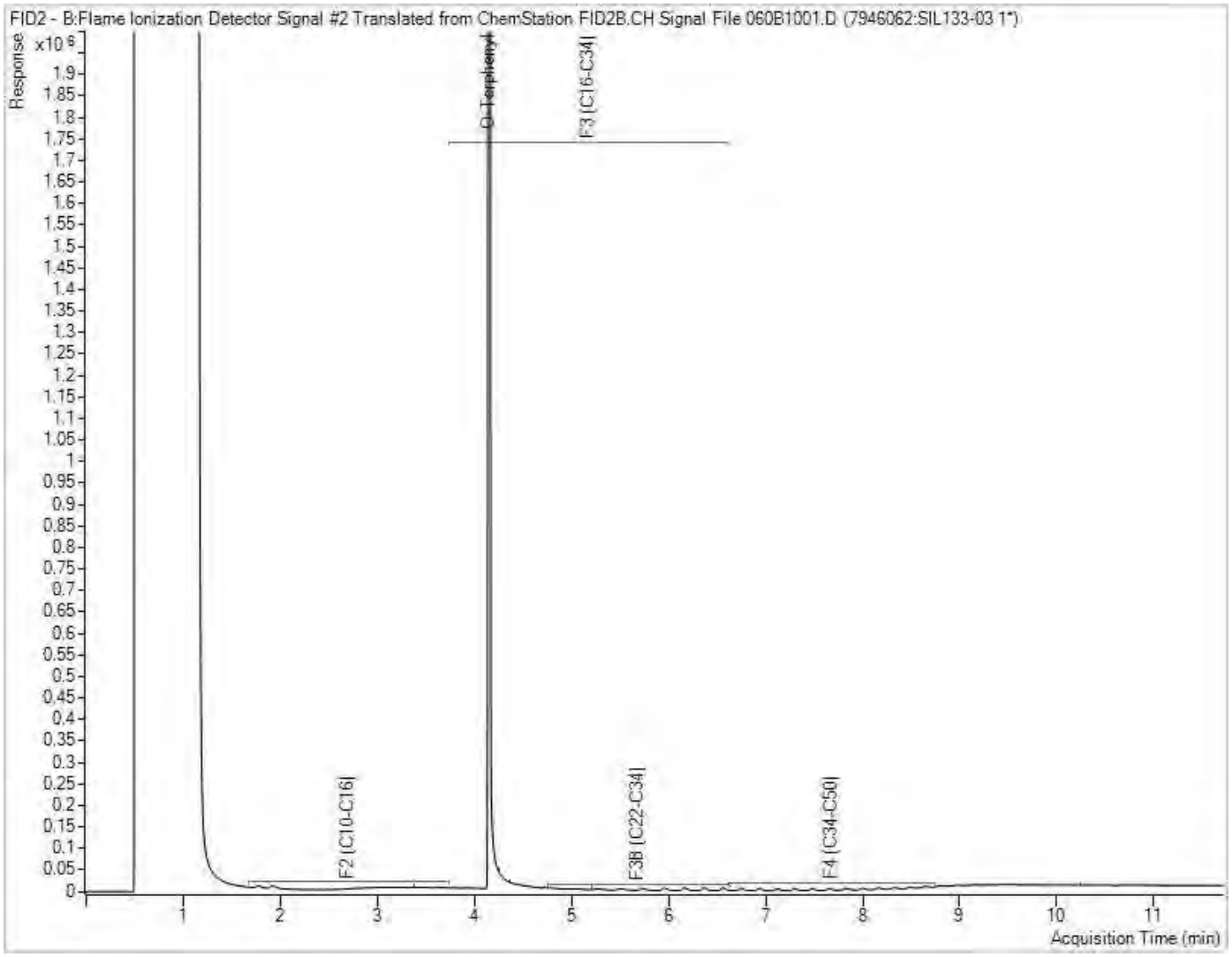
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

BV Deliver

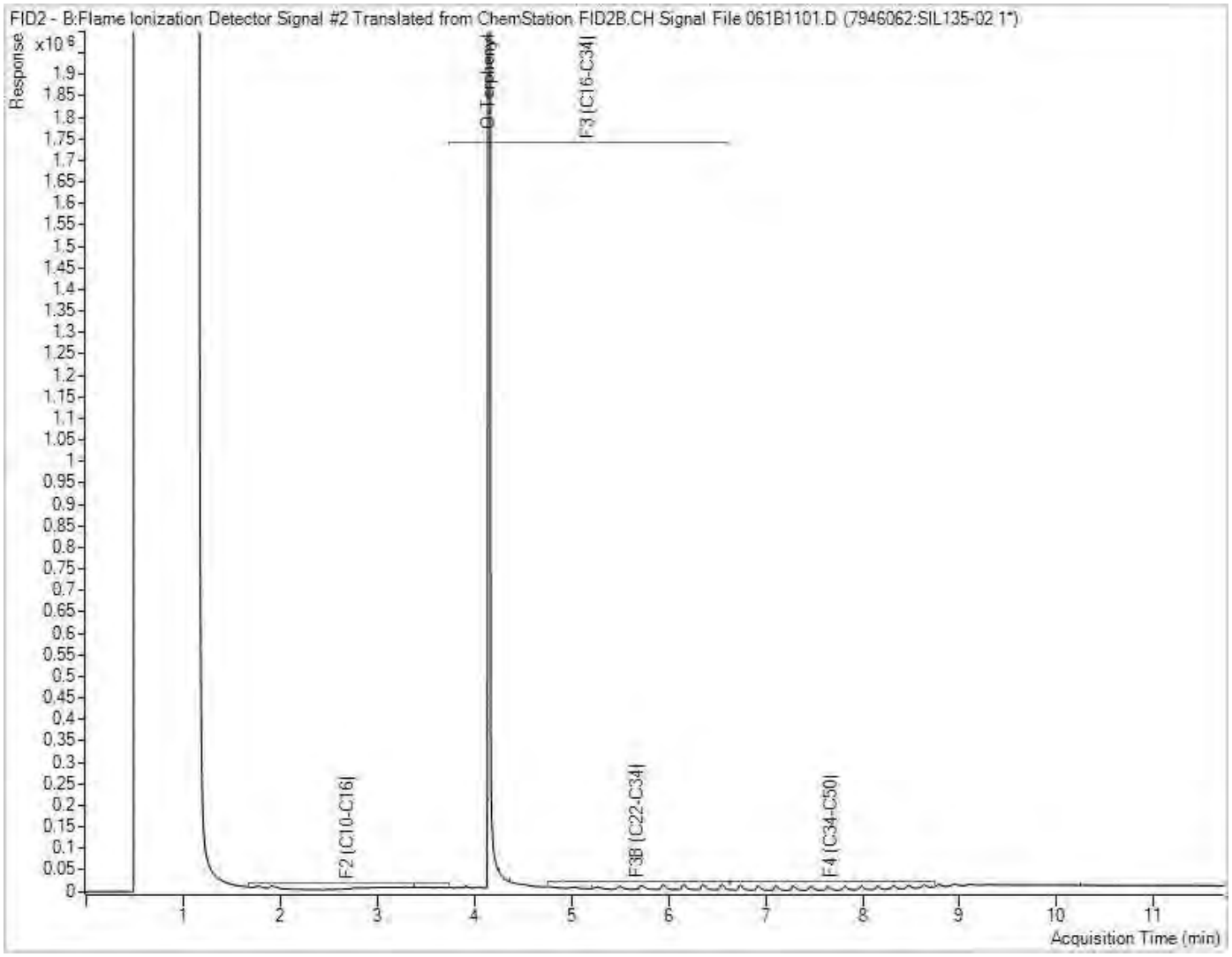
Bureau Veritas Canada (2019) Inc.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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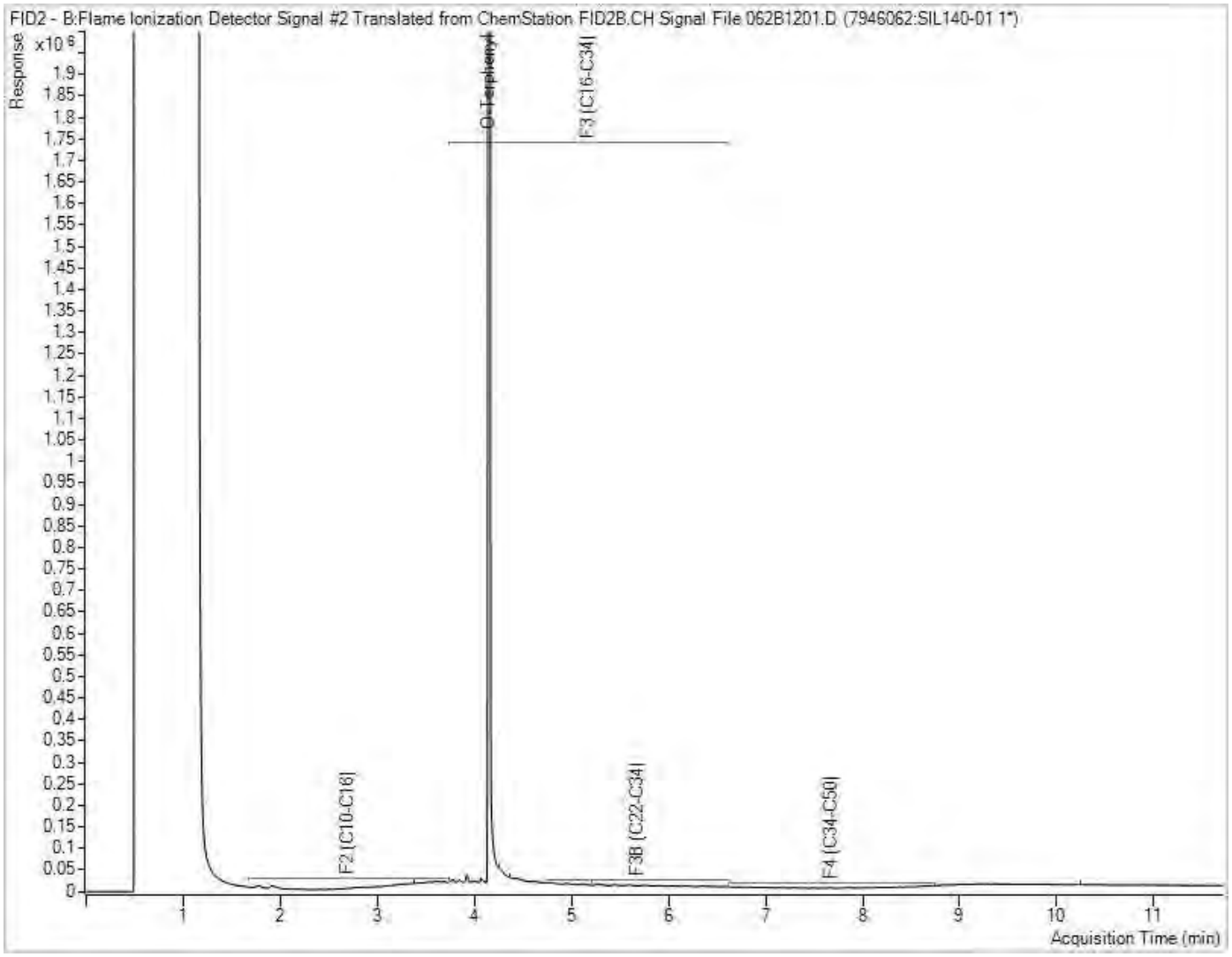
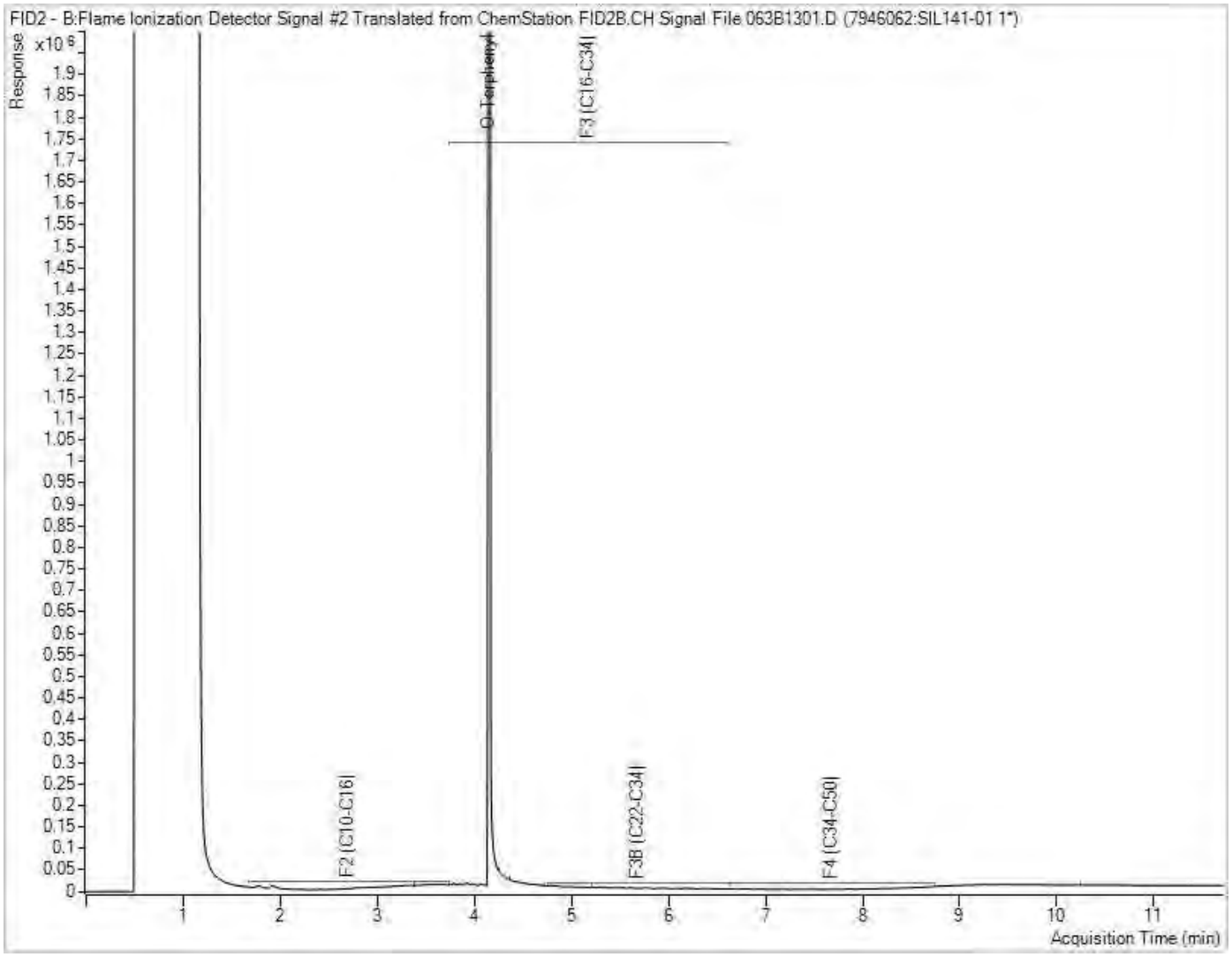
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



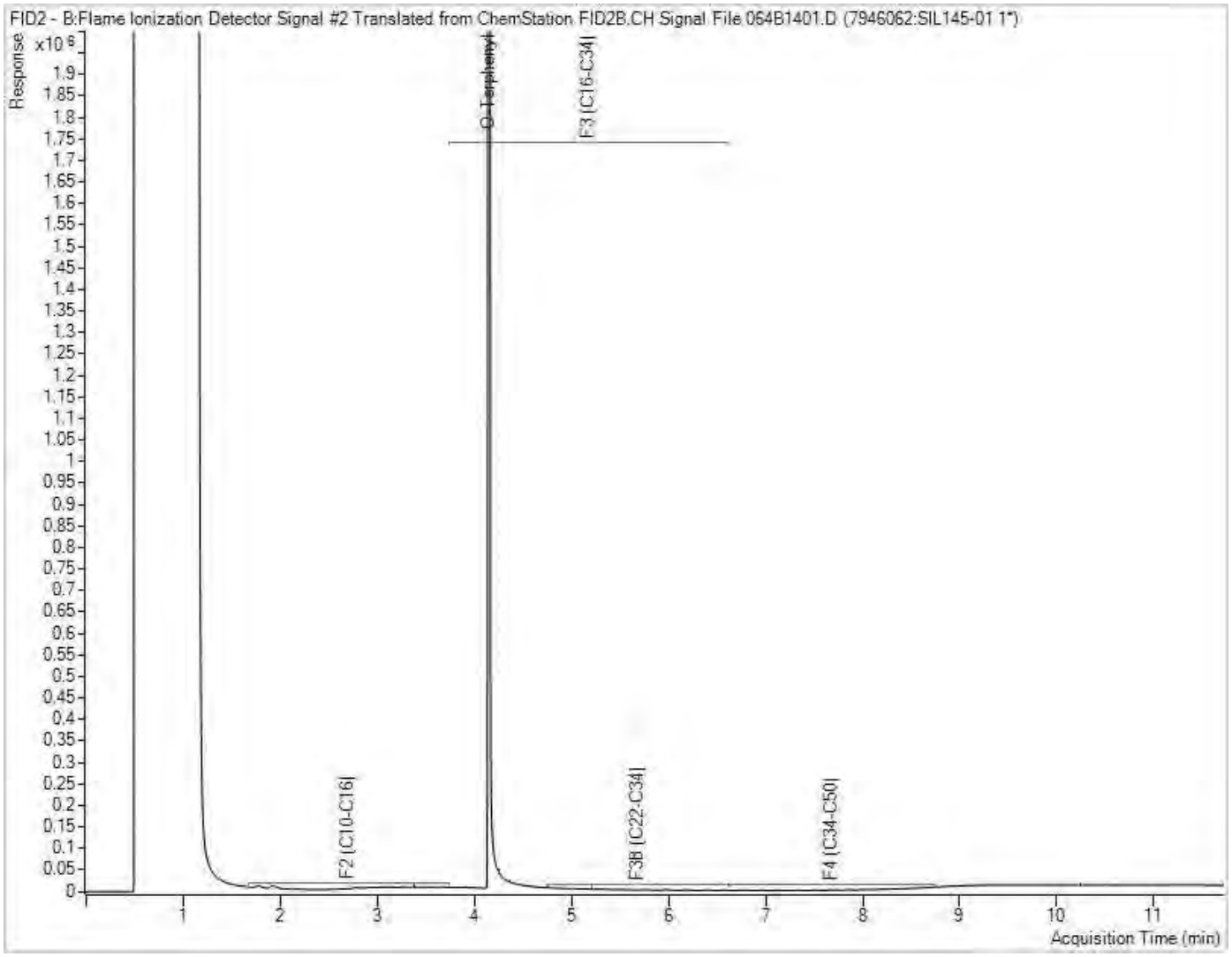
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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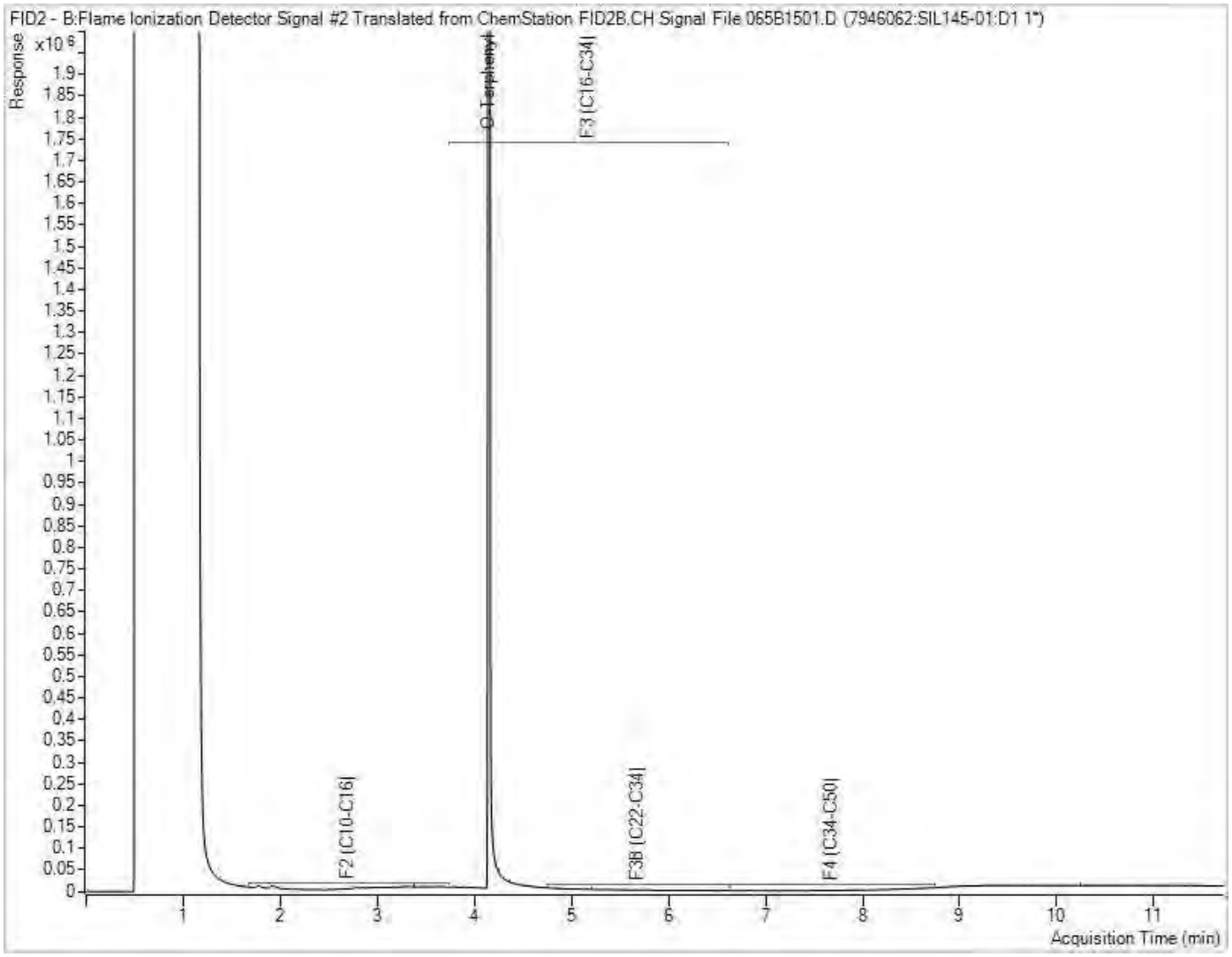
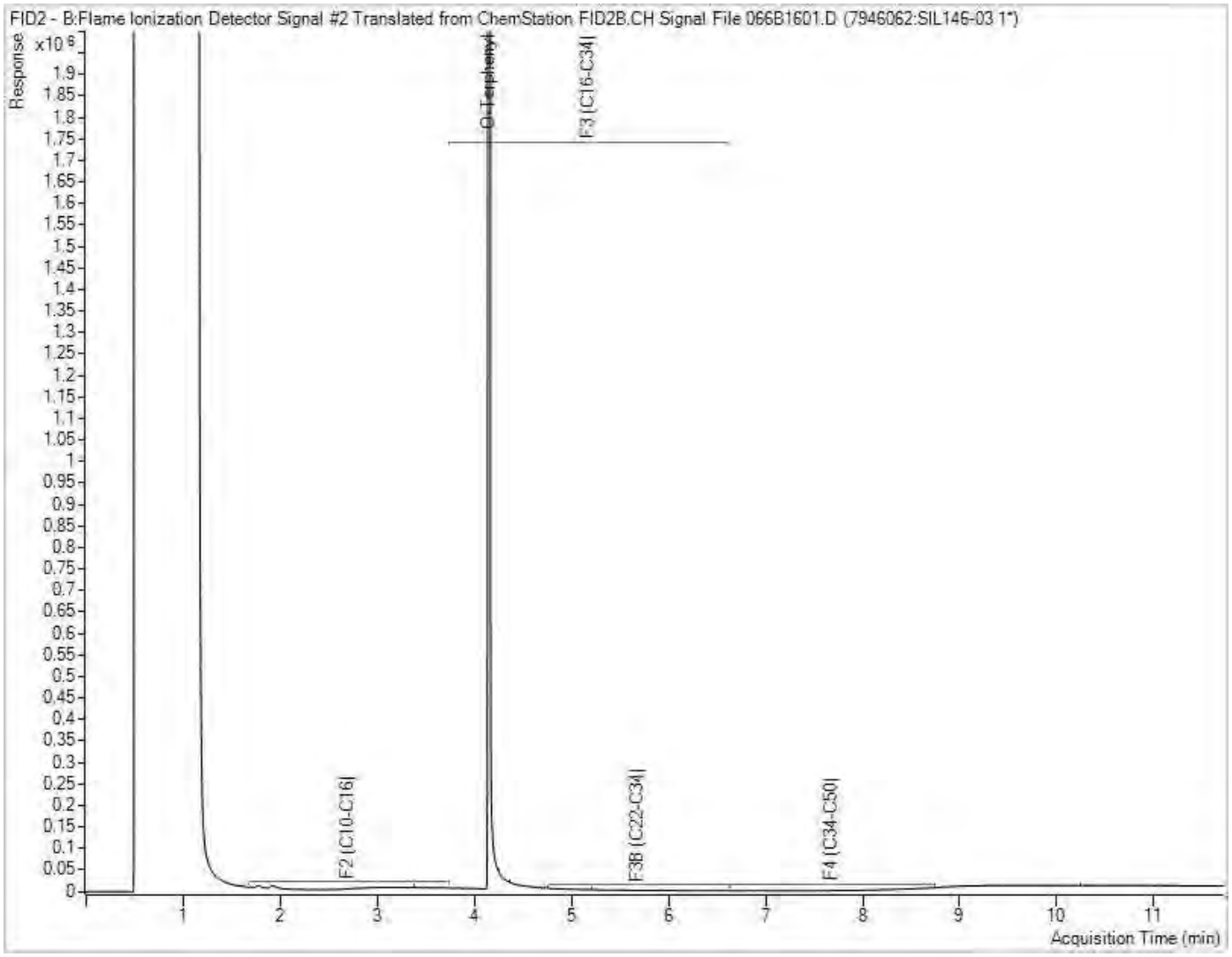
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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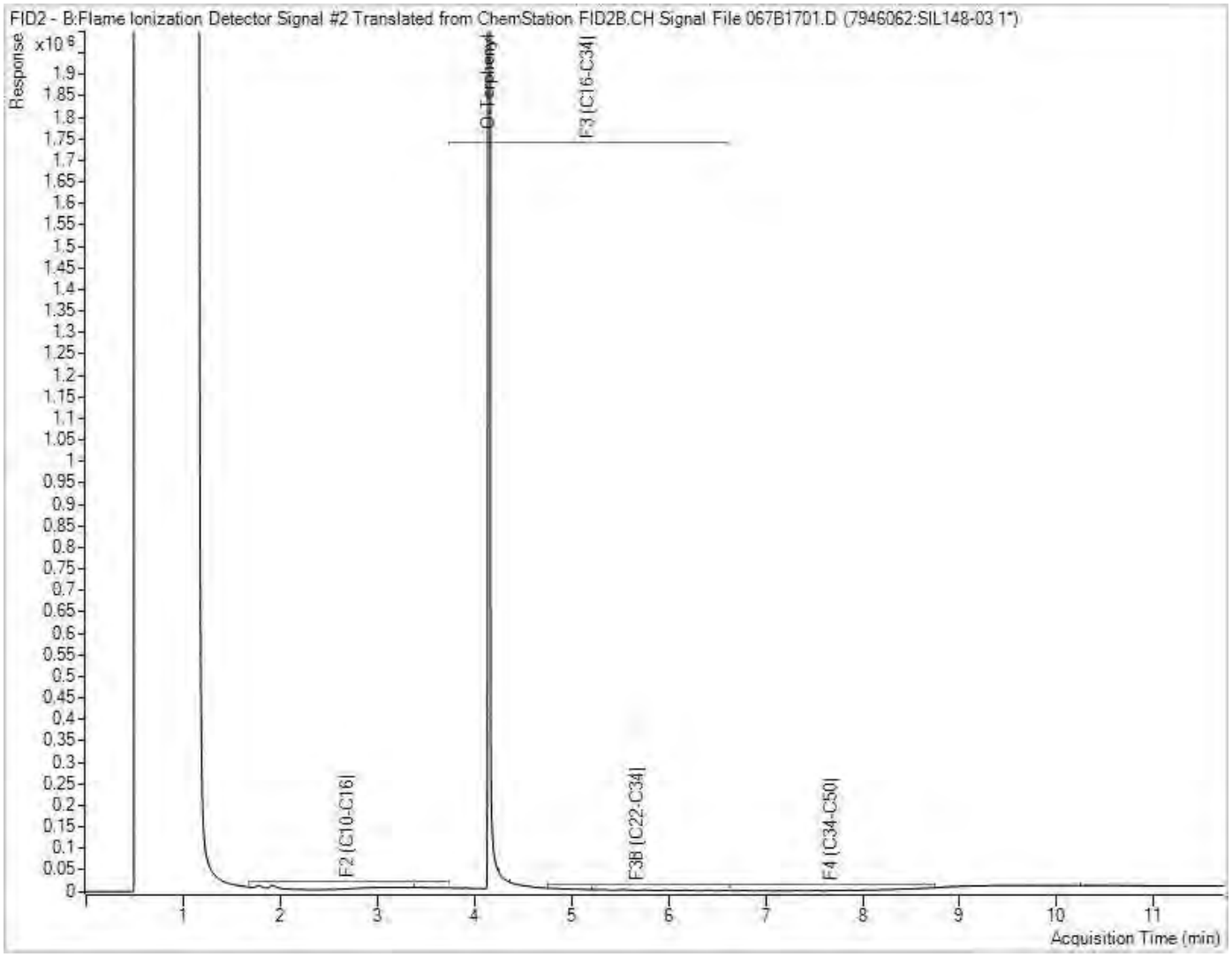
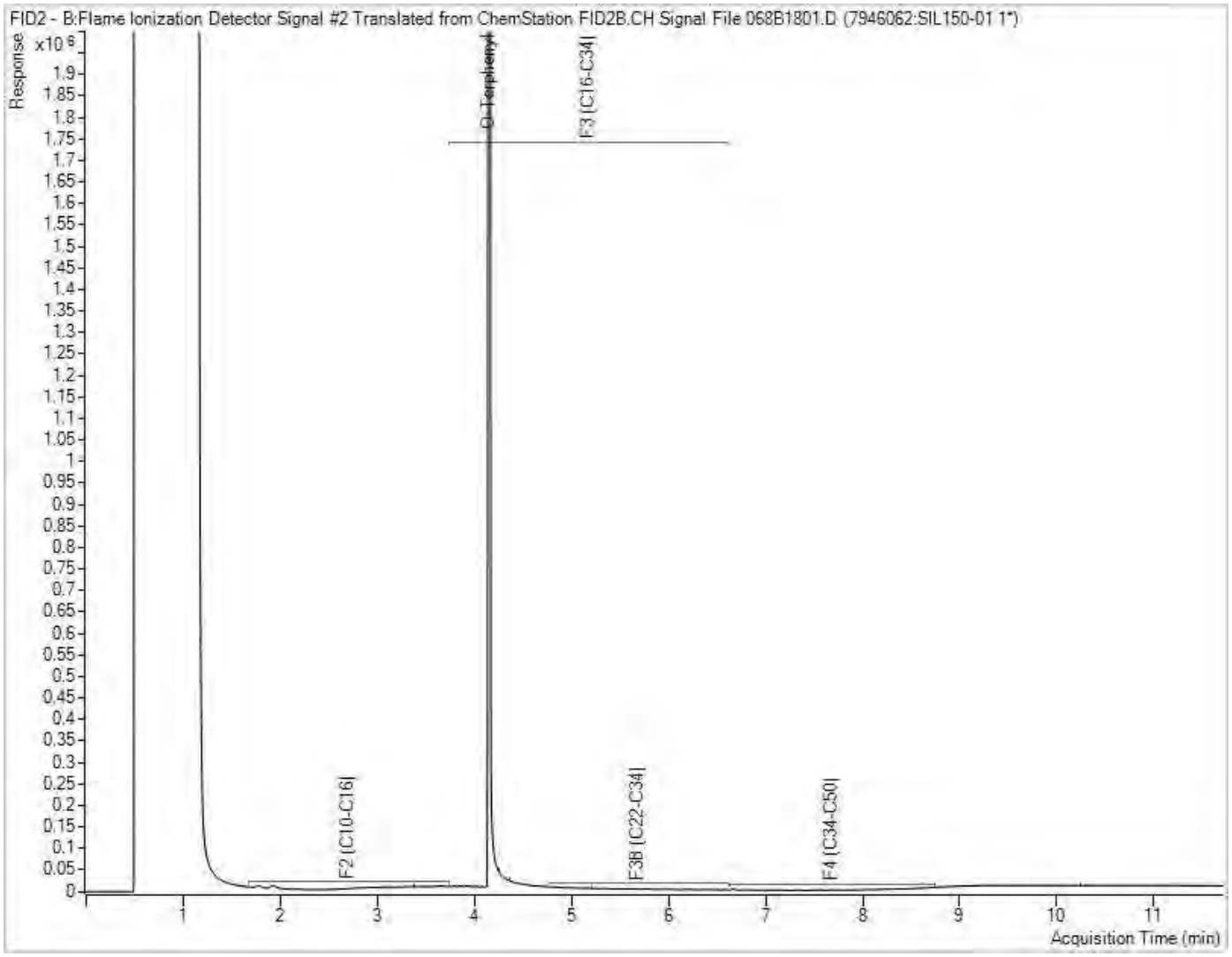
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



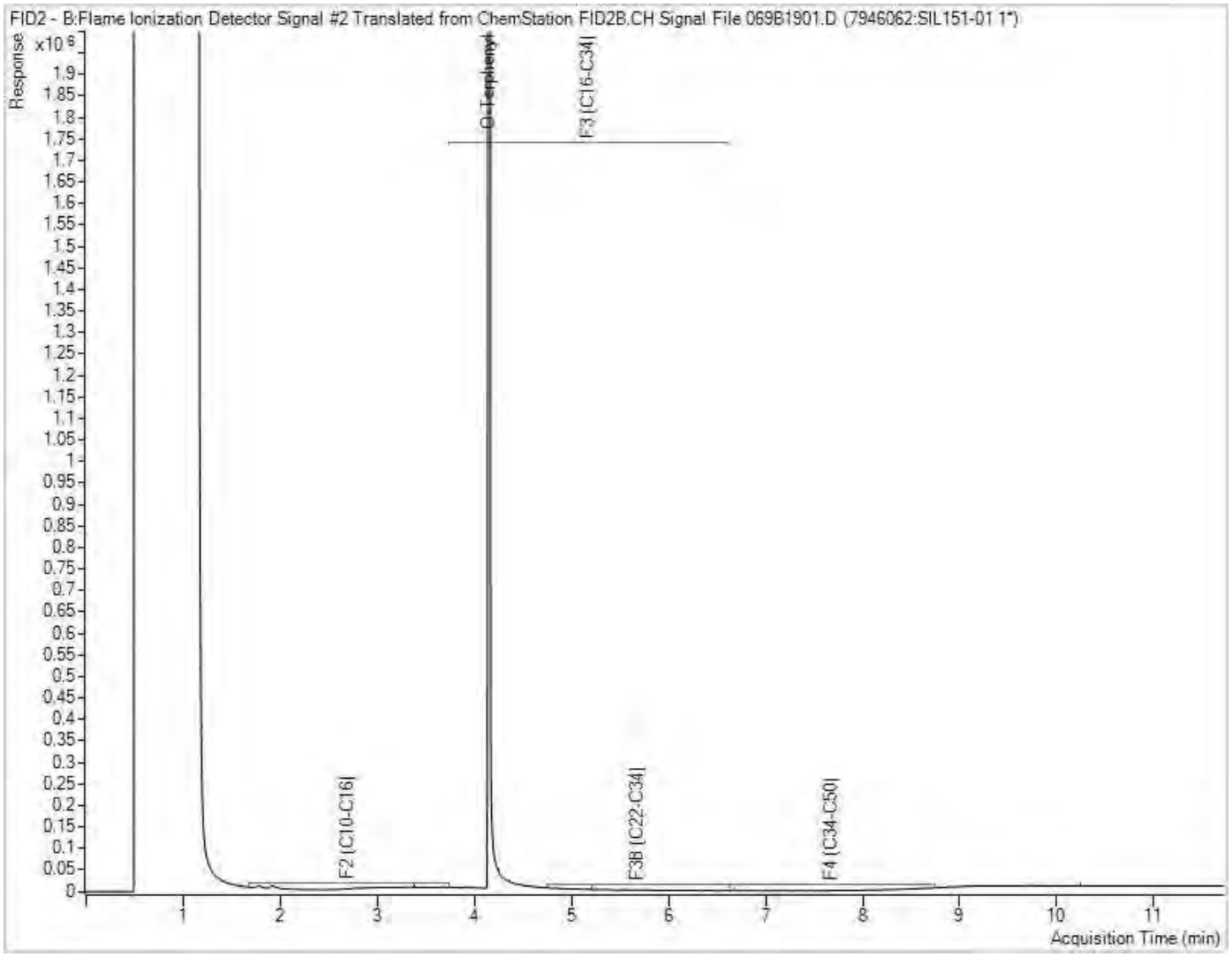
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

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.

Your Project #: CT3243.01
Site#: RSC 3
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128255
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296102
Received: 2022/04/11, 17:30

Sample Matrix: Soil
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	2	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	4	2022/04/14	2022/04/15	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/04/14	2022/04/18	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	5	N/A	2022/04/14		EPA 8260C m
Free (WAD) Cyanide	1	2022/04/14	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	4	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	11	2022/04/14	2022/04/14	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	2	2022/05/13	2022/05/13	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/14	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	4	2022/04/16	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	4	N/A	2022/04/17	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	9	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/14	2022/04/18	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/05/13	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	14	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/05/11	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (4)	2	2022/04/13	2022/04/14	CAM SOP-00307	SW846 8081, 8082
OC Pesticides (Selected) & PCB (4)	2	2022/04/14	2022/04/15	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/13	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	2	2022/04/14	2022/04/15	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	5	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	11	N/A	2022/04/18	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	5	N/A	2022/04/14	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau

Your Project #: CT3243.01
Site#: RSC 3
Site Location: GRAND NIAGARA GOLF RSC 3
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128255
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296102
Received: 2022/04/11, 17:30

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.

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL133			SIL134			SIL135		
Sampling Date		2022/04/06 09:00			2022/04/06 09:15			2022/04/06 09:30		
COC Number		na			na			na		
	UNITS	3-BH227-1	RDL	QC Batch	3-BH227-2B	RDL	QC Batch	3-MW228-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.60		7935288	1.2		7935288	0.29		7935288
Inorganics										
Conductivity	mS/cm	2.0	0.002	7940618	1.1	0.002	7940618	0.45	0.002	7940618
Moisture	%				19	1.0	7936126			
Available (CaCl2) pH	pH	7.68		7944027	7.69		7944011	7.74		7944027
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944061	<0.01	0.01	7941220	<0.01	0.01	7944061
Chromium (VI)	ug/g	<0.18	0.18	7943480	<0.18	0.18	7940769	<0.18	0.18	7943480
Metals										
Hot Water Ext. Boron (B)	ug/g	0.20	0.050	7940537	0.076	0.050	7940537	0.070	0.050	7940537
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7940870	0.22	0.20	7940870	0.24	0.20	7940870
Acid Extractable Arsenic (As)	ug/g	5.2	1.0	7940870	5.8	1.0	7940870	7.2	1.0	7940870
Acid Extractable Barium (Ba)	ug/g	130	0.50	7940870	110	0.50	7940870	150	0.50	7940870
Acid Extractable Beryllium (Be)	ug/g	0.73	0.20	7940870	0.83	0.20	7940870	1.2	0.20	7940870
Acid Extractable Boron (B)	ug/g	9.2	5.0	7940870	8.1	5.0	7940870	6.4	5.0	7940870
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7940870	<0.10	0.10	7940870	0.11	0.10	7940870
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7940870	23	1.0	7940870	27	1.0	7940870
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7940870	12	0.10	7940870	18	0.10	7940870
Acid Extractable Copper (Cu)	ug/g	24	0.50	7940870	27	0.50	7940870	25	0.50	7940870
Acid Extractable Lead (Pb)	ug/g	9.1	1.0	7940870	10	1.0	7940870	13	1.0	7940870
Acid Extractable Molybdenum (Mo)	ug/g	0.65	0.50	7940870	0.61	0.50	7940870	0.77	0.50	7940870
Acid Extractable Nickel (Ni)	ug/g	30	0.50	7940870	27	0.50	7940870	36	0.50	7940870
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870	<0.50	0.50	7940870	<0.50	0.50	7940870
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870	<0.20	0.20	7940870	<0.20	0.20	7940870
Acid Extractable Thallium (Tl)	ug/g	0.14	0.050	7940870	0.18	0.050	7940870	0.17	0.050	7940870
Acid Extractable Uranium (U)	ug/g	0.74	0.050	7940870	0.95	0.050	7940870	0.66	0.050	7940870
Acid Extractable Vanadium (V)	ug/g	32	5.0	7940870	36	5.0	7940870	41	5.0	7940870
Acid Extractable Zinc (Zn)	ug/g	60	5.0	7940870	59	5.0	7940870	74	5.0	7940870
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870	<0.050	0.050	7940870	<0.050	0.050	7940870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL146			SIL147			SIL148		
Sampling Date		2022/04/06 16:30			2022/04/06 16:40			2022/04/07 08:30		
COC Number		na			na			na		
	UNITS	3-BH230-1A	RDL	QC Batch	3-BH230-2B	RDL	QC Batch	3-MW231-1A	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.61		7935288				0.90		7935288
Inorganics										
Conductivity	mS/cm	0.13	0.002	7940618				0.59	0.002	7940618
Moisture	%				21	1.0	7988653			
Available (CaCl2) pH	pH	7.87		7944027	7.90		7994222	7.81		7944027
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944061	<0.01	0.01	7993299	<0.01	0.01	7944061
Chromium (VI)	ug/g	<0.18	0.18	7943480	<0.18	0.18	7993725	<0.18	0.18	7943480
Metals										
Hot Water Ext. Boron (B)	ug/g	0.17	0.050	7940537	0.40	0.050	7990894	0.054	0.050	7941115
Acid Extractable Antimony (Sb)	ug/g	0.25	0.20	7940870	0.21	0.20	7993797	<0.20	0.20	7940870
Acid Extractable Arsenic (As)	ug/g	5.8	1.0	7940870	5.4	1.0	7993797	4.9	1.0	7940870
Acid Extractable Barium (Ba)	ug/g	150	0.50	7940870	130	0.50	7993797	140	0.50	7940870
Acid Extractable Beryllium (Be)	ug/g	1.3	0.20	7940870	0.77	0.20	7993797	0.99	0.20	7940870
Acid Extractable Boron (B)	ug/g	8.8	5.0	7940870	11	5.0	7993797	11	5.0	7940870
Acid Extractable Cadmium (Cd)	ug/g	0.14	0.10	7940870	<0.10	0.10	7993797	<0.10	0.10	7940870
Acid Extractable Chromium (Cr)	ug/g	33	1.0	7940870	25	1.0	7993797	30	1.0	7940870
Acid Extractable Cobalt (Co)	ug/g	21	0.10	7940870	15	0.10	7993797	15	0.10	7940870
Acid Extractable Copper (Cu)	ug/g	27	0.50	7940870	25	0.50	7993797	24	0.50	7940870
Acid Extractable Lead (Pb)	ug/g	13	1.0	7940870	9.3	1.0	7993797	11	1.0	7940870
Acid Extractable Molybdenum (Mo)	ug/g	0.67	0.50	7940870	0.75	0.50	7993797	0.55	0.50	7940870
Acid Extractable Nickel (Ni)	ug/g	40	0.50	7940870	32	0.50	7993797	33	0.50	7940870
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870	<0.50	0.50	7993797	<0.50	0.50	7940870
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870	<0.20	0.20	7993797	<0.20	0.20	7940870
Acid Extractable Thallium (Tl)	ug/g	0.20	0.050	7940870	0.17	0.050	7993797	0.20	0.050	7940870
Acid Extractable Uranium (U)	ug/g	1.1	0.050	7940870	0.79	0.050	7993797	0.81	0.050	7940870
Acid Extractable Vanadium (V)	ug/g	45	5.0	7940870	34	5.0	7993797	40	5.0	7940870
Acid Extractable Zinc (Zn)	ug/g	80	5.0	7940870	61	5.0	7993797	70	5.0	7940870
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870	<0.050	0.050	7993797	<0.050	0.050	7940870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL148		
Sampling Date		2022/04/07 08:30		
COC Number		na		
	UNITS	3-MW231-1A Lab-Dup	RDL	QC Batch
Inorganics				
Conductivity	mS/cm	0.59	0.002	7940618

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL142	SIL143			SIL146	SIL148		
Sampling Date		2022/04/06 12:30	2022/04/06 12:30			2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na			na	na		
	UNITS	3-MW229-1A	3-MW229-91A	RDL	QC Batch	3-BH230-1A	3-MW231-1A	RDL	QC Batch
Inorganics									
Moisture	%	19	18	1.0	7936126				
Calculated Parameters									
Chlordane (Total)	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.0020	<0.0020	0.0020	7935929
Total PCB	ug/g	<0.015	<0.015	0.015	7935929	<0.015	<0.015	0.015	7935929
Pesticides & Herbicides									
Aldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
a-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
g-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
o,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Dieldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Lindane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Endrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Heptachlor	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Heptachlor epoxide	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachlorobenzene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Hexachloroethane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.0020	<0.0020	0.0020	7941505
Methoxychlor	ug/g	<0.0050	<0.0050	0.0050	7938861	<0.0050	<0.0050	0.0050	7941505
Aroclor 1242	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Aroclor 1248	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIL142	SIL143			SIL146	SIL148		
Sampling Date		2022/04/06 12:30	2022/04/06 12:30			2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na			na	na		
	UNITS	3-MW229-1A	3-MW229-91A	RDL	QC Batch	3-BH230-1A	3-MW231-1A	RDL	QC Batch
Aroclor 1254	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Aroclor 1260	ug/g	<0.015	<0.015	0.015	7938861	<0.015	<0.015	0.015	7941505
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	87	71		7938861	89	79		7941505
Decachlorobiphenyl	%	82	89		7938861	90	82		7941505

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIL136	SIL137		
Sampling Date		2022/04/06 09:30	2022/04/06 09:30		
COC Number		na	na		
	UNITS	3-MW228-1B	3-MW228-91B	RDL	QC Batch
Inorganics					
Moisture	%	17	21	1.0	7935989
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	7935285
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	7940176
Anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	7940176
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Chrysene	ug/g	<0.0050	<0.0050	0.0050	7940176
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	7940176
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	7940176
Fluorene	ug/g	<0.0050	<0.0050	0.0050	7940176
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	7940176
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Pyrene	ug/g	<0.0050	<0.0050	0.0050	7940176
Surrogate Recovery (%)					
D10-Anthracene	%	99	93		7940176
D14-Terphenyl (FS)	%	107	102		7940176
D8-Acenaphthylene	%	91	84		7940176

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SIL133	SIL135	SIL146	SIL148		
Sampling Date		2022/04/06 09:00	2022/04/06 09:30	2022/04/06 16:30	2022/04/07 08:30		
COC Number		na	na	na	na		
	UNITS	3-BH227-1	3-MW228-1A	3-BH230-1A	3-MW231-1A	RDL	QC Batch
Inorganics							
Moisture	%	18	18	19	21	1.0	7935989
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	7943248
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	7943248
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	7943248
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	7943248
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	7943248
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	10	7946062
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	7946062
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	7946062
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		7946062
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	112	112	113	113		7943248
4-Bromofluorobenzene	%	83	80	73	76		7943248
D10-o-Xylene	%	122	113	116	117		7943248
D4-1,2-Dichloroethane	%	107	106	106	108		7943248
o-Terphenyl	%	93	94	93	92		7946062

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL140	SIL141	SIL145			SIL145		
Sampling Date		2022/04/06 11:00	2022/04/06 11:00	2022/04/06 13:30			2022/04/06 13:30		
COC Number		na	na	na			na		
	UNITS	3-MW228-7B	3-MW228-97B	3-MW229-7A	RDL	QC Batch	3-MW229-7A Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	23	24	19	1.0	7935989			
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7935286			
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	7936435			
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	7936435			
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	7936435			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7936435			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	7936435			
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Hexane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	7936435			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL140	SIL141	SIL145			SIL145		
Sampling Date		2022/04/06 11:00	2022/04/06 11:00	2022/04/06 13:30			2022/04/06 13:30		
COC Number		na	na	na			na		
	UNITS	3-MW228-7B	3-MW228-97B	3-MW229-7A	RDL	QC Batch	3-MW229-7A Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	7936435			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	7936435			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	7936435			
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	7936435			
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	7936435			
F1 (C6-C10)	ug/g	<10	<10	<10	10	7936435			
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7936435			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7946062	<10	10	7946062
F3 (C16-C34 Hydrocarbons)	ug/g	64	<50	<50	50	7946062	<50	50	7946062
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7946062	<50	50	7946062
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7946062	Yes		7946062
Surrogate Recovery (%)									
o-Terphenyl	%	93	91	87		7946062	86		7946062
4-Bromofluorobenzene	%	95	95	95		7936435			
D10-o-Xylene	%	96	91	89		7936435			
D4-1,2-Dichloroethane	%	103	104	104		7936435			
D8-Toluene	%	102	102	102		7936435			

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Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL150	SIL151			SIL151		
Sampling Date		2022/04/07 09:20	2022/04/07 09:20			2022/04/07 09:20		
COC Number		na	na			na		
	UNITS	3-MW231-6A	3-MW231-96A	RDL	QC Batch	3-MW231-96A Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	27	23	1.0	7935989	24	1.0	7935989
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7935286			
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7936435			
Benzene	ug/g	<0.0060	<0.0060	0.0060	7936435			
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7936435			
Bromoform	ug/g	<0.040	<0.040	0.040	7936435			
Bromomethane	ug/g	<0.040	<0.040	0.040	7936435			
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7936435			
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
Chloroform	ug/g	<0.040	<0.040	0.040	7936435			
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7936435			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7936435			
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7936435			
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7936435			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7936435			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7936435			
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7936435			
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7936435			
Hexane	ug/g	<0.040	<0.040	0.040	7936435			
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7936435			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SIL150	SIL151			SIL151		
Sampling Date		2022/04/07 09:20	2022/04/07 09:20			2022/04/07 09:20		
COC Number		na	na			na		
	UNITS	3-MW231-6A	3-MW231-96A	RDL	QC Batch	3-MW231-96A Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7936435			
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7936435			
Styrene	ug/g	<0.040	<0.040	0.040	7936435			
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7936435			
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7936435			
Toluene	ug/g	<0.020	<0.020	0.020	7936435			
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7936435			
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7936435			
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7936435			
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7936435			
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7936435			
o-Xylene	ug/g	<0.020	<0.020	0.020	7936435			
Total Xylenes	ug/g	<0.020	<0.020	0.020	7936435			
F1 (C6-C10)	ug/g	<10	<10	10	7936435			
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7936435			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7946062			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7946062			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7946062			
Reached Baseline at C50	ug/g	Yes	Yes		7946062			
Surrogate Recovery (%)								
o-Terphenyl	%	92	93		7946062			
4-Bromofluorobenzene	%	95	94		7936435			
D10-o-Xylene	%	91	93		7936435			
D4-1,2-Dichloroethane	%	104	104		7936435			
D8-Toluene	%	103	103		7936435			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296102
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL138	SIL139			SIL140			SIL142		
Sampling Date		2022/04/06 10:30	2022/04/06 10:30			2022/04/06 11:00			2022/04/06 12:30		
COC Number		na	na			na			na		
	UNITS	3-MW228-3B	3-MW228-93B	RDL	QC Batch	3-MW228-7B	RDL	QC Batch	3-MW229-1A	RDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.89	0.91		7935288				0.43		7935288
Inorganics											
Conductivity	mS/cm	0.72	0.69	0.002	7940618	1.2	0.002	7993800	1.6	0.002	7940618
Miscellaneous Parameters											
Grain Size	%					FINE	N/A	7952276			
Sieve - #200 (<0.075mm)	%					100	1	7952276			
Sieve - #200 (>0.075mm)	%					<1	1	7952276			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SIL144		SIL145			SIL147		
Sampling Date		2022/04/06 13:00		2022/04/06 13:30			2022/04/06 16:40		
COC Number		na		na			na		
	UNITS	3-MW229-3A	QC Batch	3-MW229-7A	RDL	QC Batch	3-BH230-2B	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.60	7935288				0.46		7935288
Inorganics									
Conductivity	mS/cm	0.97	7940618	3.4	0.002	7993800	3.0	0.002	7940618
Miscellaneous Parameters									
Grain Size	%						FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%						99	1	7952276
Sieve - #200 (>0.075mm)	%						<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C296102
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL149		
Sampling Date		2022/04/07 08:40		
COC Number		na		
	UNITS	**3-MW231-2**	**RDL**	**QC Batch**
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.95		7935288
Inorganics				
Conductivity	mS/cm	0.68	0.002	7940618

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SIL133 **Collected:** 2022/04/06
Sample ID: 3-BH227-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL134 **Collected:** 2022/04/06
Sample ID: 3-BH227-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7941220	2022/04/14	2022/04/18	Nimarta Singh
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7940769	2022/04/14	2022/04/18	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944011	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL135 **Collected:** 2022/04/06
Sample ID: 3-MW228-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIL136 **Collected:** 2022/04/06
Sample ID: 3-MW228-1B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7940176	2022/04/14	2022/04/15	Mitesh Raj

Bureau Veritas ID: SIL137 **Collected:** 2022/04/06
Sample ID: 3-MW228-91B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7940176	2022/04/14	2022/04/15	Mitesh Raj

Bureau Veritas ID: SIL138 **Collected:** 2022/04/06
Sample ID: 3-MW228-3B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL139 **Collected:** 2022/04/06
Sample ID: 3-MW228-93B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL140 **Collected:** 2022/04/06
Sample ID: 3-MW228-7B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Conductivity	AT	7993800	2022/05/13	2022/05/13	Kien Tran
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas Job #: C296102
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL141 **Collected:** 2022/04/06
Sample ID: 3-MW228-97B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas ID: SIL142 **Collected:** 2022/04/06
Sample ID: 3-MW229-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL143 **Collected:** 2022/04/06
Sample ID: 3-MW229-91A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936126	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIL144 **Collected:** 2022/04/06
Sample ID: 3-MW229-3A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL145 **Collected:** 2022/04/06
Sample ID: 3-MW229-7A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Conductivity	AT	7993800	2022/05/13	2022/05/13	Kien Tran
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

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Bureau Veritas Job #: C296102
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL145 Dup
Sample ID: 3-MW229-7A
Matrix: Soil

Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam

Bureau Veritas ID: SIL146
Sample ID: 3-BH230-1A
Matrix: Soil

Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7940537	2022/04/14	2022/04/15	Gagandeep Rai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7941505	2022/04/14	2022/04/15	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL147
Sample ID: 3-BH230-2B
Matrix: Soil

Collected: 2022/04/06
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993797	2022/05/13	2022/05/13	Viviana Canzonieri
Moisture	BAL	7988653	N/A	2022/05/11	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL148
Sample ID: 3-MW231-1A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7941115	2022/04/14	2022/04/18	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota

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TEST SUMMARY

Bureau Veritas ID: SIL148 **Collected:** 2022/04/07
Sample ID: 3-MW231-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7943248	N/A	2022/04/17	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7941505	2022/04/14	2022/04/15	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL148 Dup **Collected:** 2022/04/07
Sample ID: 3-MW231-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran

Bureau Veritas ID: SIL149 **Collected:** 2022/04/07
Sample ID: 3-MW231-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7940618	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935288	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIL150 **Collected:** 2022/04/07
Sample ID: 3-MW231-6A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

Bureau Veritas ID: SIL151 **Collected:** 2022/04/07
Sample ID: 3-MW231-96A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7935286	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7936435	N/A	2022/04/14	Chandni Khawas

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Bureau Veritas Job #: C296102
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 3
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL151 Dup
Sample ID: 3-MW231-96A
Matrix: Soil

Collected: 2022/04/07
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7935989	N/A	2022/04/12	Kruti Jitesh Patel

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GENERAL COMMENTS

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

Package 1	2.7°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 3-MW228-7B and 3-MW230-2B as per client.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7936435	4-Bromofluorobenzene	2022/04/13	97	60 - 140	98	60 - 140	97	%				
7936435	D10-o-Xylene	2022/04/13	95	60 - 130	97	60 - 130	90	%				
7936435	D4-1,2-Dichloroethane	2022/04/13	100	60 - 140	101	60 - 140	100	%				
7936435	D8-Toluene	2022/04/13	105	60 - 140	103	60 - 140	101	%				
7938861	2,4,5,6-Tetrachloro-m-xylene	2022/04/14	79	50 - 130	83	50 - 130	79	%				
7938861	Decachlorobiphenyl	2022/04/14	108	50 - 130	103	50 - 130	104	%				
7940176	D10-Anthracene	2022/04/14	101	50 - 130	101	50 - 130	103	%				
7940176	D14-Terphenyl (FS)	2022/04/14	109	50 - 130	109	50 - 130	111	%				
7940176	D8-Acenaphthylene	2022/04/14	92	50 - 130	93	50 - 130	93	%				
7941505	2,4,5,6-Tetrachloro-m-xylene	2022/04/15	94	50 - 130	85	50 - 130	87	%				
7941505	Decachlorobiphenyl	2022/04/15	102	50 - 130	101	50 - 130	100	%				
7943248	1,4-Difluorobenzene	2022/04/17	101	60 - 140	98	60 - 140	115	%				
7943248	4-Bromofluorobenzene	2022/04/17	96	60 - 140	101	60 - 140	72	%				
7943248	D10-o-Xylene	2022/04/17	112	60 - 140	105	60 - 140	115	%				
7943248	D4-1,2-Dichloroethane	2022/04/17	95	60 - 140	95	60 - 140	109	%				
7946062	o-Terphenyl	2022/04/19	94	60 - 130	96	60 - 130	97	%				
7935989	Moisture	2022/04/12							2.1	20		
7936126	Moisture	2022/04/12							1.0	20		
7936435	1,1,1,2-Tetrachloroethane	2022/04/13	103	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,1-Trichloroethane	2022/04/13	101	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,2,2-Tetrachloroethane	2022/04/13	89	60 - 140	88	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1,2-Trichloroethane	2022/04/13	104	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1-Dichloroethane	2022/04/13	95	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
7936435	1,1-Dichloroethylene	2022/04/13	99	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7936435	1,2-Dichlorobenzene	2022/04/13	99	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
7936435	1,2-Dichloroethane	2022/04/13	93	60 - 140	95	60 - 130	<0.049	ug/g	NC	50		
7936435	1,2-Dichloropropane	2022/04/13	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	1,3-Dichlorobenzene	2022/04/13	104	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	1,4-Dichlorobenzene	2022/04/13	118	60 - 140	116	60 - 130	<0.040	ug/g	NC	50		
7936435	Acetone (2-Propanone)	2022/04/13	89	60 - 140	89	60 - 140	<0.49	ug/g	NC	50		
7936435	Benzene	2022/04/13	92	60 - 140	93	60 - 130	<0.0060	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7936435	Bromodichloromethane	2022/04/13	100	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7936435	Bromoform	2022/04/13	99	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	Bromomethane	2022/04/13	102	60 - 140	104	60 - 140	<0.040	ug/g	NC	50		
7936435	Carbon Tetrachloride	2022/04/13	100	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	Chlorobenzene	2022/04/13	102	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7936435	Chloroform	2022/04/13	97	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7936435	cis-1,2-Dichloroethylene	2022/04/13	99	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7936435	cis-1,3-Dichloropropene	2022/04/13	92	60 - 140	98	60 - 130	<0.030	ug/g	NC	50		
7936435	Dibromochloromethane	2022/04/13	100	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7936435	Dichlorodifluoromethane (FREON 12)	2022/04/13	102	60 - 140	100	60 - 140	<0.040	ug/g	NC	50		
7936435	Ethylbenzene	2022/04/13	97	60 - 140	97	60 - 130	<0.010	ug/g	NC	50		
7936435	Ethylene Dibromide	2022/04/13	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7936435	F1 (C6-C10) - BTEX	2022/04/13					<10	ug/g	NC	30		
7936435	F1 (C6-C10)	2022/04/13	95	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7936435	Hexane	2022/04/13	101	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7936435	Methyl Ethyl Ketone (2-Butanone)	2022/04/13	90	60 - 140	91	60 - 140	<0.40	ug/g	NC	50		
7936435	Methyl Isobutyl Ketone	2022/04/13	94	60 - 140	97	60 - 130	<0.40	ug/g	NC	50		
7936435	Methyl t-butyl ether (MTBE)	2022/04/13	92	60 - 140	94	60 - 130	<0.040	ug/g	NC	50		
7936435	Methylene Chloride(Dichloromethane)	2022/04/13	96	60 - 140	97	60 - 130	<0.049	ug/g	NC	50		
7936435	o-Xylene	2022/04/13	95	60 - 140	95	60 - 130	<0.020	ug/g	NC	50		
7936435	p+m-Xylene	2022/04/13	99	60 - 140	99	60 - 130	<0.020	ug/g	NC	50		
7936435	Styrene	2022/04/13	103	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	Tetrachloroethylene	2022/04/13	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7936435	Toluene	2022/04/13	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50		
7936435	Total Xylenes	2022/04/13					<0.020	ug/g	NC	50		
7936435	trans-1,2-Dichloroethylene	2022/04/13	98	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7936435	trans-1,3-Dichloropropene	2022/04/13	99	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
7936435	Trichloroethylene	2022/04/13	104	60 - 140	106	60 - 130	<0.010	ug/g	NC	50		
7936435	Trichlorofluoromethane (FREON 11)	2022/04/13	107	60 - 140	108	60 - 130	<0.040	ug/g	NC	50		
7936435	Vinyl Chloride	2022/04/13	104	60 - 140	103	60 - 130	<0.019	ug/g	NC	50		
7938861	a-Chlordane	2022/04/14	107	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7938861	Aldrin	2022/04/14	113	50 - 130	109	50 - 130	<0.0020	ug/g	NC	40		
7938861	Aroclor 1242	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1248	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1254	2022/04/14					<0.015	ug/g				
7938861	Aroclor 1260	2022/04/14					<0.015	ug/g				
7938861	Dieldrin	2022/04/14	124	50 - 130	125	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endosulfan I (alpha)	2022/04/14	102	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endosulfan II (beta)	2022/04/14	107	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7938861	Endrin	2022/04/14	114	50 - 130	115	50 - 130	<0.0020	ug/g	NC	40		
7938861	g-Chlordane	2022/04/14	107	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7938861	Heptachlor epoxide	2022/04/14	106	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40		
7938861	Heptachlor	2022/04/14	87	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachlorobenzene	2022/04/14	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachlorobutadiene	2022/04/14	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40		
7938861	Hexachloroethane	2022/04/14	70	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40		
7938861	Lindane	2022/04/14	99	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40		
7938861	Methoxychlor	2022/04/14	129	50 - 130	126	50 - 130	<0.0050	ug/g	NC	40		
7938861	o,p-DDD	2022/04/14	120	50 - 130	119	50 - 130	<0.0020	ug/g	NC	40		
7938861	o,p-DDE	2022/04/14	93	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40		
7938861	o,p-DDT	2022/04/14	103	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDD	2022/04/14	119	50 - 130	117	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDE	2022/04/14	102	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40		
7938861	p,p-DDT	2022/04/14	116	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7940176	1-Methylnaphthalene	2022/04/14	104	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7940176	2-Methylnaphthalene	2022/04/14	103	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40		
7940176	Acenaphthene	2022/04/14	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
7940176	Acenaphthylene	2022/04/14	90	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40		
7940176	Anthracene	2022/04/14	99	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(a)anthracene	2022/04/14	103	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(a)pyrene	2022/04/14	86	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(b/j)fluoranthene	2022/04/14	94	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940176	Benzo(g,h,i)perylene	2022/04/14	98	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7940176	Benzo(k)fluoranthene	2022/04/14	95	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7940176	Chrysene	2022/04/14	105	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40		
7940176	Dibenzo(a,h)anthracene	2022/04/14	94	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7940176	Fluoranthene	2022/04/14	104	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7940176	Fluorene	2022/04/14	97	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7940176	Indeno(1,2,3-cd)pyrene	2022/04/14	95	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40		
7940176	Naphthalene	2022/04/14	91	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40		
7940176	Phenanthrene	2022/04/14	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40		
7940176	Pyrene	2022/04/14	105	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7940537	Hot Water Ext. Boron (B)	2022/04/15	103	75 - 125	94	75 - 125	<0.050	ug/g	2.7	40		
7940618	Conductivity	2022/04/14			99	90 - 110	<0.002	mS/cm	0	10		
7940769	Chromium (VI)	2022/04/18	76	70 - 130	88	80 - 120	<0.18	ug/g	NC	35		
7940870	Acid Extractable Antimony (Sb)	2022/04/19	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Arsenic (As)	2022/04/19	96	75 - 125	99	80 - 120	<1.0	ug/g	0.71	30		
7940870	Acid Extractable Barium (Ba)	2022/04/19	93	75 - 125	101	80 - 120	<0.50	ug/g	2.6	30		
7940870	Acid Extractable Beryllium (Be)	2022/04/19	97	75 - 125	99	80 - 120	<0.20	ug/g	5.1	30		
7940870	Acid Extractable Boron (B)	2022/04/19	101	75 - 125	98	80 - 120	<5.0	ug/g	0.51	30		
7940870	Acid Extractable Cadmium (Cd)	2022/04/19	95	75 - 125	99	80 - 120	<0.10	ug/g	24	30		
7940870	Acid Extractable Chromium (Cr)	2022/04/19	98	75 - 125	101	80 - 120	<1.0	ug/g	0.96	30		
7940870	Acid Extractable Cobalt (Co)	2022/04/19	95	75 - 125	101	80 - 120	<0.10	ug/g	3.2	30		
7940870	Acid Extractable Copper (Cu)	2022/04/19	99	75 - 125	97	80 - 120	<0.50	ug/g	2.7	30		
7940870	Acid Extractable Lead (Pb)	2022/04/19	95	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30		
7940870	Acid Extractable Mercury (Hg)	2022/04/19	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30		
7940870	Acid Extractable Molybdenum (Mo)	2022/04/19	98	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Nickel (Ni)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30		
7940870	Acid Extractable Selenium (Se)	2022/04/19	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7940870	Acid Extractable Silver (Ag)	2022/04/19	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
7940870	Acid Extractable Thallium (Tl)	2022/04/19	95	75 - 125	102	80 - 120	<0.050	ug/g	14	30		
7940870	Acid Extractable Uranium (U)	2022/04/19	97	75 - 125	100	80 - 120	<0.050	ug/g	3.9	30		
7940870	Acid Extractable Vanadium (V)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	0.84	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7940870	Acid Extractable Zinc (Zn)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	6.3	30		
7941115	Hot Water Ext. Boron (B)	2022/04/18	96	75 - 125	101	75 - 125	<0.050	ug/g	NC	40		
7941220	WAD Cyanide (Free)	2022/04/18	96	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7941505	a-Chlordane	2022/04/15	117	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7941505	Aldrin	2022/04/15	100	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40		
7941505	Aroclor 1242	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1248	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1254	2022/04/15					<0.015	ug/g	NC	40		
7941505	Aroclor 1260	2022/04/15					<0.015	ug/g	NC	40		
7941505	Dieldrin	2022/04/15	128	50 - 130	124	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endosulfan I (alpha)	2022/04/15	112	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endosulfan II (beta)	2022/04/15	115	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40		
7941505	Endrin	2022/04/15	121	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
7941505	g-Chlordane	2022/04/15	119	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40		
7941505	Heptachlor epoxide	2022/04/15	121	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7941505	Heptachlor	2022/04/15	98	50 - 130	91	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachlorobenzene	2022/04/15	97	50 - 130	86	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachlorobutadiene	2022/04/15	97	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40		
7941505	Hexachloroethane	2022/04/15	72	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40		
7941505	Lindane	2022/04/15	108	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40		
7941505	Methoxychlor	2022/04/15	120	50 - 130	118	50 - 130	<0.0050	ug/g	NC	40		
7941505	o,p-DDD	2022/04/15	122	50 - 130	121	50 - 130	<0.0020	ug/g	NC	40		
7941505	o,p-DDE	2022/04/15	107	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40		
7941505	o,p-DDT	2022/04/15	114	50 - 130	103	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDD	2022/04/15	122	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDE	2022/04/15	106	50 - 130	113	50 - 130	<0.0020	ug/g	NC	40		
7941505	p,p-DDT	2022/04/15	112	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40		
7943248	Benzene	2022/04/17	99	50 - 140	98	50 - 140	<0.020	ug/g	NC	50		
7943248	Ethylbenzene	2022/04/17	115	50 - 140	108	50 - 140	<0.020	ug/g	NC	50		
7943248	F1 (C6-C10) - BTEX	2022/04/17					<10	ug/g	NC	30		
7943248	F1 (C6-C10)	2022/04/17	100	60 - 140	91	80 - 120	<10	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7943248	o-Xylene	2022/04/17	108	50 - 140	107	50 - 140	<0.020	ug/g	NC	50		
7943248	p+m-Xylene	2022/04/17	110	50 - 140	103	50 - 140	<0.040	ug/g	NC	50		
7943248	Toluene	2022/04/17	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50		
7943248	Total Xylenes	2022/04/17					<0.040	ug/g	NC	50		
7943480	Chromium (VI)	2022/04/18	85	70 - 130	91	80 - 120	<0.18	ug/g	22	35		
7944011	Available (CaCl2) pH	2022/04/18			100	97 - 103			0.61	N/A		
7944027	Available (CaCl2) pH	2022/04/18			100	97 - 103			1.1	N/A		
7944061	WAD Cyanide (Free)	2022/04/18	92	75 - 125	96	80 - 120	<0.01	ug/g	NC	35		
7946062	F2 (C10-C16 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<10	ug/g	NC	30		
7946062	F3 (C16-C34 Hydrocarbons)	2022/04/19	105	60 - 130	105	80 - 120	<50	ug/g	NC	30		
7946062	F4 (C34-C50 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7988653	Moisture	2022/05/11							3.9	20		
7990894	Hot Water Ext. Boron (B)	2022/05/13	104	75 - 125	93	75 - 125	<0.050	ug/g	5.2	40		
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35		
7993797	Acid Extractable Antimony (Sb)	2022/05/13	95	75 - 125	94	80 - 120	<0.20	ug/g	NC	30		
7993797	Acid Extractable Arsenic (As)	2022/05/13	103	75 - 125	93	80 - 120	<1.0	ug/g	2.1	30		
7993797	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	96	80 - 120	<0.50	ug/g	0.51	30		
7993797	Acid Extractable Beryllium (Be)	2022/05/13	107	75 - 125	93	80 - 120	<0.20	ug/g	0.37	30		
7993797	Acid Extractable Boron (B)	2022/05/13	99	75 - 125	90	80 - 120	<5.0	ug/g	NC	30		
7993797	Acid Extractable Cadmium (Cd)	2022/05/13	102	75 - 125	92	80 - 120	<0.10	ug/g	14	30		
7993797	Acid Extractable Chromium (Cr)	2022/05/13	109	75 - 125	95	80 - 120	<1.0	ug/g	3.0	30		
7993797	Acid Extractable Cobalt (Co)	2022/05/13	106	75 - 125	95	80 - 120	<0.10	ug/g	5.0	30		
7993797	Acid Extractable Copper (Cu)	2022/05/13	103	75 - 125	92	80 - 120	<0.50	ug/g	6.4	30		
7993797	Acid Extractable Lead (Pb)	2022/05/13	110	75 - 125	97	80 - 120	<1.0	ug/g	6.1	30		
7993797	Acid Extractable Mercury (Hg)	2022/05/13	90	75 - 125	88	80 - 120	<0.050	ug/g	NC	30		
7993797	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30		
7993797	Acid Extractable Nickel (Ni)	2022/05/13	109	75 - 125	94	80 - 120	<0.50	ug/g	4.3	30		
7993797	Acid Extractable Selenium (Se)	2022/05/13	104	75 - 125	94	80 - 120	<0.50	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7993797	Acid Extractable Silver (Ag)	2022/05/13	106	75 - 125	95	80 - 120	<0.20	ug/g	NC	30		
7993797	Acid Extractable Thallium (Tl)	2022/05/13	106	75 - 125	95	80 - 120	<0.050	ug/g	0.51	30		
7993797	Acid Extractable Uranium (U)	2022/05/13	107	75 - 125	96	80 - 120	<0.050	ug/g	1.6	30		
7993797	Acid Extractable Vanadium (V)	2022/05/13	107	75 - 125	95	80 - 120	<5.0	ug/g	2.6	30		
7993797	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	90	80 - 120	<5.0	ug/g	7.0	30		
7993800	Conductivity	2022/05/13			100	90 - 110	<0.002	mS/cm	0.41	10		
7994222	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.79	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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CHAIN

Page 1 of 2

11-Apr-22 17:30
Kudrat Bajwa
C296102
ENV-1763
C#839059-03-01
Project Manager: Ema Gitej

INVOICE TO:
Company Name: #4398 Terrapex Environmental Ltd
Attention: Accounts Payable
Address: ~~90 Scarsdale Rd~~ Toronto ON M3B 2R7
Tel: (416) 245-0011 Fax: (416) 245-0012
Email: accounts.payable@terrapex.com

REPORT TO:
Company Name: #6839 Terrapex Environmental Ltd
Attention: ~~Siratha Chhan~~ Roy Yu
Address: ~~65 Nebo Road~~ ~~Hamilton ON L8W 2C9~~
Tel: ~~(905) 632-5939 Ext: 263~~ Fax: ~~(905) 632-6793~~
Email: ~~S.Chhan@terrapex.com~~ R.Yu@terrapex.com

PROJECT INFORMATION:
Quotation #: ~~G01024~~ C21481
P.O. #:
Project: ~~CT2802.02~~ CT3243.01
Project Name: GRAND NIAGARA GOLF
Site #: RSC3
Sampled By: R.A

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 5 ☐ Res/Park ☐ Ind/Comm ☐ Agri/Other ☒ Medium/Fine ☐ Coarse ☒ For RSC

Other Regulations: ☐ CCME ☐ Reg 558 ☐ MISA ☐ PWQO ☐ Other ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Reg 406 Table

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; O Reg 153 VOCs by HS & F1-F4; BTEX/PHCS F1-F4 (O.Reg 153); METALS AND INORGANICS (O.Reg 153); EC/SAR (O.Reg 153); PAHS (O.Reg 153); OC PESTICIDES (O.Reg 153)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals / Hg / Cr VI	O Reg 153 VOCs by HS & F1-F4	BTEX/PHCS F1-F4	METALS AND INORGANICS	EC/SAR	PAHS	OC PESTICIDES	# of Bottles	Comments
1	✓	3-BH227-1	APRIL 6/22	9AM	SOIL	N			X	X				5	
2	✓	3-BH227-2B	↓	915Am	SOIL	↓				X				↓	
3	✓	3-MW228-1A	↓	930Am	↓	↓			X	X				4	
4	✓	3-MW228-1B	↓	930Am	↓	↓						X		↓	
5	✓	3-MW228-91B	↓	930Am	↓	↓						X		↓	
6	✓	3-MW228-3B	↓	1030Am	↓	↓					X			↓	
7	✓	3-MW228-93B	↓	1030Am	↓	↓					X			↓	
8	✓	3-MW228-7B	↓	11Am	↓	↓		X						3	
9	✓	3-MW228-97B	↓	11Am	↓	↓		X						3	
10	✓	3-MW229-1A	↓	1230Pm	↓	↓					X		X	3	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
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.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive
RAYMOND AYUEN	22/04/07	830Am	Ashraf Rehman / MSIS Rehman	2022/04/11	17:30	0	

Laboratory Use Only
Temperature (°C) on Recei: 1/7/0
Custody Seal Present: Yes ✓ No
Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

BV [signature]

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	TERRAPEX ENVIRONMENTAL	Quotation #:	~~C01024~~ C 2481	BV Labs Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			839290
Address:	90 Scarsdale Rd	Address:		Project:	~~CT3243.00~~ CT3243.01	COC #:	Project Manager:
	Toronto ON M3B 2R7			Project Name:	GRAND NIAGARA GOLF	C#839290-10-01	Ema Gitej
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	RSC		
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	R.A.		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ____ ☐ PWQO ☐ Reg 406 Table ____ ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ (call lab for #)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

#	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 (Soil)	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 OC Pesticides (Soil)	EC/SAR O.Reg 153	VOCs/PHCs (F1-F4) O.Reg 153					# of Bottles	Comments
1	✓	3-MW229-9A	April 6/22	12:30PM	SOIL	N			X							1	
2	✓	3-MW229-3A	↓	1PM	↓	↓				X						1	
3	✓	3-MW229-7A	↓	1:30PM	↓	↓					X					4	
4	✓	3-MW230-1A	↓	4:30PM	↓	↓	X	X	X							5	
5	✓	3-MW230-2B	↓	4:40PM	↓	↓				X						1	
6	✓	3-MW231-1A	April 7/22	8:30AM	↓	↓	X	X	X							5	
7	✓	3-MW231-2	↓	8:40AM	↓	↓				X						1	
8	✓	3-MW231-6A	↓	9:20AM	↓	↓					X					4	
9	✓	3-MW231-96A	↓	9:20AM	↓	↓					X					4	
10																	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
RAYMOND AYNEW / [signature]	22/04/07	8PM	[signature] / ASHWINI SUKUMAR	2022/04/11	17:30	0		1/1/0	Present	✓	
									Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

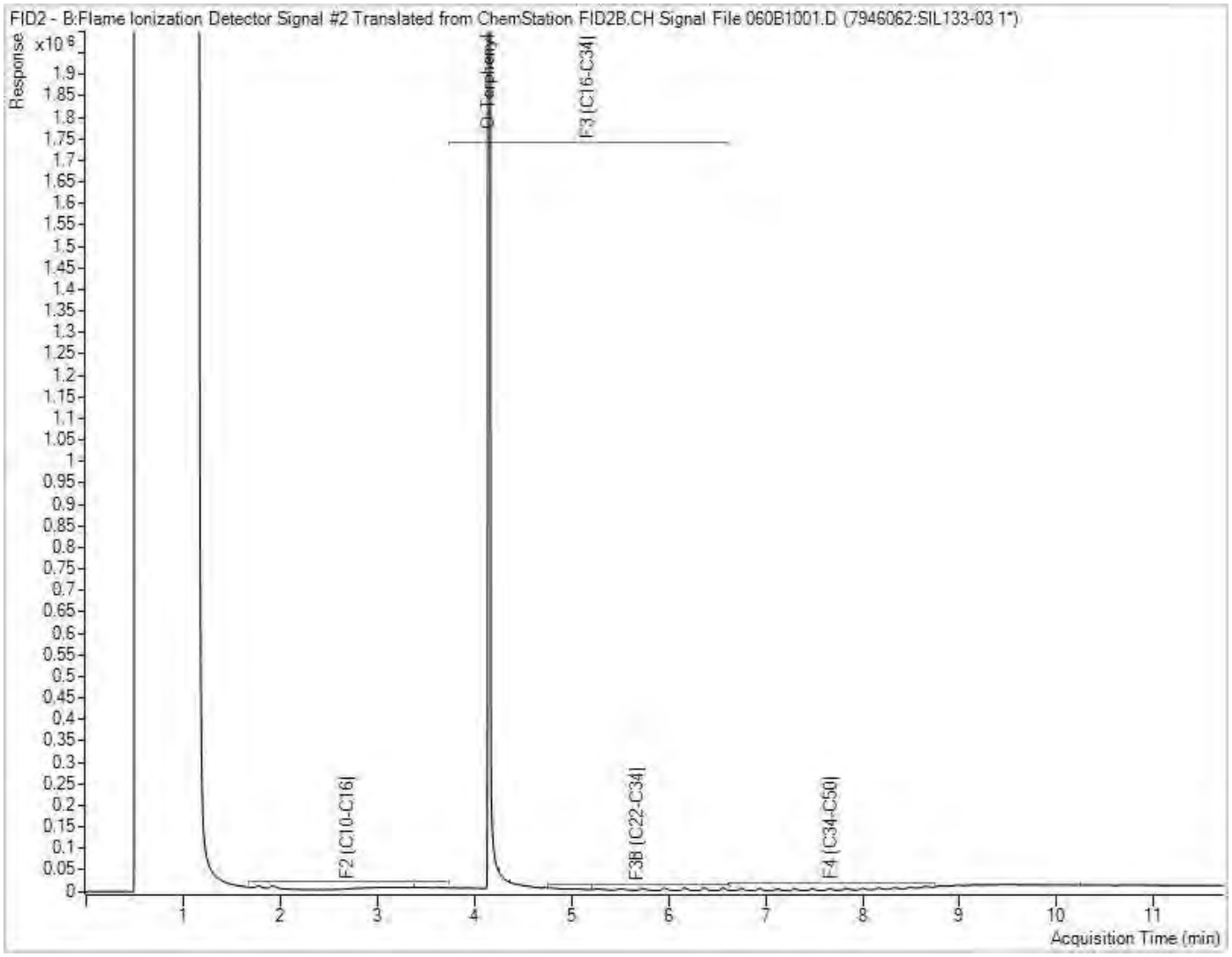
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

BV Deliver

Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

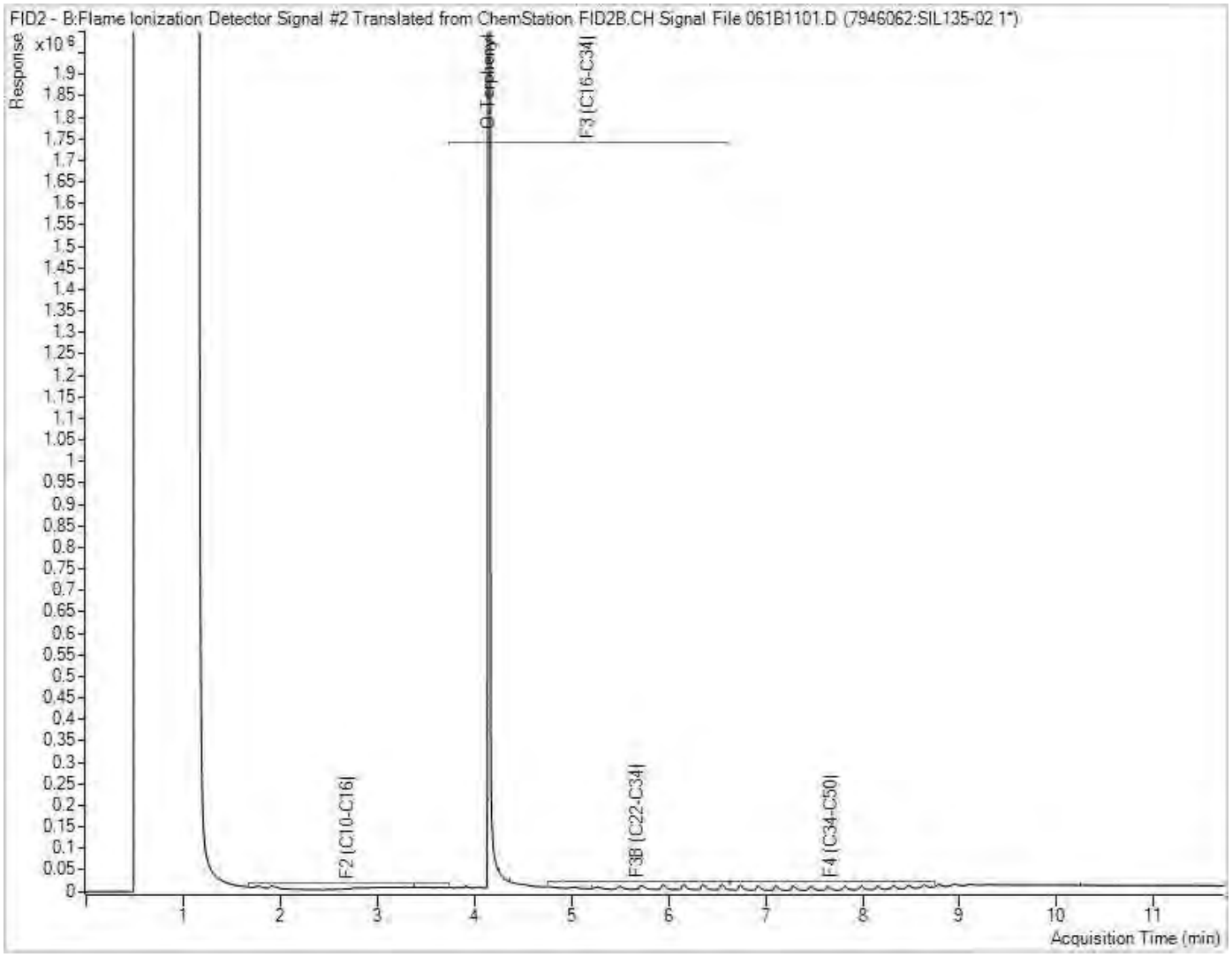


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296102
Report Date: 2022/05/17
Bureau Veritas Sample: SIL135

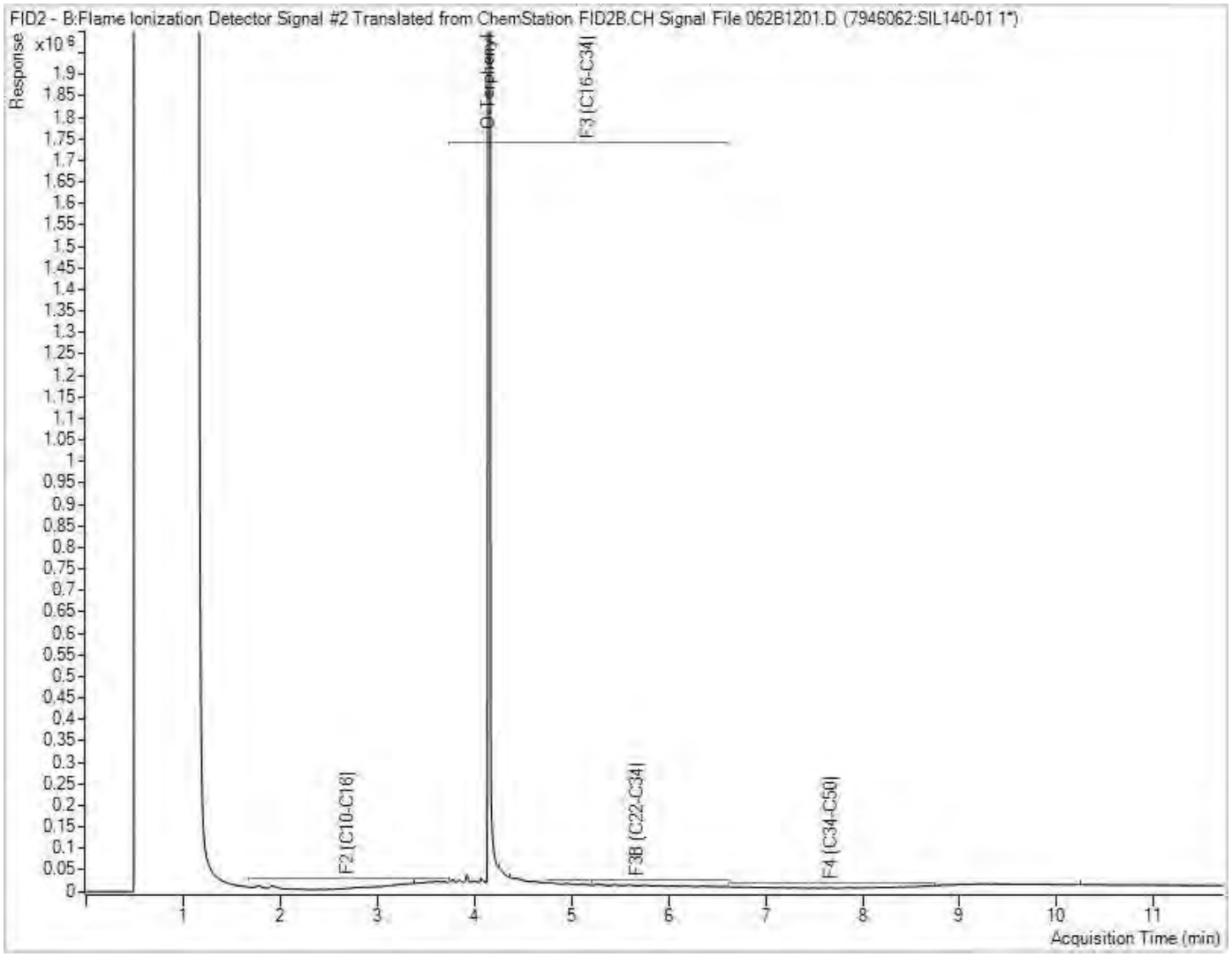
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-MW228-1A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



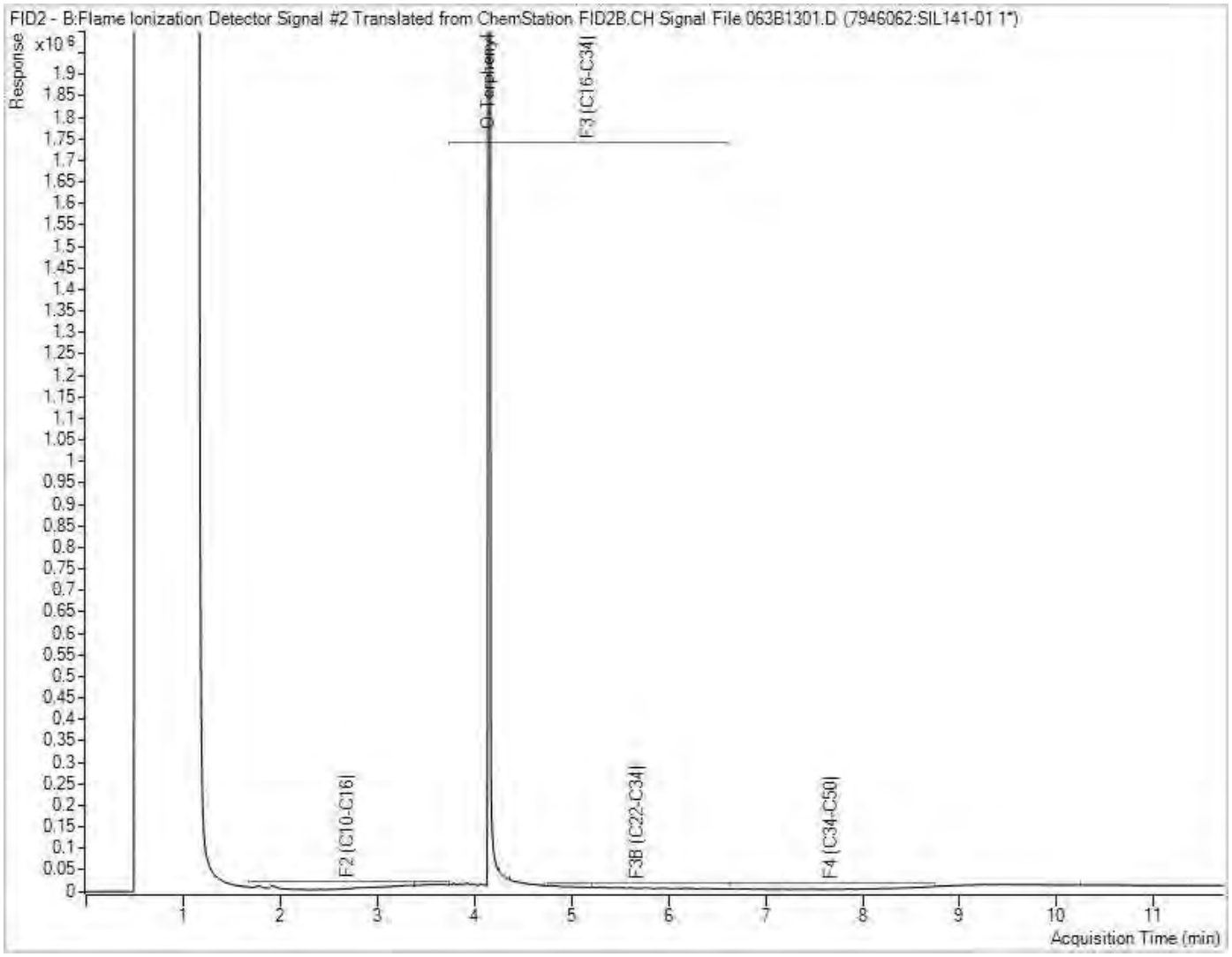
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



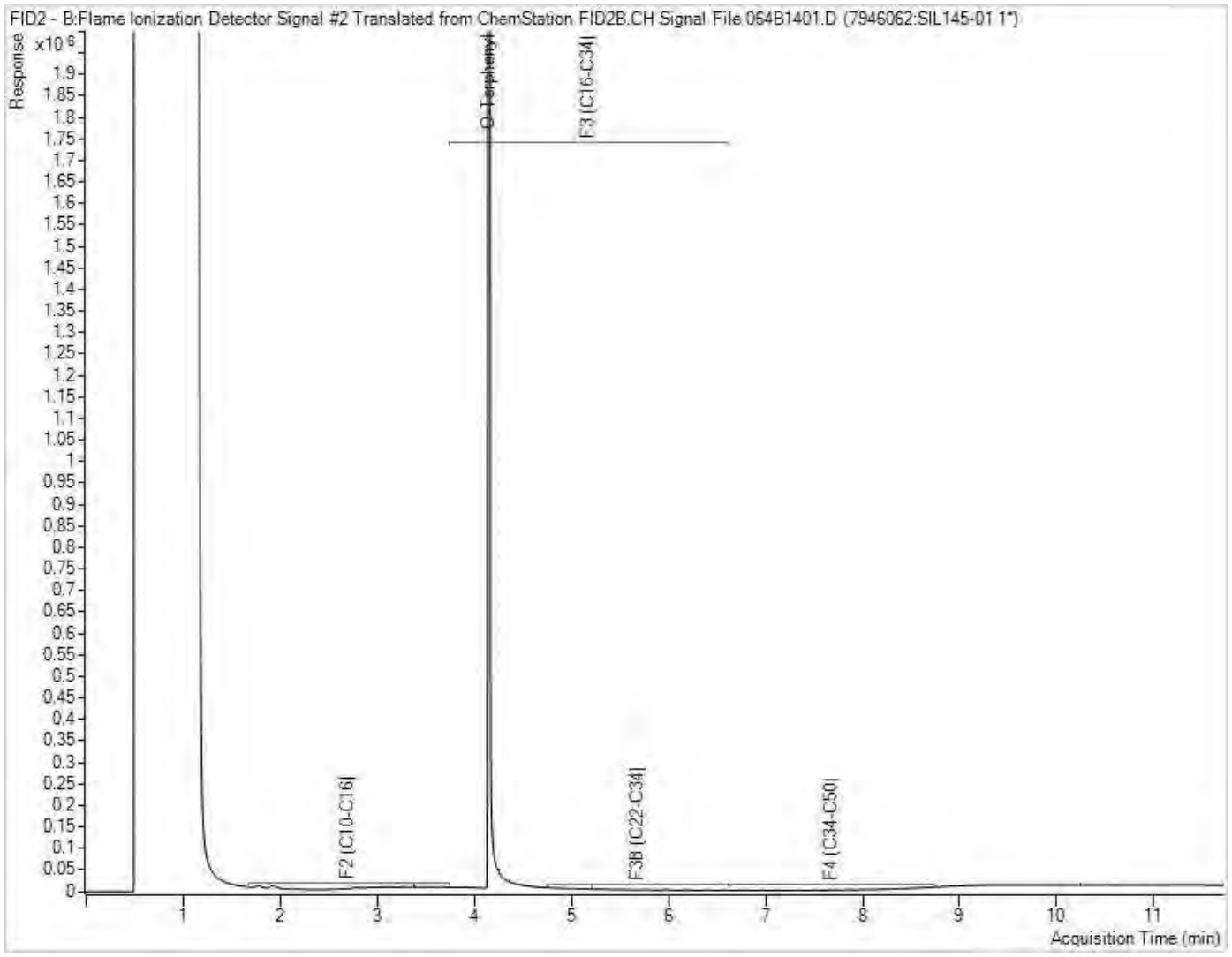
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

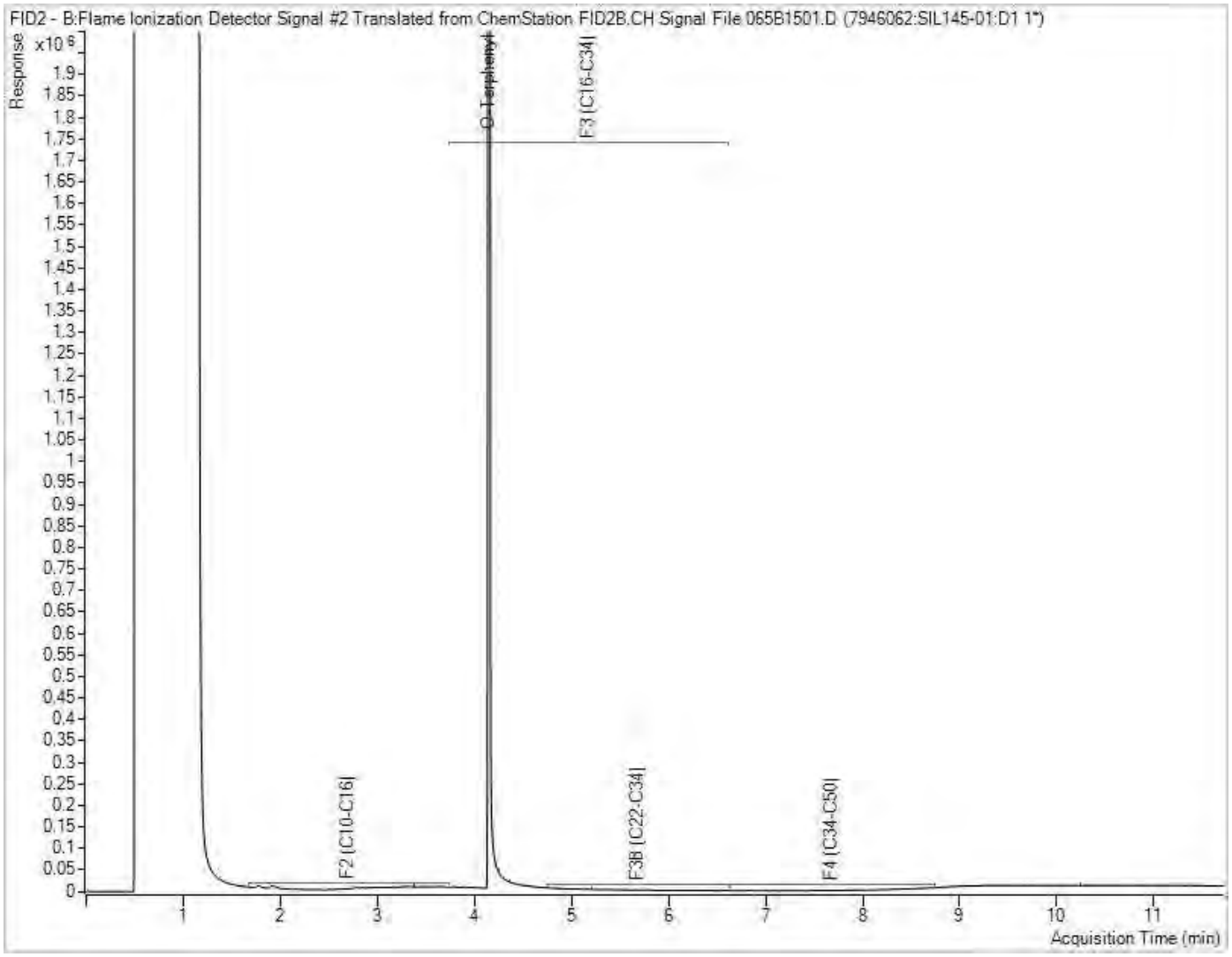


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296102
Report Date: 2022/05/17
Bureau Veritas Sample: SIL145 Lab-Dup

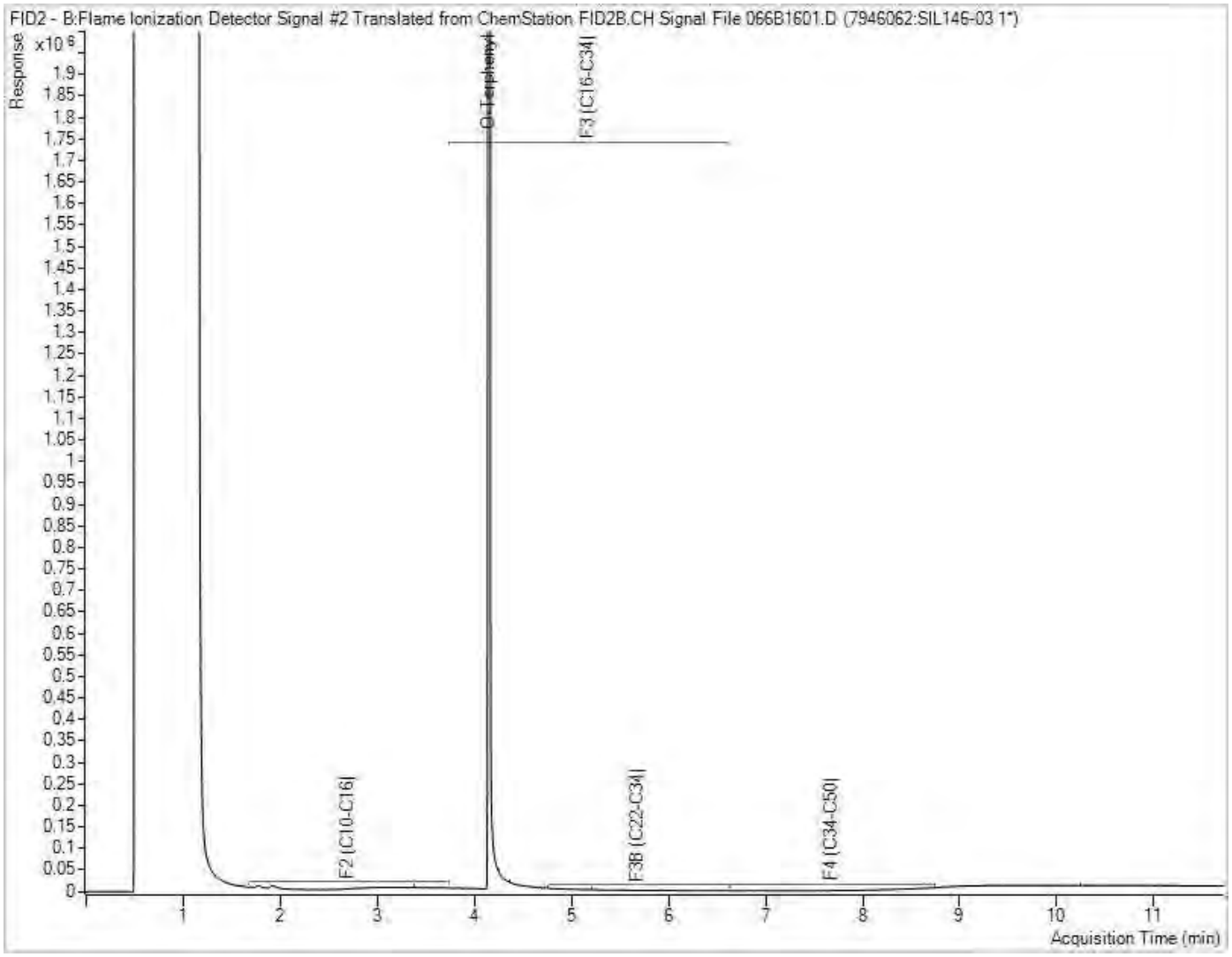
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-MW229-7A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



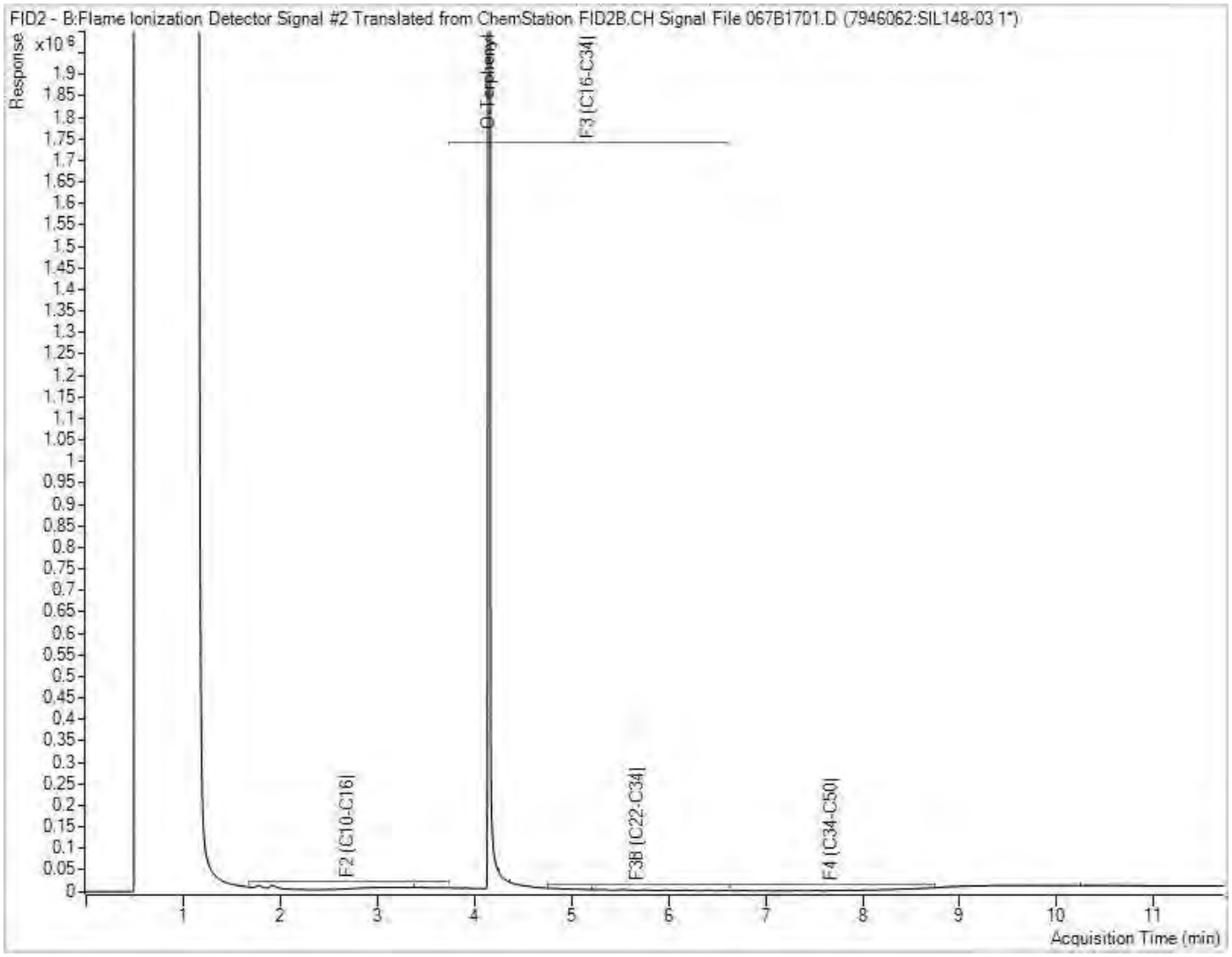
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

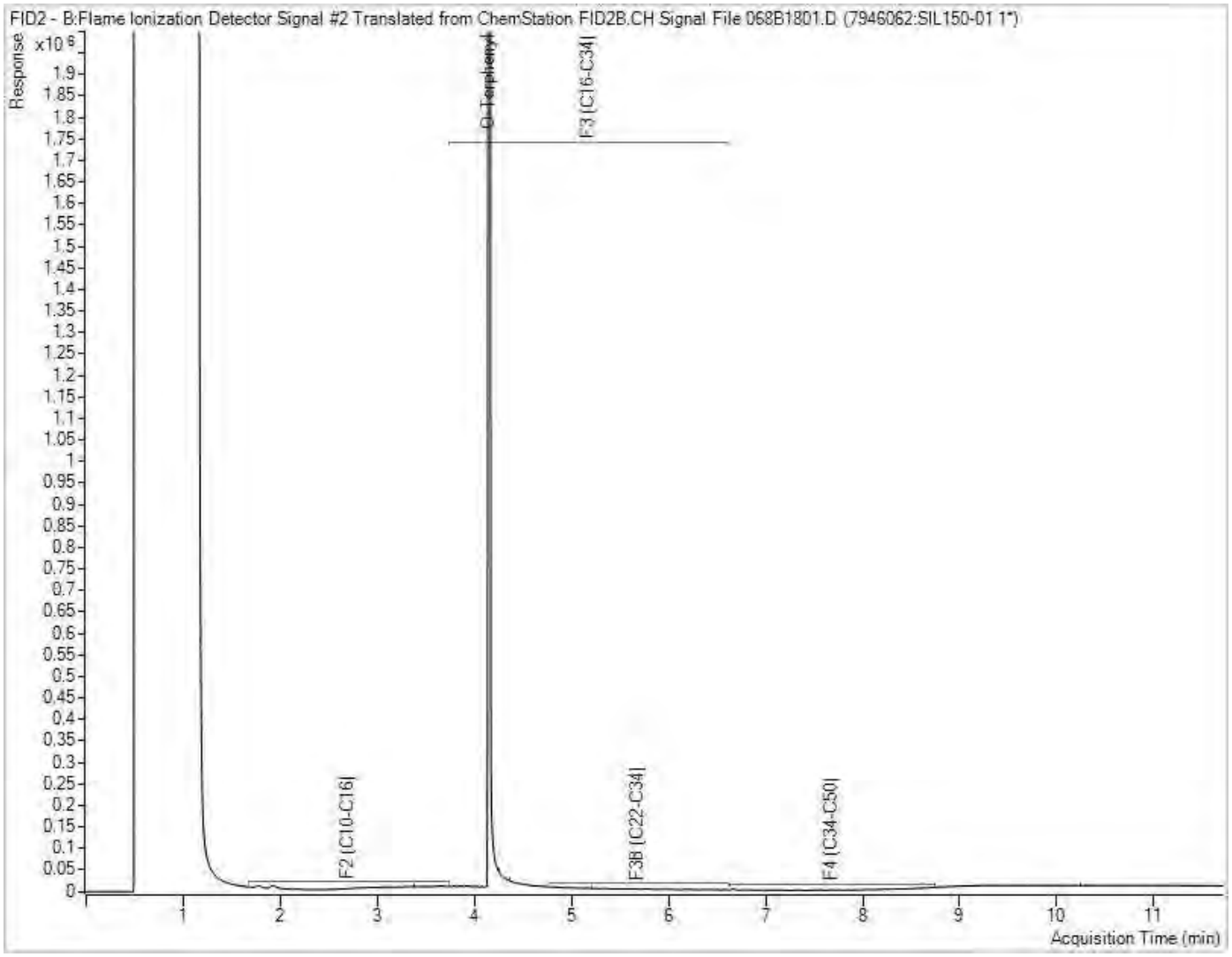


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296102
Report Date: 2022/05/17
Bureau Veritas Sample: SIL150

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-MW231-6A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

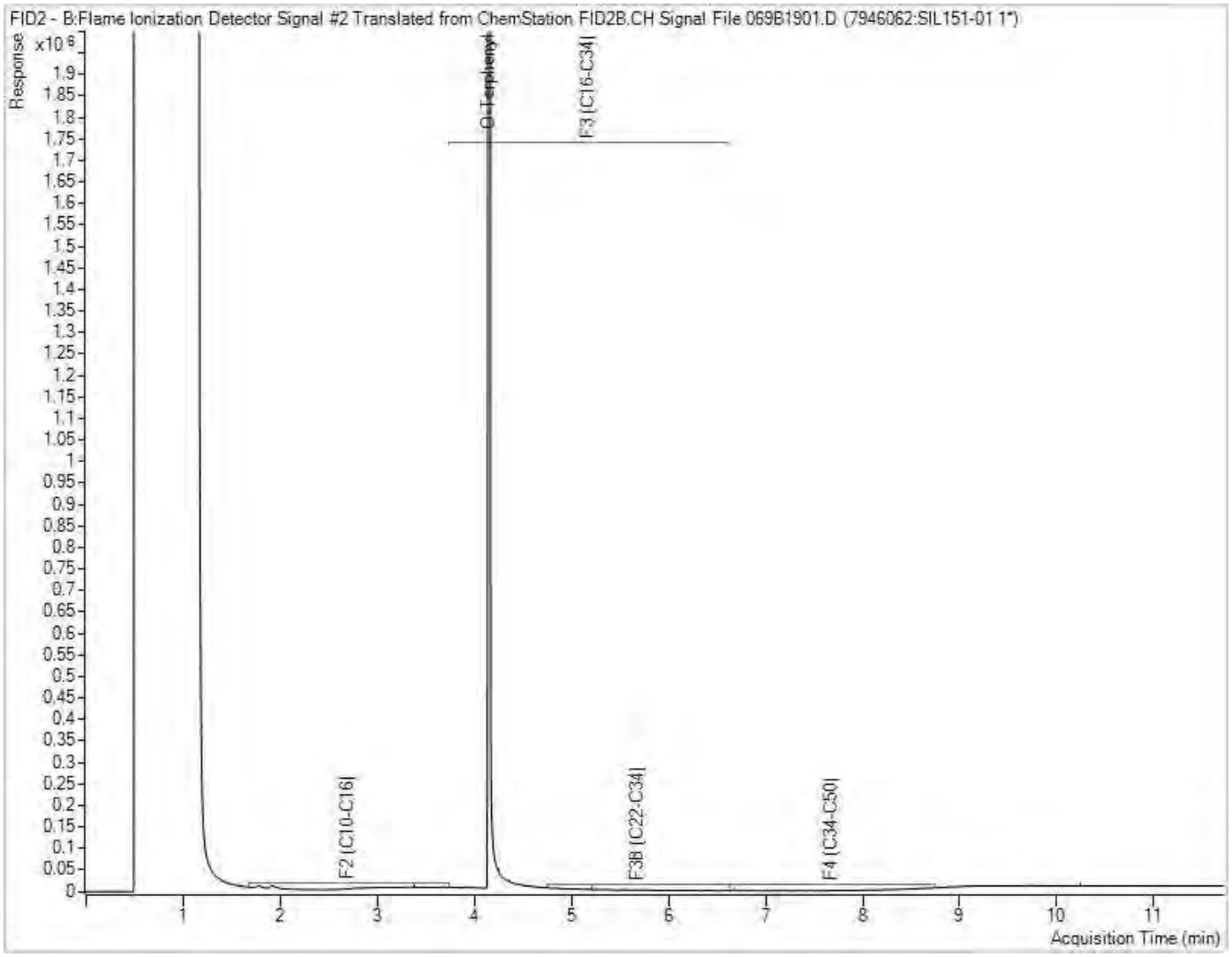


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C296102
Report Date: 2022/05/17
Bureau Veritas Sample: SIL151

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 3
Client ID: 3-MW231-96A

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7129997
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9270
Received: 2022/05/12, 16:00

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Conductivity	1	2022/05/16	2022/05/16	CAM SOP-00414	OMOE E3530 v1 m
Sodium Adsorption Ratio (SAR)	1	N/A	2022/05/18	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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7129997
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9270
Received: 2022/05/12, 16:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C2C9270
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SPN176		
Sampling Date		2022/04/04 15:00		
COC Number		N/A		
	UNITS	**4-MW226-7**	**RDL**	**QC Batch**
Calculated Parameters				
Sodium Adsorption Ratio	N/A	1.3		7993665
Inorganics				
Conductivity	mS/cm	1.4	0.002	7997592

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C2C9270
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SPN176
Sample ID: 4-MW226-7
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/05/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7997592	2022/05/16	2022/05/16	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7993665	N/A	2022/05/18	Automated Statchk

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

GENERAL COMMENTS

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

Package 1	4.0°C

Conductivity analysed past hold time.

Results relate only to the items tested.

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

Bureau Veritas Job #: C2C9270
Report Date: 2022/05/18

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Sampler Initials: AP

			SPIKED BLANK		Method Blank		RPD	
QC Batch	**Parameter**	**Date**	**% Recovery**	**QC Limits**	**Value**	**UNITS**	**Value (%)**	**QC Limits**
7997592	Conductivity	2022/05/16	100	90 - 110	<0.002	mS/cm	1.1	10

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

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.

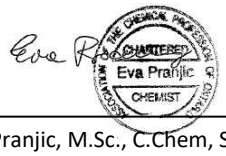
Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas Job #: C2C9270
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 4
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



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 Signature Page.

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

www.BVNA.com

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	Terrapex Environmental Ltd.	Company:	Terrapex Environmental Ltd.	Quotation #:	C21481
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	—
Street Address:	90 Scarsdale Rd.	Street Address:	90 Scarsdale Rd.	Project #:	CT3243.01
City:	Toronto Prov: ON Postal Code: M3B 2R7	City:	Toronto Prov: ON Postal Code: M3B2R7	Site #:	—
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	Grand Niagara Golf RSC: 4
Email:	accounts.payable@terrapex.com	Email:	r.yu@terrapex.com	Site Location Province:	—
Copies:		Copies:		Sampled By:	AP

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 5; ☐ Res/Park ☐ Ind/Comm ☐ Agri/other; ☒ Med/Fine ☐ Course ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ PWQO ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): [initialled]

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Analyses: 1 FIELD FILTERED; 2 FIELD PRESERVED; 3 LAB FILTRATION REQUIRED; 4 BTEX/ F1; 5 F2 - F4; 6 VOCs; 7 Reg 153 metals and inorganics; 8 Reg 153 ICPMS metals; 9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B); 10 EC/SAR; 21 # OF CONTAINERS SUBMITTED; 22 HOLD - DO NOT ANALYZE

#	Sample Identification	YY	MM	DD	HH	MM	Matrix	10 EC/SAR	# of Containers Submitted	Comments
1	4-MW226-7	22	04	04	15	00	Soil	X	1	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

Regular Turnaround Time (TAT): ☒ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply: ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

12-May-22 16:00
Kudrat Bajwa
C2C9270
ASR ENV-652

LAB USE ONLY	Yes	No	°C
Seal present	✓		1: 3
Seal intact	✓		2: 5
Cooling media present	✓		3: 4

Temperature reading by:

	Relinquished by: (Signature/ Print)	YY	MM	DD	HH	MM	Received by: (Signature/ Print)	YY	MM	DD	HH	MM
1	Alex Parniak AP	2022	05	11	18	17	Pardeep Pardeep Mrv	2022	05	12	16	00
2												

Special instructions

BVH566374

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Your C.O.C. #: 855778-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101370
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289594
Received: 2022/04/05, 15:30

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	3	2022/04/06	2022/04/07	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	3	2022/04/06	2022/04/07	CAM SOP-00457	OMOE E3015 m
Conductivity	6	2022/04/07	2022/04/07	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/06	2022/04/07	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2022/04/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	3	2022/04/06	2022/04/07	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	3	2022/04/06	2022/04/06	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2022/04/05	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	3	2022/04/07	2022/04/07	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/08	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.

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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Your C.O.C. #: 855778-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101370
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289594
Received: 2022/04/05, 15:30

* 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA095		SHA098	SHA101		
Sampling Date		2022/03/30 13:00		2022/03/30 13:45	2022/03/30 15:30		
COC Number		855778-02-01		855778-02-01	855778-02-01		
	UNITS	4-BH215-1	QC Batch	4-BH216-1	4-BH217-1A	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.69	7923352	0.97	0.52		7923352
Inorganics							
Conductivity	mS/cm	0.64	7926723	1.5	0.76	0.002	7926723
Available (CaCl2) pH	pH	7.59	7927392	7.77	7.61		7927392
WAD Cyanide (Free)	ug/g	<0.01	7924360	<0.01	<0.01	0.01	7924360
Chromium (VI)	ug/g	0.36	7924327	<0.18	<0.18	0.18	7924327
Metals							
Hot Water Ext. Boron (B)	ug/g	0.10	7925407	0.24	0.082	0.050	7925407
Acid Extractable Antimony (Sb)	ug/g	<0.20	7924874	0.26	<0.20	0.20	7924741
Acid Extractable Arsenic (As)	ug/g	4.3	7924874	4.9	5.4	1.0	7924741
Acid Extractable Barium (Ba)	ug/g	110	7924874	110	86	0.50	7924741
Acid Extractable Beryllium (Be)	ug/g	0.81	7924874	0.76	0.68	0.20	7924741
Acid Extractable Boron (B)	ug/g	5.8	7924874	9.2	7.2	5.0	7924741
Acid Extractable Cadmium (Cd)	ug/g	0.11	7924874	<0.10	<0.10	0.10	7924741
Acid Extractable Chromium (Cr)	ug/g	24	7924874	24	23	1.0	7924741
Acid Extractable Cobalt (Co)	ug/g	13	7924874	14	13	0.10	7924741
Acid Extractable Copper (Cu)	ug/g	24	7924874	25	25	0.50	7924741
Acid Extractable Lead (Pb)	ug/g	11	7924874	9.1	9.6	1.0	7924741
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	7924874	0.59	0.64	0.50	7924741
Acid Extractable Nickel (Ni)	ug/g	29	7924874	29	29	0.50	7924741
Acid Extractable Selenium (Se)	ug/g	<0.50	7924874	<0.50	<0.50	0.50	7924741
Acid Extractable Silver (Ag)	ug/g	<0.20	7924874	<0.20	<0.20	0.20	7924741
Acid Extractable Thallium (Tl)	ug/g	0.14	7924874	0.13	0.14	0.050	7924741
Acid Extractable Uranium (U)	ug/g	0.59	7924874	0.83	0.70	0.050	7924741
Acid Extractable Vanadium (V)	ug/g	33	7924874	32	31	5.0	7924741
Acid Extractable Zinc (Zn)	ug/g	55	7924874	62	60	5.0	7924741
Acid Extractable Mercury (Hg)	ug/g	<0.050	7924874	<0.050	<0.050	0.050	7924741

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SHA095	SHA098	SHA101		
Sampling Date		2022/03/30 13:00	2022/03/30 13:45	2022/03/30 15:30		
COC Number		855778-02-01	855778-02-01	855778-02-01		
	UNITS	4-BH215-1	4-BH216-1	4-BH217-1A	RDL	QC Batch
Inorganics						
Moisture	%	19	22	21	1.0	7923725
BTEX & F1 Hydrocarbons						
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	7924315
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	7924315
F1 (C6-C10)	ug/g	<10	<10	<10	10	7924315
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7924315
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7925604
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	50	7925604
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7925604
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7925604
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	110	110	110		7924315
4-Bromofluorobenzene	%	81	79	81		7924315
D10-o-Xylene	%	99	100	113		7924315
D4-1,2-Dichloroethane	%	99	100	96		7924315
o-Terphenyl	%	94	92	94		7925604

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C289594
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHA096	SHA099			SHA102		
Sampling Date		2022/03/30 13:17	2022/03/30 13:52			2022/03/30 15:50		
COC Number		855778-02-01	855778-02-01			855778-02-01		
	UNITS	4-BH215-4	4-BH216-2B	RDL	QC Batch	4-BH217-2	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.88	0.99		7923352	0.95		7923352
Inorganics								
Conductivity	mS/cm	0.96	1.3	0.002	7926723	0.82	0.002	7926723
Miscellaneous Parameters								
Grain Size	%					FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%					99	1	7952276
Sieve - #200 (>0.075mm)	%					<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C289594
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA095
Sample ID: 4-BH215-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924874	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA096
Sample ID: 4-BH215-4
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA098
Sample ID: 4-BH216-1
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924741	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA099
Sample ID: 4-BH216-2B
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

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Bureau Veritas Job #: C289594
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHA101
Sample ID: 4-BH217-1A
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924741	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA102
Sample ID: 4-BH217-2
Matrix: Soil

Collected: 2022/03/30
Shipped:
Received: 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample 4-BH217-2 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924315	1,4-Difluorobenzene	2022/04/06	99	60 - 140	97	60 - 140	108	%				
7924315	4-Bromofluorobenzene	2022/04/06	107	60 - 140	111	60 - 140	77	%				
7924315	D10-o-Xylene	2022/04/06	127	60 - 140	105	60 - 140	103	%				
7924315	D4-1,2-Dichloroethane	2022/04/06	88	60 - 140	91	60 - 140	98	%				
7925604	o-Terphenyl	2022/04/06	102	60 - 130	102	60 - 130	102	%				
7923725	Moisture	2022/04/05							0	20		
7924315	Benzene	2022/04/06	108	50 - 140	89	50 - 140	<0.020	ug/g	NC	50		
7924315	Ethylbenzene	2022/04/06	126	50 - 140	104	50 - 140	<0.020	ug/g	NC	50		
7924315	F1 (C6-C10) - BTEX	2022/04/06					<10	ug/g	NC	30		
7924315	F1 (C6-C10)	2022/04/06	95	60 - 140	82	80 - 120	<10	ug/g	NC	30		
7924315	o-Xylene	2022/04/06	125	50 - 140	104	50 - 140	<0.020	ug/g	NC	50		
7924315	p+m-Xylene	2022/04/06	125	50 - 140	104	50 - 140	<0.040	ug/g	NC	50		
7924315	Toluene	2022/04/06	112	50 - 140	93	50 - 140	<0.020	ug/g	NC	50		
7924315	Total Xylenes	2022/04/06					<0.040	ug/g	NC	50		
7924327	Chromium (VI)	2022/04/07	82	70 - 130	89	80 - 120	<0.18	ug/g	NC	35		
7924360	WAD Cyanide (Free)	2022/04/07	93	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7924741	Acid Extractable Antimony (Sb)	2022/04/06	104	75 - 125	104	80 - 120	<0.20	ug/g				
7924741	Acid Extractable Arsenic (As)	2022/04/06	95	75 - 125	96	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Barium (Ba)	2022/04/06	NC	75 - 125	101	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Beryllium (Be)	2022/04/06	98	75 - 125	97	80 - 120	<0.20	ug/g				
7924741	Acid Extractable Boron (B)	2022/04/06	94	75 - 125	98	80 - 120	<5.0	ug/g				
7924741	Acid Extractable Cadmium (Cd)	2022/04/06	101	75 - 125	100	80 - 120	<0.10	ug/g				
7924741	Acid Extractable Chromium (Cr)	2022/04/06	100	75 - 125	99	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Cobalt (Co)	2022/04/06	98	75 - 125	99	80 - 120	<0.10	ug/g				
7924741	Acid Extractable Copper (Cu)	2022/04/06	96	75 - 125	100	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Lead (Pb)	2022/04/06	100	75 - 125	104	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Mercury (Hg)	2022/04/06	93	75 - 125	90	80 - 120	<0.050	ug/g	NC	30		
7924741	Acid Extractable Molybdenum (Mo)	2022/04/06	103	75 - 125	102	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Nickel (Ni)	2022/04/06	98	75 - 125	100	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Selenium (Se)	2022/04/06	96	75 - 125	97	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Silver (Ag)	2022/04/06	102	75 - 125	105	80 - 120	<0.20	ug/g				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924741	Acid Extractable Thallium (Tl)	2022/04/06	102	75 - 125	109	80 - 120	<0.050	ug/g				
7924741	Acid Extractable Uranium (U)	2022/04/06	103	75 - 125	105	80 - 120	<0.050	ug/g				
7924741	Acid Extractable Vanadium (V)	2022/04/06	101	75 - 125	97	80 - 120	<5.0	ug/g				
7924741	Acid Extractable Zinc (Zn)	2022/04/06	103	75 - 125	93	80 - 120	<5.0	ug/g				
7924874	Acid Extractable Antimony (Sb)	2022/04/07	97	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Arsenic (As)	2022/04/07	105	75 - 125	97	80 - 120	<1.0	ug/g	10	30		
7924874	Acid Extractable Barium (Ba)	2022/04/07	106	75 - 125	97	80 - 120	<0.50	ug/g	4.3	30		
7924874	Acid Extractable Beryllium (Be)	2022/04/07	107	75 - 125	95	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Boron (B)	2022/04/07	100	75 - 125	94	80 - 120	<5.0	ug/g	NC	30		
7924874	Acid Extractable Cadmium (Cd)	2022/04/07	100	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
7924874	Acid Extractable Chromium (Cr)	2022/04/07	103	75 - 125	98	80 - 120	<1.0	ug/g	0.11	30		
7924874	Acid Extractable Cobalt (Co)	2022/04/07	104	75 - 125	99	80 - 120	<0.10	ug/g	5.0	30		
7924874	Acid Extractable Copper (Cu)	2022/04/07	NC	75 - 125	97	80 - 120	<0.50	ug/g	4.4	30		
7924874	Acid Extractable Lead (Pb)	2022/04/07	109	75 - 125	101	80 - 120	<1.0	ug/g	3.6	30		
7924874	Acid Extractable Mercury (Hg)	2022/04/06	96	75 - 125	90	80 - 120	<0.050	ug/g				
7924874	Acid Extractable Molybdenum (Mo)	2022/04/07	105	75 - 125	97	80 - 120	<0.50	ug/g	NC	30		
7924874	Acid Extractable Nickel (Ni)	2022/04/07	NC	75 - 125	100	80 - 120	<0.50	ug/g	5.4	30		
7924874	Acid Extractable Selenium (Se)	2022/04/07	104	75 - 125	97	80 - 120	<0.50	ug/g	NC	30		
7924874	Acid Extractable Silver (Ag)	2022/04/07	107	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Thallium (Tl)	2022/04/07	110	75 - 125	104	80 - 120	<0.050	ug/g	NC	30		
7924874	Acid Extractable Uranium (U)	2022/04/07	109	75 - 125	102	80 - 120	<0.050	ug/g	9.3	30		
7924874	Acid Extractable Vanadium (V)	2022/04/07	101	75 - 125	96	80 - 120	<5.0	ug/g	0.69	30		
7924874	Acid Extractable Zinc (Zn)	2022/04/07	104	75 - 125	93	80 - 120	<5.0	ug/g	0.82	30		
7925407	Hot Water Ext. Boron (B)	2022/04/07	112	75 - 125	103	75 - 125	<0.050	ug/g	1.7	40		
7925604	F2 (C10-C16 Hydrocarbons)	2022/04/07	117	60 - 130	113	80 - 120	<10	ug/g	NC	30		
7925604	F3 (C16-C34 Hydrocarbons)	2022/04/07	116	60 - 130	112	80 - 120	<50	ug/g	NC	30		
7925604	F4 (C34-C50 Hydrocarbons)	2022/04/07	116	60 - 130	111	80 - 120	<50	ug/g	NC	30		
7926723	Conductivity	2022/04/07			100	90 - 110	<0.002	mS/cm	9.2	10		
7927392	Available (CaCl2) pH	2022/04/07			100	97 - 103			0.051	N/A		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

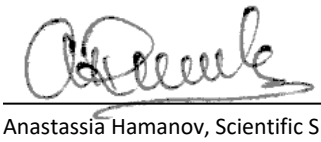
Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas Job #: C289594
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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

05-Apr-22 15:30 Page 1 of 1
Kudrat Bajwa
C289594

ATM ENV-1639

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:
Company Name: #30085 Parkland Fuel Corporation Terrapex	Company Name: #27399 Terrapex Environmental Ltd	Quotation #: B93691 C21481
Attention: Sadiq Mohammed Accounts Payable	Attention: Geoff Lussier Roy Yu	P.O. #: 5212551 OS
Address: 1800, 240 4th Ave SW 90 Scarsdale Rd, Calgary AB T2P 4H4 Toronto, ON	Address: 85 Nebo Road Hamilton ON L8W 2C0	Project: CB4130.02 CT3243.01
Tel: (403) 567-2500 416-245-0011 Fax: (587) 230-3949	Tel: (905) 632-5939 416-245-0011 Fax:	Project Name: Grand Niagara Golf
Email: kristen.burmeister@bvlabs.com accounts.payable@terrapex.com	Email: g.lussier@terrapex.com R.yu@terrapex.com	Site #: BU42302 (005) (RSC4)
		Sampled By: AP

Order #: 855778
COC #: C#855778-02-01
Project Manager: Kudrat Bajwa

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): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
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.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX/PHC F1-F4	Metals and Inorganics	EC/SAR	# of Bottles	Comments
1		4-BH215-1	March 30/22	13:00	S	N	X	X		3	
2		4-BH215-4		13:17					X	1	
3		4-BH215-3		13:15						4	ON HOLD
4		4-BH216-1		13:45			X	X		3	
5		4-BH216-2B		13:52					X	1	
6		4-BH216-2A		13:58						4	ON HOLD
7		4-BH217-1A		15:30			X	X		3	
8		~~4-BH217-2~~									
9		4-BH217-2	↓	15:50	↓	↓			X	5	Please put 2x vials and 2x 120ml jars ON HOLD
10											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak AP	22/04/04	6:30pm	Kavithaselvan elh	2022/04/05	15:30	0

Laboratory Use Only: ONICE
Time Sensitive
Temperature (°C) on Recei: 3/1/3
Custody Seal Present: Yes ✓ Intact: 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

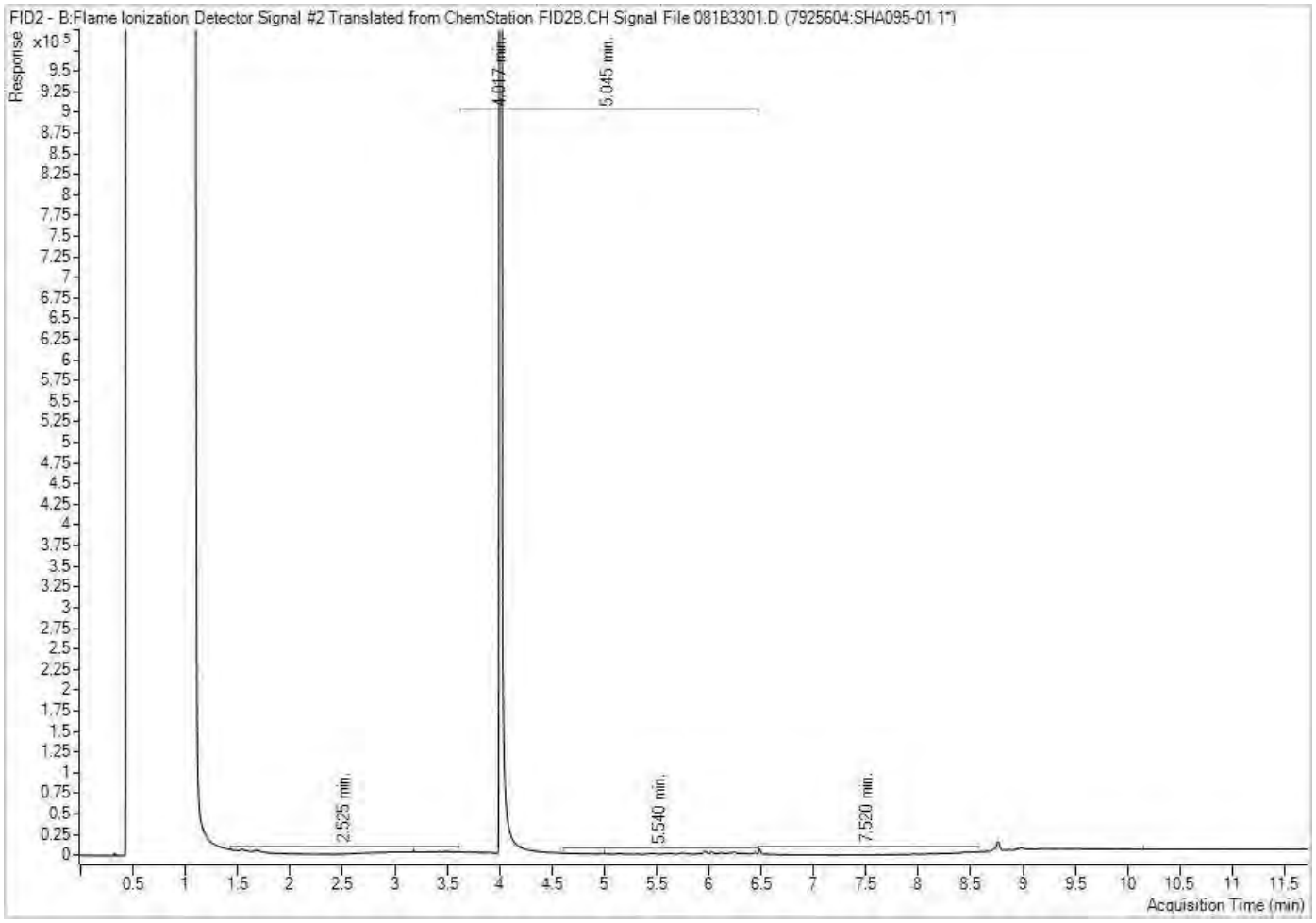
Bureau Veritas Canada (2019) Inc.

BV #C289 311

Bureau Veritas Job #: C289594
Report Date: 2022/04/27
Bureau Veritas Sample: SHA095

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF (RSC4)
Client ID: 4-BH215-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

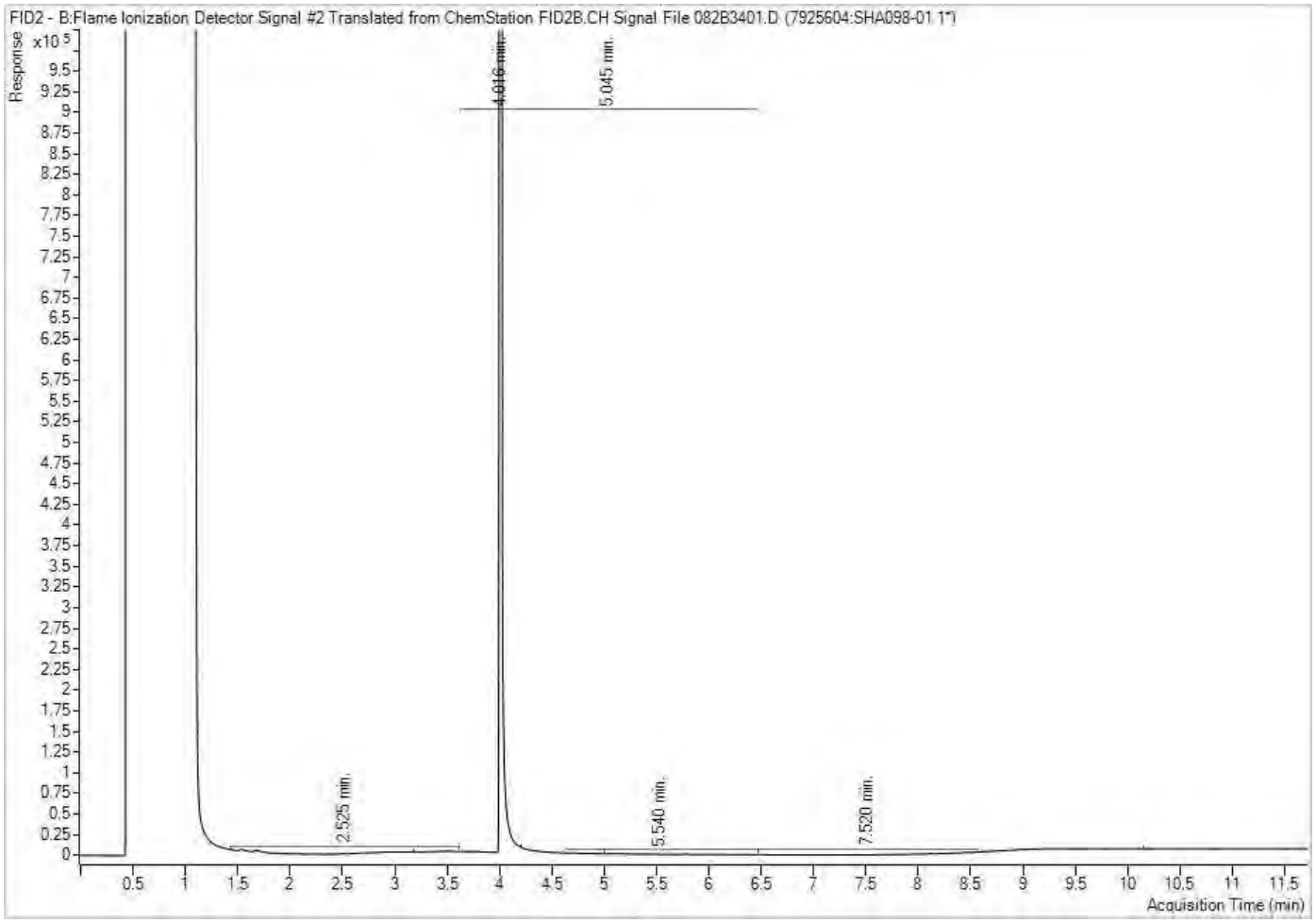


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289594
Report Date: 2022/04/27
Bureau Veritas Sample: SHA098

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF (RSC4)
Client ID: 4-BH216-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

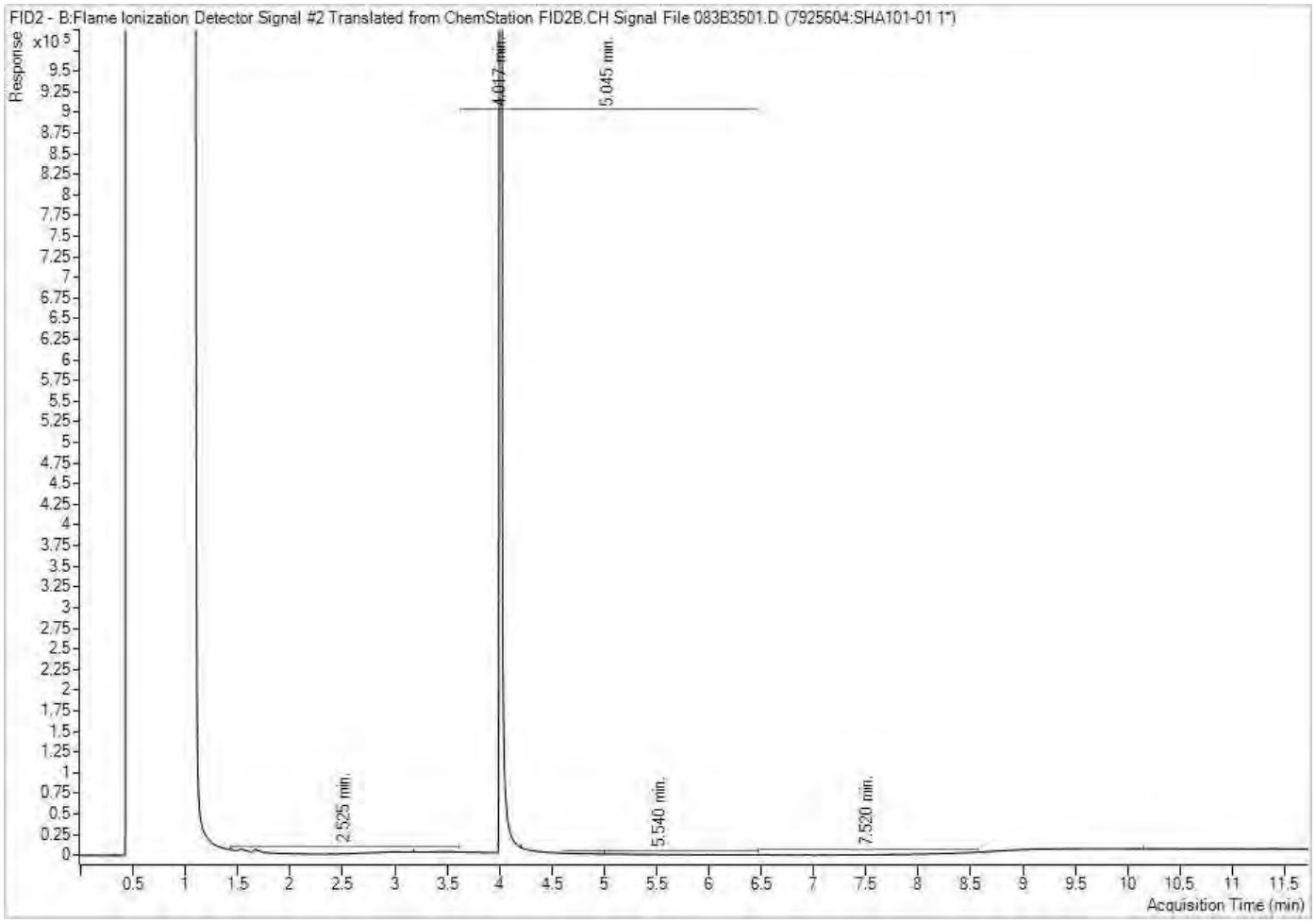


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289594
Report Date: 2022/04/27
Bureau Veritas Sample: SHA101

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF (RSC4)
Client ID: 4-BH217-1A

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Your C.O.C. #: 855778-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128228
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289594
Received: 2022/04/05, 15:30

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	3	2022/04/06	2022/04/07	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	3	2022/04/06	2022/04/07	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	6	2022/04/07	2022/04/07	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	3	2022/04/06	2022/04/07	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2022/04/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	3	2022/04/06	2022/04/07	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	3	2022/04/06	2022/04/06	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2022/04/05	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	3	2022/04/07	2022/04/07	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/08	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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Your C.O.C. #: 855778-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128228
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C289594
Received: 2022/04/05, 15:30
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.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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Bureau Veritas Job #: C289594
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA095			SHA096			SHA096		
Sampling Date		2022/03/30 13:00			2022/03/30 13:17			2022/03/30 13:17		
COC Number		855778-02-01			855778-02-01			855778-02-01		
	UNITS	4-BH215-1	RDL	QC Batch	4-BH215-4	RDL	QC Batch	4-BH215-4 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.69		7923352						
Inorganics										
Conductivity	mS/cm	0.64	0.002	7926723						
Moisture	%				19	1.0	7986740			
Available (CaCl2) pH	pH	7.59		7927392	7.75		7994222			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7924360	<0.01	0.01	7993299			
Chromium (VI)	ug/g	0.36	0.18	7924327	<0.18	0.18	7993725			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.10	0.050	7925407	0.12	0.050	7990894	0.11	0.050	7990894
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7924874	<0.20	0.20	7990745			
Acid Extractable Arsenic (As)	ug/g	4.3	1.0	7924874	5.3	1.0	7990745			
Acid Extractable Barium (Ba)	ug/g	110	0.50	7924874	210	0.50	7990745			
Acid Extractable Beryllium (Be)	ug/g	0.81	0.20	7924874	1.3	0.20	7990745			
Acid Extractable Boron (B)	ug/g	5.8	5.0	7924874	9.2	5.0	7990745			
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.10	7924874	0.11	0.10	7990745			
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7924874	36	1.0	7990745			
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7924874	18	0.10	7990745			
Acid Extractable Copper (Cu)	ug/g	24	0.50	7924874	30	0.50	7990745			
Acid Extractable Lead (Pb)	ug/g	11	1.0	7924874	14	1.0	7990745			
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7924874	<0.50	0.50	7990745			
Acid Extractable Nickel (Ni)	ug/g	29	0.50	7924874	41	0.50	7990745			
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7924874	<0.50	0.50	7990745			
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7924874	<0.20	0.20	7990745			
Acid Extractable Thallium (Tl)	ug/g	0.14	0.050	7924874	0.18	0.050	7990745			
Acid Extractable Uranium (U)	ug/g	0.59	0.050	7924874	0.67	0.050	7990745			
Acid Extractable Vanadium (V)	ug/g	33	5.0	7924874	49	5.0	7990745			
Acid Extractable Zinc (Zn)	ug/g	55	5.0	7924874	71	5.0	7990745			
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7924874	<0.050	0.050	7990745			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHA098	SHA101		
Sampling Date		2022/03/30 13:45	2022/03/30 15:30		
COC Number		855778-02-01	855778-02-01		
	UNITS	4-BH216-1	4-BH217-1A	RDL	QC Batch
Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.97	0.52		7923352
Inorganics					
Conductivity	mS/cm	1.5	0.76	0.002	7926723
Available (CaCl2) pH	pH	7.77	7.61		7927392
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7924360
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7924327
Metals					
Hot Water Ext. Boron (B)	ug/g	0.24	0.082	0.050	7925407
Acid Extractable Antimony (Sb)	ug/g	0.26	<0.20	0.20	7924741
Acid Extractable Arsenic (As)	ug/g	4.9	5.4	1.0	7924741
Acid Extractable Barium (Ba)	ug/g	110	86	0.50	7924741
Acid Extractable Beryllium (Be)	ug/g	0.76	0.68	0.20	7924741
Acid Extractable Boron (B)	ug/g	9.2	7.2	5.0	7924741
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7924741
Acid Extractable Chromium (Cr)	ug/g	24	23	1.0	7924741
Acid Extractable Cobalt (Co)	ug/g	14	13	0.10	7924741
Acid Extractable Copper (Cu)	ug/g	25	25	0.50	7924741
Acid Extractable Lead (Pb)	ug/g	9.1	9.6	1.0	7924741
Acid Extractable Molybdenum (Mo)	ug/g	0.59	0.64	0.50	7924741
Acid Extractable Nickel (Ni)	ug/g	29	29	0.50	7924741
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7924741
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7924741
Acid Extractable Thallium (Tl)	ug/g	0.13	0.14	0.050	7924741
Acid Extractable Uranium (U)	ug/g	0.83	0.70	0.050	7924741
Acid Extractable Vanadium (V)	ug/g	32	31	5.0	7924741
Acid Extractable Zinc (Zn)	ug/g	62	60	5.0	7924741
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7924741

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

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

Bureau Veritas ID		SHA095	SHA098	SHA101		
Sampling Date		2022/03/30 13:00	2022/03/30 13:45	2022/03/30 15:30		
COC Number		855778-02-01	855778-02-01	855778-02-01		
	UNITS	4-BH215-1	4-BH216-1	4-BH217-1A	RDL	QC Batch
Inorganics						
Moisture	%	19	22	21	1.0	7923725
BTEX & F1 Hydrocarbons						
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7924315
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	7924315
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	7924315
F1 (C6-C10)	ug/g	<10	<10	<10	10	7924315
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7924315
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7925604
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	50	7925604
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7925604
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7925604
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	110	110	110		7924315
4-Bromofluorobenzene	%	81	79	81		7924315
D10-o-Xylene	%	99	100	113		7924315
D4-1,2-Dichloroethane	%	99	100	96		7924315
o-Terphenyl	%	94	92	94		7925604

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C289594
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF (RSC4)
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHA096	SHA099			SHA102		
Sampling Date		2022/03/30 13:17	2022/03/30 13:52			2022/03/30 15:50		
COC Number		855778-02-01	855778-02-01			855778-02-01		
	UNITS	4-BH215-4	4-BH216-2B	RDL	QC Batch	4-BH217-2	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.88	0.99		7923352	0.95		7923352
Inorganics								
Conductivity	mS/cm	0.96	1.3	0.002	7926723	0.82	0.002	7926723
Miscellaneous Parameters								
Grain Size	%					FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%					99	1	7952276
Sieve - #200 (>0.075mm)	%					<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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

TEST SUMMARY

Bureau Veritas ID: SHA095 **Collected:** 2022/03/30
Sample ID: 4-BH215-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924874	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA096 **Collected:** 2022/03/30
Sample ID: 4-BH215-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990745	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7986740	N/A	2022/05/10	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA096 Dup **Collected:** 2022/03/30
Sample ID: 4-BH215-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr

Bureau Veritas ID: SHA098 **Collected:** 2022/03/30
Sample ID: 4-BH216-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924741	2022/04/06	2022/04/06	Daniel Teclu

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TEST SUMMARY

Bureau Veritas ID: SHA098 **Collected:** 2022/03/30
Sample ID: 4-BH216-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA099 **Collected:** 2022/03/30
Sample ID: 4-BH216-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA101 **Collected:** 2022/03/30
Sample ID: 4-BH217-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7925407	2022/04/06	2022/04/07	Gagandeep Rai
Free (WAD) Cyanide	TECH	7924360	2022/04/06	2022/04/07	Nimarta Singh
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7924327	2022/04/06	2022/04/07	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7924315	N/A	2022/04/06	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7925604	2022/04/06	2022/04/07	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7924741	2022/04/06	2022/04/06	Daniel Teclu
Moisture	BAL	7923725	N/A	2022/04/05	Mathew Bowles
pH CaCl2 EXTRACT	AT	7927392	2022/04/07	2022/04/07	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

Bureau Veritas ID: SHA102 **Collected:** 2022/03/30
Sample ID: 4-BH217-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7926723	2022/04/07	2022/04/07	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7923352	N/A	2022/04/08	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to sample 4-BH217-2 as per client.

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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924315	1,4-Difluorobenzene	2022/04/06	99	60 - 140	97	60 - 140	108	%				
7924315	4-Bromofluorobenzene	2022/04/06	107	60 - 140	111	60 - 140	77	%				
7924315	D10-o-Xylene	2022/04/06	127	60 - 140	105	60 - 140	103	%				
7924315	D4-1,2-Dichloroethane	2022/04/06	88	60 - 140	91	60 - 140	98	%				
7925604	o-Terphenyl	2022/04/06	102	60 - 130	102	60 - 130	102	%				
7923725	Moisture	2022/04/05							0	20		
7924315	Benzene	2022/04/06	108	50 - 140	89	50 - 140	<0.020	ug/g	NC	50		
7924315	Ethylbenzene	2022/04/06	126	50 - 140	104	50 - 140	<0.020	ug/g	NC	50		
7924315	F1 (C6-C10) - BTEX	2022/04/06					<10	ug/g	NC	30		
7924315	F1 (C6-C10)	2022/04/06	95	60 - 140	82	80 - 120	<10	ug/g	NC	30		
7924315	o-Xylene	2022/04/06	125	50 - 140	104	50 - 140	<0.020	ug/g	NC	50		
7924315	p+m-Xylene	2022/04/06	125	50 - 140	104	50 - 140	<0.040	ug/g	NC	50		
7924315	Toluene	2022/04/06	112	50 - 140	93	50 - 140	<0.020	ug/g	NC	50		
7924315	Total Xylenes	2022/04/06					<0.040	ug/g	NC	50		
7924327	Chromium (VI)	2022/04/07	82	70 - 130	89	80 - 120	<0.18	ug/g	NC	35		
7924360	WAD Cyanide (Free)	2022/04/07	93	75 - 125	93	80 - 120	<0.01	ug/g	NC	35		
7924741	Acid Extractable Antimony (Sb)	2022/04/06	104	75 - 125	104	80 - 120	<0.20	ug/g				
7924741	Acid Extractable Arsenic (As)	2022/04/06	95	75 - 125	96	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Barium (Ba)	2022/04/06	NC	75 - 125	101	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Beryllium (Be)	2022/04/06	98	75 - 125	97	80 - 120	<0.20	ug/g				
7924741	Acid Extractable Boron (B)	2022/04/06	94	75 - 125	98	80 - 120	<5.0	ug/g				
7924741	Acid Extractable Cadmium (Cd)	2022/04/06	101	75 - 125	100	80 - 120	<0.10	ug/g				
7924741	Acid Extractable Chromium (Cr)	2022/04/06	100	75 - 125	99	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Cobalt (Co)	2022/04/06	98	75 - 125	99	80 - 120	<0.10	ug/g				
7924741	Acid Extractable Copper (Cu)	2022/04/06	96	75 - 125	100	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Lead (Pb)	2022/04/06	100	75 - 125	104	80 - 120	<1.0	ug/g				
7924741	Acid Extractable Mercury (Hg)	2022/04/06	93	75 - 125	90	80 - 120	<0.050	ug/g	NC	30		
7924741	Acid Extractable Molybdenum (Mo)	2022/04/06	103	75 - 125	102	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Nickel (Ni)	2022/04/06	98	75 - 125	100	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Selenium (Se)	2022/04/06	96	75 - 125	97	80 - 120	<0.50	ug/g				
7924741	Acid Extractable Silver (Ag)	2022/04/06	102	75 - 125	105	80 - 120	<0.20	ug/g				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7924741	Acid Extractable Thallium (Tl)	2022/04/06	102	75 - 125	109	80 - 120	<0.050	ug/g				
7924741	Acid Extractable Uranium (U)	2022/04/06	103	75 - 125	105	80 - 120	<0.050	ug/g				
7924741	Acid Extractable Vanadium (V)	2022/04/06	101	75 - 125	97	80 - 120	<5.0	ug/g				
7924741	Acid Extractable Zinc (Zn)	2022/04/06	103	75 - 125	93	80 - 120	<5.0	ug/g				
7924874	Acid Extractable Antimony (Sb)	2022/04/07	97	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Arsenic (As)	2022/04/07	105	75 - 125	97	80 - 120	<1.0	ug/g	10	30		
7924874	Acid Extractable Barium (Ba)	2022/04/07	106	75 - 125	97	80 - 120	<0.50	ug/g	4.3	30		
7924874	Acid Extractable Beryllium (Be)	2022/04/07	107	75 - 125	95	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Boron (B)	2022/04/07	100	75 - 125	94	80 - 120	<5.0	ug/g	NC	30		
7924874	Acid Extractable Cadmium (Cd)	2022/04/07	100	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
7924874	Acid Extractable Chromium (Cr)	2022/04/07	103	75 - 125	98	80 - 120	<1.0	ug/g	0.11	30		
7924874	Acid Extractable Cobalt (Co)	2022/04/07	104	75 - 125	99	80 - 120	<0.10	ug/g	5.0	30		
7924874	Acid Extractable Copper (Cu)	2022/04/07	NC	75 - 125	97	80 - 120	<0.50	ug/g	4.4	30		
7924874	Acid Extractable Lead (Pb)	2022/04/07	109	75 - 125	101	80 - 120	<1.0	ug/g	3.6	30		
7924874	Acid Extractable Mercury (Hg)	2022/04/06	96	75 - 125	90	80 - 120	<0.050	ug/g				
7924874	Acid Extractable Molybdenum (Mo)	2022/04/07	105	75 - 125	97	80 - 120	<0.50	ug/g	NC	30		
7924874	Acid Extractable Nickel (Ni)	2022/04/07	NC	75 - 125	100	80 - 120	<0.50	ug/g	5.4	30		
7924874	Acid Extractable Selenium (Se)	2022/04/07	104	75 - 125	97	80 - 120	<0.50	ug/g	NC	30		
7924874	Acid Extractable Silver (Ag)	2022/04/07	107	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7924874	Acid Extractable Thallium (Tl)	2022/04/07	110	75 - 125	104	80 - 120	<0.050	ug/g	NC	30		
7924874	Acid Extractable Uranium (U)	2022/04/07	109	75 - 125	102	80 - 120	<0.050	ug/g	9.3	30		
7924874	Acid Extractable Vanadium (V)	2022/04/07	101	75 - 125	96	80 - 120	<5.0	ug/g	0.69	30		
7924874	Acid Extractable Zinc (Zn)	2022/04/07	104	75 - 125	93	80 - 120	<5.0	ug/g	0.82	30		
7925407	Hot Water Ext. Boron (B)	2022/04/07	112	75 - 125	103	75 - 125	<0.050	ug/g	1.7	40		
7925604	F2 (C10-C16 Hydrocarbons)	2022/04/07	117	60 - 130	113	80 - 120	<10	ug/g	NC	30		
7925604	F3 (C16-C34 Hydrocarbons)	2022/04/07	116	60 - 130	112	80 - 120	<50	ug/g	NC	30		
7925604	F4 (C34-C50 Hydrocarbons)	2022/04/07	116	60 - 130	111	80 - 120	<50	ug/g	NC	30		
7926723	Conductivity	2022/04/07			100	90 - 110	<0.002	mS/cm	9.2	10		
7927392	Available (CaCl2) pH	2022/04/07			100	97 - 103			0.051	N/A		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7986740	Moisture	2022/05/10							1.7	20		
7990745	Acid Extractable Antimony (Sb)	2022/05/13	94	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7990745	Acid Extractable Arsenic (As)	2022/05/13	101	75 - 125	104	80 - 120	<1.0	ug/g	7.2	30		
7990745	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	2.5	30		
7990745	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	105	80 - 120	<0.20	ug/g	6.2	30		
7990745	Acid Extractable Boron (B)	2022/05/13	95	75 - 125	101	80 - 120	<5.0	ug/g	8.4	30		
7990745	Acid Extractable Cadmium (Cd)	2022/05/13	101	75 - 125	99	80 - 120	<0.10	ug/g	NC	30		
7990745	Acid Extractable Chromium (Cr)	2022/05/13	NC	75 - 125	106	80 - 120	<1.0	ug/g	6.9	30		
7990745	Acid Extractable Cobalt (Co)	2022/05/13	100	75 - 125	104	80 - 120	<0.10	ug/g	7.6	30		
7990745	Acid Extractable Copper (Cu)	2022/05/13	90	75 - 125	102	80 - 120	<0.50	ug/g	4.9	30		
7990745	Acid Extractable Lead (Pb)	2022/05/13	100	75 - 125	107	80 - 120	<1.0	ug/g	6.4	30		
7990745	Acid Extractable Mercury (Hg)	2022/05/13	91	75 - 125	93	80 - 120	<0.050	ug/g				
7990745	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7990745	Acid Extractable Nickel (Ni)	2022/05/13	97	75 - 125	104	80 - 120	<0.50	ug/g	5.0	30		
7990745	Acid Extractable Selenium (Se)	2022/05/13	101	75 - 125	104	80 - 120	<0.50	ug/g	NC	30		
7990745	Acid Extractable Silver (Ag)	2022/05/13	104	75 - 125	104	80 - 120	<0.20	ug/g	NC	30		
7990745	Acid Extractable Thallium (Tl)	2022/05/13	104	75 - 125	105	80 - 120	<0.050	ug/g	11	30		
7990745	Acid Extractable Uranium (U)	2022/05/13	106	75 - 125	107	80 - 120	<0.050	ug/g	9.2	30		
7990745	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	104	80 - 120	<5.0	ug/g	8.2	30		
7990745	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	101	80 - 120	<5.0	ug/g	2.2	30		
7990894	Hot Water Ext. Boron (B)	2022/05/13	104	75 - 125	93	75 - 125	<0.050	ug/g	5.2	40		
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7994222	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.79	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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).

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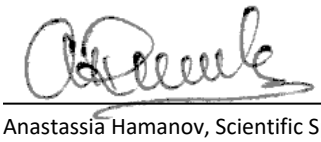
VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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05-Apr-22 15:30 Page 1 of 1

Kudrat Bajwa

C289594

ATM ENV-1639

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:
Company Name: ~~#30085 Parkland Fuel Corporation~~ Terrapex	Company Name: ~~#27399 Terrapex Environmental Ltd~~	Quotation #: ~~B93691~~ C21481
Attention: ~~Sadiq Mohammed~~ Accounts Payable	Attention: ~~Geoff Lussier~~ Roy Yu	P.O. #: ~~5212551 OS~~
Address: ~~1800, 240 4th Ave SW~~ 90 Scarsdale Rd, ~~Calgary AB T2P 4H4~~ Toronto, ON	Address: ~~85 Nebo Road~~ ~~Hamilton ON L8W 2C0~~	Project: ~~CB4130.02~~ CT3243.01
Tel: ~~(403) 567-2500~~ 416-245-0011 Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ 416-245-0011 Fax:	Project Name: Grand Niagara Golf
Email: ~~kristen.burmeister@bvlabs.com~~ accounts.payable@terrapex.com	Email: ~~g.lussier@terrapex.com~~ R.Yu@terrapex.com	Site #: ~~BU42302 (005)~~ (RSC4)
		Sampled By: AP

COC #: C#855778-02-01 | Project Manager: Kudrat Bajwa | Bottle Order #: 855778

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): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX/PHC F1-F4	Metals and Inorganics	EC/SAR	# of Bottles	Comments
1		4-BH215-1	March 30/22	13:00	S	N	X	X		3	
2		4-BH215-4		13:17					X	1	
3		4-BH215-3		13:15						4	ON HOLD
4		4-BH216-1		13:45			X	X		3	
5		4-BH216-2B		13:52					X	~~2~~ 1	
6		4-BH216-2A		13:58						4	ON HOLD
7		4-BH217-1A		15:30			X	X		3	
8		~~4-BH217-2~~									
9		4-BH217-2	↓	15:50	↓	↓			X	5	Please put 2x vials and 2x 120ml jars ON HOLD
10											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Alex Parniak AP	22/04/04	6:30pm	Kavithaselvan elh	2022/04/04	15:30	0

Laboratory Use Only ONICE

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3/1/3	Present	✓	
		Intact		✓

* 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

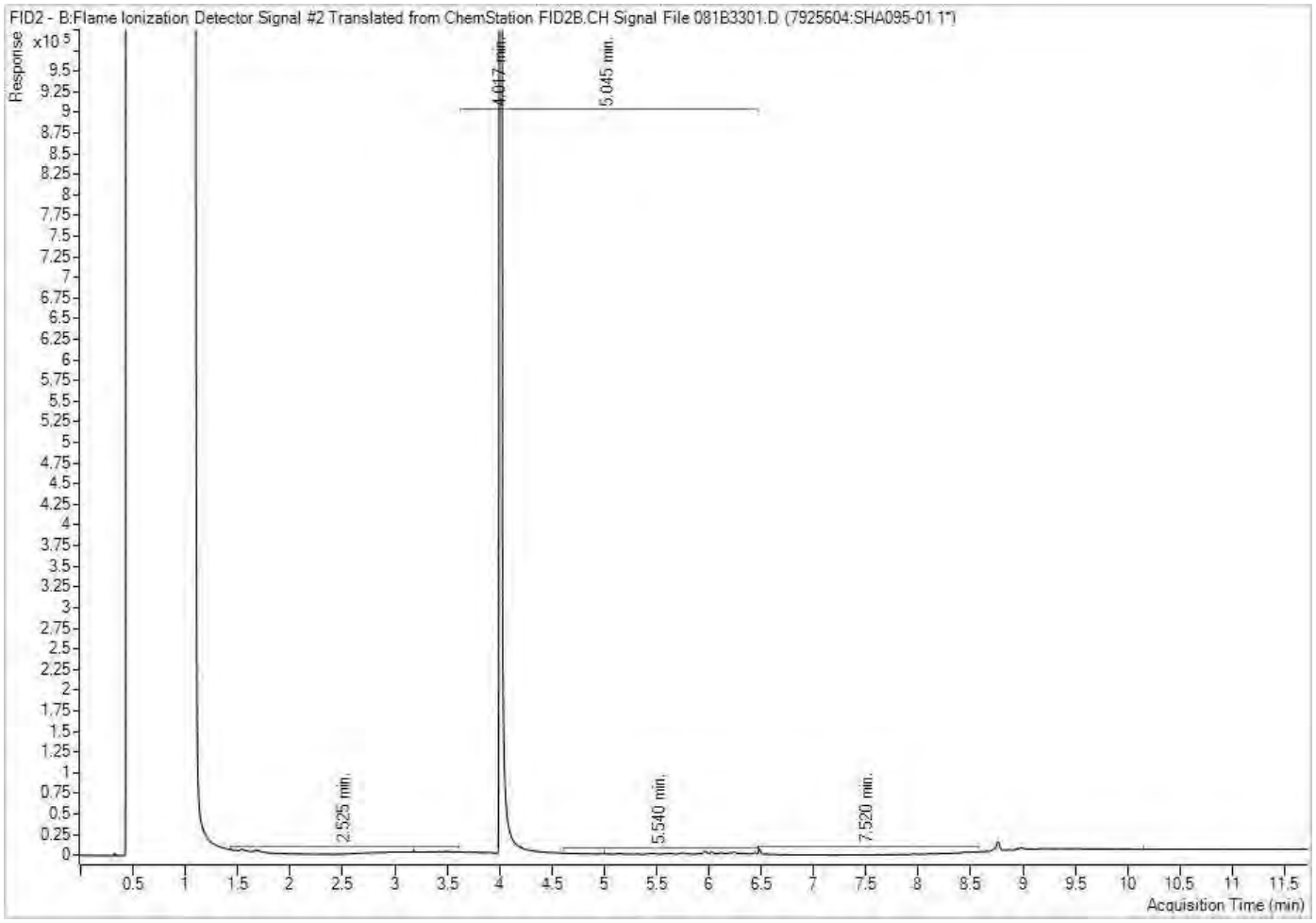
Bureau Veritas Canada (2019) Inc.

BV #5114 311

Bureau Veritas Job #: C289594
Report Date: 2022/05/17
Bureau Veritas Sample: SHA095

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF (RSC4)
Client ID: 4-BH215-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

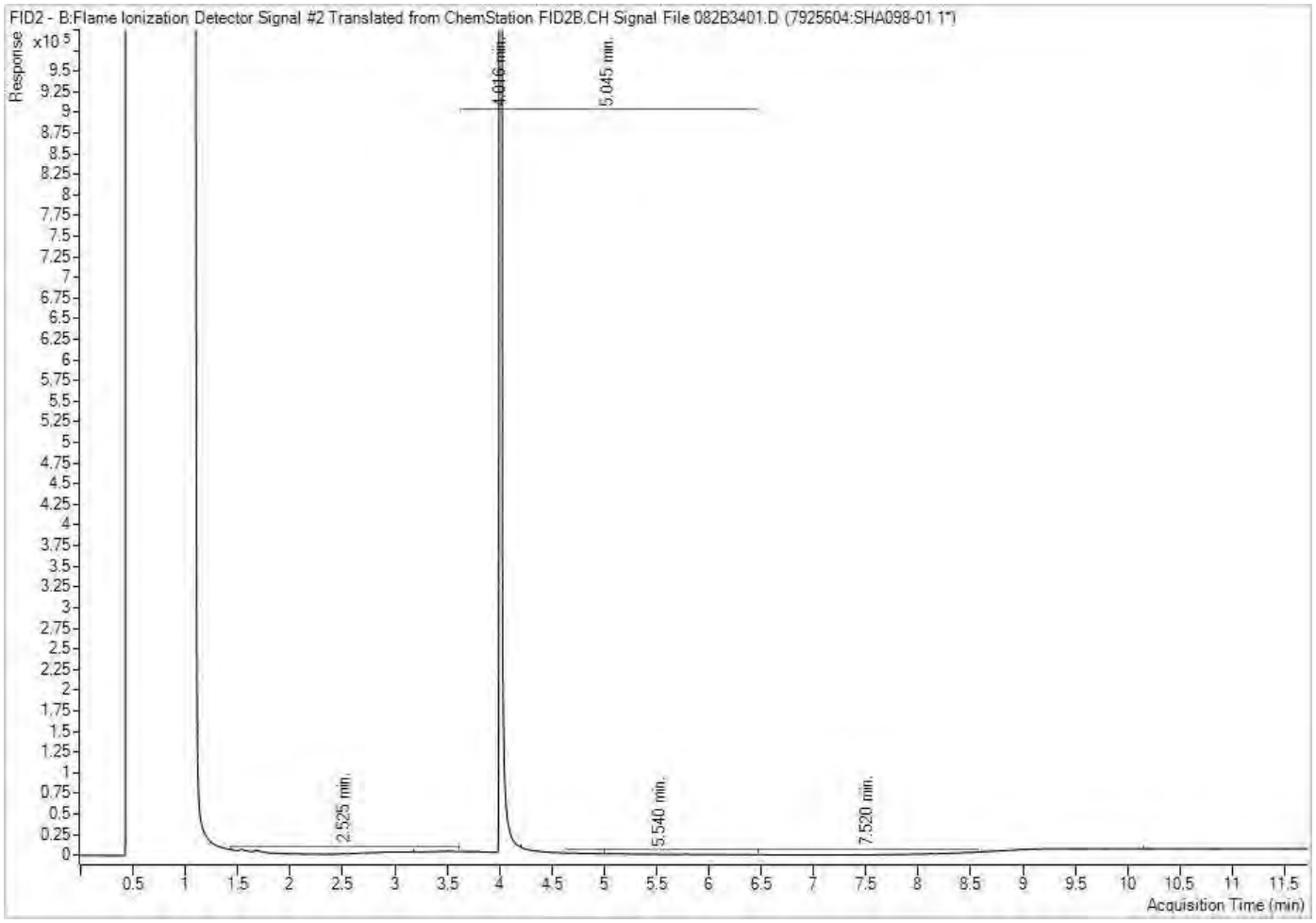


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C289594
Report Date: 2022/05/17
Bureau Veritas Sample: SHA098

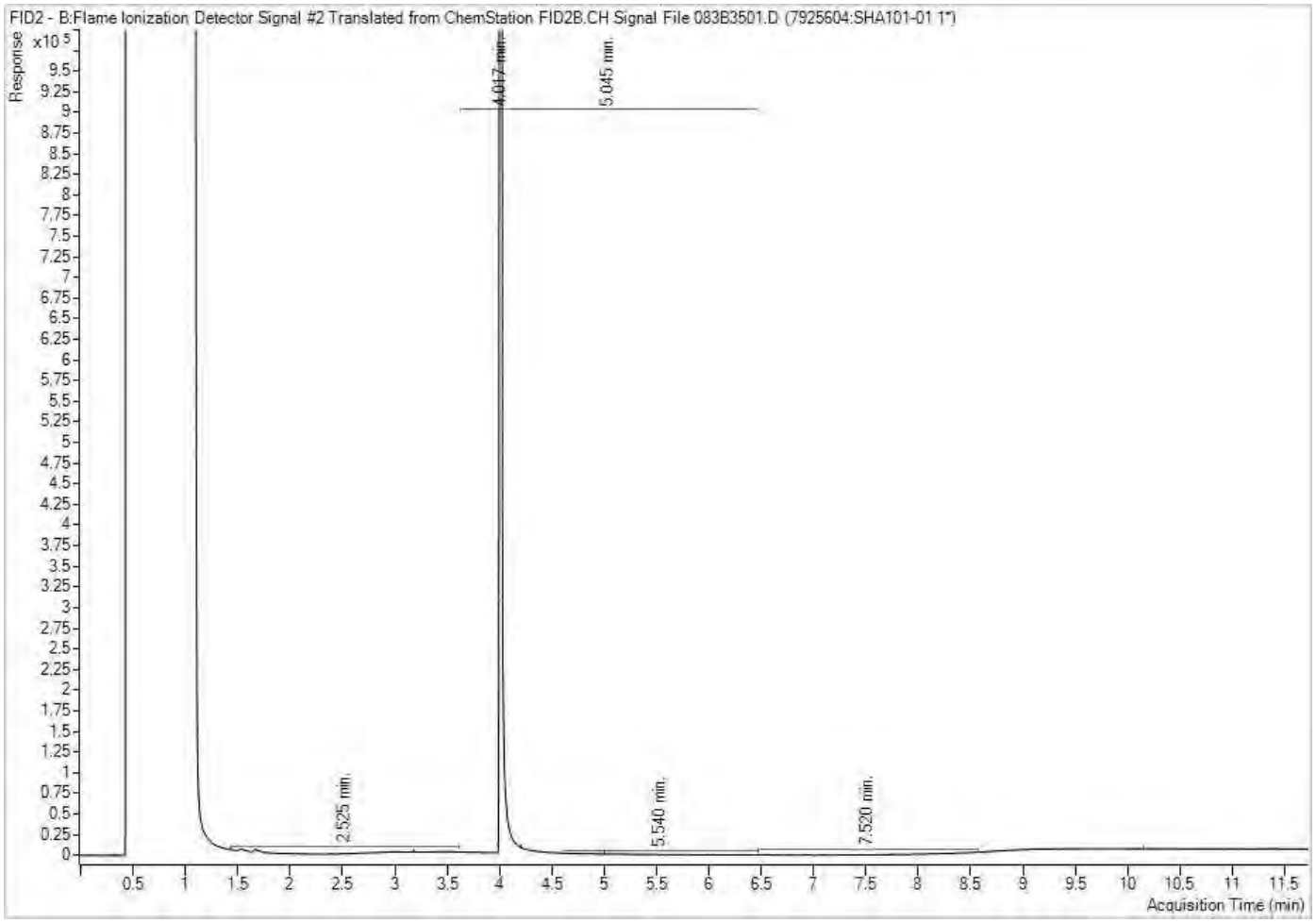
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF (RSC4)
Client ID: 4-BH216-1

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.

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.

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF RSC4
Your C.O.C. #: 849280-01-01, 827286-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101415
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291245
Received: 2022/04/06, 16:10

Sample Matrix: Soil
Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/04/12	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	7	2022/04/11	2022/04/11	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	7	2022/04/11	2022/04/12	CAM SOP-00457	OMOE E3015 m
Conductivity	4	2022/04/11	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	2	2022/04/12	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	7	2022/04/08	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	7	2022/04/08	2022/04/12	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	9	N/A	2022/04/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	9	2022/04/11	2022/04/12	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	7	2022/04/11	2022/04/12	CAM SOP-00447	EPA 6020B m
Moisture	9	N/A	2022/04/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	6	2022/04/11	2022/04/12	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	7	2022/04/11	2022/04/11	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	13	N/A	2022/04/13	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

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF RSC4
Your C.O.C. #: 849280-01-01, 827286-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/27
Report #: R7101415
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291245
Received: 2022/04/06, 16:10

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

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ149	SHJ150			SHJ150		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00			2022/03/31 09:00		
COC Number		849280-01-01	849280-01-01			849280-01-01		
	UNITS	4-MW218-1	4-MW218-91	RDL	QC Batch	4-MW218-91 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.64	0.58		7926285			
Inorganics								
Conductivity	mS/cm	3.5	3.3	0.002	7935115			
Available (CaCl2) pH	pH	7.82	7.76		7933708	7.80		7933708
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7933314			
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7929716	<0.18	0.18	7929716
Metals								
Hot Water Ext. Boron (B)	ug/g	0.085	0.14	0.050	7932848			
Acid Extractable Antimony (Sb)	ug/g	0.23	<0.20	0.20	7933657			
Acid Extractable Arsenic (As)	ug/g	5.2	4.6	1.0	7933657			
Acid Extractable Barium (Ba)	ug/g	140	66	0.50	7933657			
Acid Extractable Beryllium (Be)	ug/g	1.1	0.67	0.20	7933657			
Acid Extractable Boron (B)	ug/g	11	7.3	5.0	7933657			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7933657			
Acid Extractable Chromium (Cr)	ug/g	30	22	1.0	7933657			
Acid Extractable Cobalt (Co)	ug/g	16	11	0.10	7933657			
Acid Extractable Copper (Cu)	ug/g	24	20	0.50	7933657			
Acid Extractable Lead (Pb)	ug/g	11	7.1	1.0	7933657			
Acid Extractable Molybdenum (Mo)	ug/g	0.67	0.54	0.50	7933657			
Acid Extractable Nickel (Ni)	ug/g	35	26	0.50	7933657			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7933657			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7933657			
Acid Extractable Thallium (Tl)	ug/g	0.16	0.14	0.050	7933657			
Acid Extractable Uranium (U)	ug/g	1.0	0.86	0.050	7933657			
Acid Extractable Vanadium (V)	ug/g	40	29	5.0	7933657			
Acid Extractable Zinc (Zn)	ug/g	69	55	5.0	7933657			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7933657			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas Job #: C291245
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ154	SHJ161			SHJ161		
Sampling Date		2022/03/31 13:00	2022/04/01 16:00			2022/04/01 16:00		
COC Number		849280-01-01	827286-01-01			827286-01-01		
	UNITS	4-MW219-1	4-MW224-1	RDL	QC Batch	4-MW224-1 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.71	0.41		7926285			
Inorganics								
Conductivity	mS/cm	1.2	0.27	0.002	7935115			
Available (CaCl2) pH	pH	7.85	7.80		7933708			
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7933314	<0.01	0.01	7933314
Chromium (VI)	ug/g	<0.18	0.24	0.18	7929716			
Metals								
Hot Water Ext. Boron (B)	ug/g	0.33	0.071	0.050	7932848			
Acid Extractable Antimony (Sb)	ug/g	0.23	<0.20	0.20	7933657			
Acid Extractable Arsenic (As)	ug/g	5.3	4.6	1.0	7933657			
Acid Extractable Barium (Ba)	ug/g	150	130	0.50	7933657			
Acid Extractable Beryllium (Be)	ug/g	1.1	0.80	0.20	7933657			
Acid Extractable Boron (B)	ug/g	12	8.8	5.0	7933657			
Acid Extractable Cadmium (Cd)	ug/g	0.11	<0.10	0.10	7933657			
Acid Extractable Chromium (Cr)	ug/g	31	24	1.0	7933657			
Acid Extractable Cobalt (Co)	ug/g	17	13	0.10	7933657			
Acid Extractable Copper (Cu)	ug/g	26	23	0.50	7933657			
Acid Extractable Lead (Pb)	ug/g	11	8.7	1.0	7933657			
Acid Extractable Molybdenum (Mo)	ug/g	0.73	0.50	0.50	7933657			
Acid Extractable Nickel (Ni)	ug/g	37	30	0.50	7933657			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7933657			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7933657			
Acid Extractable Thallium (Tl)	ug/g	0.19	0.16	0.050	7933657			
Acid Extractable Uranium (U)	ug/g	1.1	0.78	0.050	7933657			
Acid Extractable Vanadium (V)	ug/g	41	34	5.0	7933657			
Acid Extractable Zinc (Zn)	ug/g	77	59	5.0	7933657			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7933657			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ164			SHJ164			SHJ165		
Sampling Date		2022/04/04 09:00			2022/04/04 09:00			2022/04/04 09:00		
COC Number		827286-01-01			827286-01-01			827286-01-01		
	UNITS	4-MW225-1	RDL	QC Batch	4-MW225-1 Lab-Dup	RDL	QC Batch	4-MW225-91	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	1.4		7926285				1.3		7926285
Inorganics										
Conductivity	mS/cm	0.85	0.002	7935115				0.79	0.002	7935115
Available (CaCl2) pH	pH	7.94		7933708				7.82		7933708
WAD Cyanide (Free)	ug/g	<0.01	0.01	7933314				<0.01	0.01	7933314
Chromium (VI)	ug/g	<0.18	0.18	7929716				0.30	0.18	7929716
Metals										
Hot Water Ext. Boron (B)	ug/g	0.094	0.050	7932848	0.085	0.050	7932848	0.054	0.050	7932848
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7933657				<0.20	0.20	7933657
Acid Extractable Arsenic (As)	ug/g	4.4	1.0	7933657				4.8	1.0	7933657
Acid Extractable Barium (Ba)	ug/g	150	0.50	7933657				200	0.50	7933657
Acid Extractable Beryllium (Be)	ug/g	0.96	0.20	7933657				1.2	0.20	7933657
Acid Extractable Boron (B)	ug/g	11	5.0	7933657				12	5.0	7933657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7933657				0.14	0.10	7933657
Acid Extractable Chromium (Cr)	ug/g	28	1.0	7933657				34	1.0	7933657
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7933657				17	0.10	7933657
Acid Extractable Copper (Cu)	ug/g	24	0.50	7933657				27	0.50	7933657
Acid Extractable Lead (Pb)	ug/g	10	1.0	7933657				12	1.0	7933657
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7933657				<0.50	0.50	7933657
Acid Extractable Nickel (Ni)	ug/g	34	0.50	7933657				40	0.50	7933657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7933657				<0.50	0.50	7933657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7933657				<0.20	0.20	7933657
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7933657				0.19	0.050	7933657
Acid Extractable Uranium (U)	ug/g	0.95	0.050	7933657				1.0	0.050	7933657
Acid Extractable Vanadium (V)	ug/g	37	5.0	7933657				45	5.0	7933657
Acid Extractable Zinc (Zn)	ug/g	64	5.0	7933657				74	5.0	7933657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7933657				<0.050	0.050	7933657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ168		
Sampling Date		2022/04/04 15:00		
COC Number		827286-01-01		
	UNITS	4-MW226-1	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.68		7926285
Inorganics				
Conductivity	mS/cm	0.93	0.002	7935115
Available (CaCl2) pH	pH	6.77		7933708
WAD Cyanide (Free)	ug/g	<0.01	0.01	7933314
Chromium (VI)	ug/g	0.24	0.18	7929716
Metals				
Hot Water Ext. Boron (B)	ug/g	0.073	0.050	7932848
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7933657
Acid Extractable Arsenic (As)	ug/g	4.7	1.0	7933657
Acid Extractable Barium (Ba)	ug/g	180	0.50	7933657
Acid Extractable Beryllium (Be)	ug/g	1.3	0.20	7933657
Acid Extractable Boron (B)	ug/g	9.1	5.0	7933657
Acid Extractable Cadmium (Cd)	ug/g	0.13	0.10	7933657
Acid Extractable Chromium (Cr)	ug/g	32	1.0	7933657
Acid Extractable Cobalt (Co)	ug/g	22	0.10	7933657
Acid Extractable Copper (Cu)	ug/g	23	0.50	7933657
Acid Extractable Lead (Pb)	ug/g	14	1.0	7933657
Acid Extractable Molybdenum (Mo)	ug/g	0.55	0.50	7933657
Acid Extractable Nickel (Ni)	ug/g	35	0.50	7933657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7933657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7933657
Acid Extractable Thallium (Tl)	ug/g	0.19	0.050	7933657
Acid Extractable Uranium (U)	ug/g	0.80	0.050	7933657
Acid Extractable Vanadium (V)	ug/g	46	5.0	7933657
Acid Extractable Zinc (Zn)	ug/g	71	5.0	7933657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7933657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SHJ149	SHJ150	SHJ161	SHJ164	SHJ165	SHJ168		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00	2022/04/01 16:00	2022/04/04 09:00	2022/04/04 09:00	2022/04/04 15:00		
COC Number		849280-01-01	849280-01-01	827286-01-01	827286-01-01	827286-01-01	827286-01-01		
	UNITS	4-MW218-1	4-MW218-91	4-MW224-1	4-MW225-1	4-MW225-91	4-MW226-1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	7926278
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Surrogate Recovery (%)									
D10-Anthracene	%	99	102	99	102	94	99		7934381
D14-Terphenyl (FS)	%	89	91	88	91	84	88		7934381
D8-Acenaphthylene	%	90	92	89	90	85	88		7934381

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C291245
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

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

Bureau Veritas ID		SHJ149	SHJ150	SHJ153	SHJ154		SHJ161		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00	2022/03/31 11:00	2022/03/31 13:00		2022/04/01 16:00		
COC Number		849280-01-01	849280-01-01	849280-01-01	849280-01-01		827286-01-01		
	UNITS	4-MW218-1	4-MW218-91	4-MW218-4	4-MW219-1	QC Batch	4-MW224-1	RDL	QC Batch
Inorganics									
Moisture	%	21	21	22	19	7926858	18	1.0	7926858
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	7932038	<0.040	0.040	7932038
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	7932038	<0.040	0.040	7932038
F1 (C6-C10)	ug/g	<10	<10	<10	<10	7932038	<10	10	7932038
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	7932038	<10	10	7932038
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	7935118	<10	10	7935088
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	7935118	<50	50	7935088
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	7935118	<50	50	7935088
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	7935118	Yes		7935088
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	103	104	103	104	7932038	104		7932038
4-Bromofluorobenzene	%	96	96	97	96	7932038	88		7932038
D10-o-Xylene	%	114	128	103	114	7932038	121		7932038
D4-1,2-Dichloroethane	%	104	105	108	106	7932038	105		7932038
o-Terphenyl	%	97	97	96	98	7935118	90		7935088

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SHJ161			SHJ164		SHJ165	SHJ167		
Sampling Date		2022/04/01 16:00			2022/04/04 09:00		2022/04/04 09:00	2022/04/04 10:30		
COC Number		827286-01-01			827286-01-01		827286-01-01	827286-01-01		
	UNITS	4-MW224-1 Lab-Dup	RDL	QC Batch	4-MW225-1	QC Batch	4-MW225-91	4-MW225-5B	RDL	QC Batch
Inorganics										
Moisture	%				21	7926858	25	27	1.0	7926858
BTEX & F1 Hydrocarbons										
Benzene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
Toluene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
Ethylbenzene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
o-Xylene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
p+m-Xylene	ug/g				<0.040	7932038	<0.040	<0.040	0.040	7932038
Total Xylenes	ug/g				<0.040	7932038	<0.040	<0.040	0.040	7932038
F1 (C6-C10)	ug/g				<10	7932038	<10	<10	10	7932038
F1 (C6-C10) - BTEX	ug/g				<10	7932038	<10	<10	10	7932038
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7935088	<10	7934970	<10	11	10	7935118
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7935088	<50	7934970	<50	60	50	7935118
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7935088	<50	7934970	<50	<50	50	7935118
Reached Baseline at C50	ug/g	Yes		7935088	Yes	7934970	Yes	Yes		7935118
Surrogate Recovery (%)										
1,4-Difluorobenzene	%				104	7932038	103	105		7932038
4-Bromofluorobenzene	%				93	7932038	94	99		7932038
D10-o-Xylene	%				124	7932038	120	111		7932038
D4-1,2-Dichloroethane	%				106	7932038	107	101		7932038
o-Terphenyl	%	88		7935088	94	7934970	98	103		7935118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SHJ167			SHJ168		
Sampling Date		2022/04/04 10:30			2022/04/04 15:00		
COC Number		827286-01-01			827286-01-01		
	UNITS	4-MW225-5B Lab-Dup	RDL	QC Batch	4-MW226-1	RDL	QC Batch
Inorganics							
Moisture	%	26	1.0	7926858	19	1.0	7926858
BTEX & F1 Hydrocarbons							
Benzene	ug/g				<0.020	0.020	7932038
Toluene	ug/g				<0.020	0.020	7932038
Ethylbenzene	ug/g				<0.020	0.020	7932038
o-Xylene	ug/g				<0.020	0.020	7932038
p+m-Xylene	ug/g				<0.040	0.040	7932038
Total Xylenes	ug/g				<0.040	0.040	7932038
F1 (C6-C10)	ug/g				<10	10	7932038
F1 (C6-C10) - BTEX	ug/g				<10	10	7932038
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g				<10	10	7935118
F3 (C16-C34 Hydrocarbons)	ug/g				<50	50	7935118
F4 (C34-C50 Hydrocarbons)	ug/g				<50	50	7935118
Reached Baseline at C50	ug/g				Yes		7935118
Surrogate Recovery (%)							
1,4-Difluorobenzene	%				103		7932038
4-Bromofluorobenzene	%				96		7932038
D10-o-Xylene	%				112		7932038
D4-1,2-Dichloroethane	%				107		7932038
o-Terphenyl	%				102		7935118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C291245
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHJ151	SHJ152			SHJ153	SHJ153		
Sampling Date		2022/03/31 10:00	2022/03/31 10:00			2022/03/31 11:00	2022/03/31 11:00		
COC Number		849280-01-01	849280-01-01			849280-01-01	849280-01-01		
	UNITS	4-MW218-3	4-MW218-93	RDL	QC Batch	4-MW218-4	4-MW218-4 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	1.3	0.87		7926285				
Inorganics									
Conductivity	mS/cm	2.4	3.7	0.002	7935115				
Miscellaneous Parameters									
Grain Size	%					FINE	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%					99	99	1	7952276
Sieve - #200 (>0.075mm)	%					1	1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		SHJ155	SHJ162		SHJ162			SHJ163		
Sampling Date		2022/03/31 13:30	2022/04/01 16:30		2022/04/01 16:30			2022/04/01 17:00		
COC Number		849280-01-01	827286-01-01		827286-01-01			827286-01-01		
	UNITS	4-MW219-2	4-MW224-3	QC Batch	4-MW224-3 Lab-Dup	RDL	QC Batch	4-MW224-4	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.70	0.32	7926285						
Inorganics										
Conductivity	mS/cm	0.40	0.20	7933957	0.19	0.002	7933957			
Miscellaneous Parameters										
Grain Size	%							FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%							100	1	7952276
Sieve - #200 (>0.075mm)	%							<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHJ166	SHJ169		
Sampling Date		2022/04/04 10:00	2022/04/04 15:30		
COC Number		827286-01-01	827286-01-01		
	UNITS	4-MW225-3A	4-MW226-3	RDL	QC Batch
Calculated Parameters					
Sodium Adsorption Ratio	N/A	1.4	0.99		7926285
Inorganics					
Conductivity	mS/cm	1.7	1.1	0.002	7933957

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C291245
Report Date: 2022/04/27

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHJ149
Sample ID: 4-MW218-1
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ150
Sample ID: 4-MW218-91
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ150 Dup
Sample ID: 4-MW218-91
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake

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TEST SUMMARY

Bureau Veritas ID: SHJ151 **Collected:** 2022/03/31
Sample ID: 4-MW218-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7935115	2022/04/12	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ152 **Collected:** 2022/03/31
Sample ID: 4-MW218-93 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7935115	2022/04/12	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ153 **Collected:** 2022/03/31
Sample ID: 4-MW218-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

Bureau Veritas ID: SHJ153 Dup **Collected:** 2022/03/31
Sample ID: 4-MW218-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

Bureau Veritas ID: SHJ154 **Collected:** 2022/03/31
Sample ID: 4-MW219-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SHJ155 **Collected:** 2022/03/31
Sample ID: 4-MW219-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ161 **Collected:** 2022/04/01
Sample ID: 4-MW224-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935088	2022/04/11	2022/04/12	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ161 Dup **Collected:** 2022/04/01
Sample ID: 4-MW224-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935088	2022/04/11	2022/04/12	(Kent) Maolin Li

Bureau Veritas ID: SHJ162 **Collected:** 2022/04/01
Sample ID: 4-MW224-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ162 Dup **Collected:** 2022/04/01
Sample ID: 4-MW224-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran

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TEST SUMMARY

Bureau Veritas ID: SHJ163 **Collected:** 2022/04/01
Sample ID: 4-MW224-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

Bureau Veritas ID: SHJ164 **Collected:** 2022/04/04
Sample ID: 4-MW225-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934970	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ164 Dup **Collected:** 2022/04/04
Sample ID: 4-MW225-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai

Bureau Veritas ID: SHJ165 **Collected:** 2022/04/04
Sample ID: 4-MW225-91 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SHJ166 **Collected:** 2022/04/04
Sample ID: 4-MW225-3A **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ167 **Collected:** 2022/04/04
Sample ID: 4-MW225-5B **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles

Bureau Veritas ID: SHJ167 Dup **Collected:** 2022/04/04
Sample ID: 4-MW225-5B **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles

Bureau Veritas ID: SHJ168 **Collected:** 2022/04/04
Sample ID: 4-MW226-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ169 **Collected:** 2022/04/04
Sample ID: 4-MW226-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

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GENERAL COMMENTS

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

Package 1	3.7°C

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 4-MW218-4 and 4-MW224-4 as per client.

Sample SHJ149 [4-MW218-1] : 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 SHJ150 [4-MW218-91] : 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 SHJ153 [4-MW218-4] : 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 SHJ154 [4-MW219-1] : 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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7932038	1,4-Difluorobenzene	2022/04/11	100	60 - 140	101	60 - 140	103	%				
7932038	4-Bromofluorobenzene	2022/04/11	100	60 - 140	98	60 - 140	94	%				
7932038	D10-o-Xylene	2022/04/11	122	60 - 140	105	60 - 140	100	%				
7932038	D4-1,2-Dichloroethane	2022/04/11	99	60 - 140	101	60 - 140	105	%				
7934381	D10-Anthracene	2022/04/12	98	50 - 130	100	50 - 130	100	%				
7934381	D14-Terphenyl (FS)	2022/04/12	91	50 - 130	89	50 - 130	86	%				
7934381	D8-Acenaphthylene	2022/04/12	92	50 - 130	95	50 - 130	88	%				
7934970	o-Terphenyl	2022/04/12	95	60 - 130	92	60 - 130	97	%				
7935088	o-Terphenyl	2022/04/12	92	60 - 130	90	60 - 130	93	%				
7935118	o-Terphenyl	2022/04/12	97	60 - 130	98	60 - 130	102	%				
7926858	Moisture	2022/04/07							3.0	20		
7929716	Chromium (VI)	2022/04/12	75	70 - 130	86	80 - 120	<0.18	ug/g	NC	35		
7932038	Benzene	2022/04/11	120	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7932038	Ethylbenzene	2022/04/11	136	50 - 140	121	50 - 140	<0.020	ug/g	NC	50		
7932038	F1 (C6-C10) - BTEX	2022/04/11					<10	ug/g	NC	30		
7932038	F1 (C6-C10)	2022/04/11	105	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7932038	o-Xylene	2022/04/11	130	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7932038	p+m-Xylene	2022/04/11	127	50 - 140	111	50 - 140	<0.040	ug/g	NC	50		
7932038	Toluene	2022/04/11	114	50 - 140	102	50 - 140	<0.020	ug/g	NC	50		
7932038	Total Xylenes	2022/04/11					<0.040	ug/g	NC	50		
7932848	Hot Water Ext. Boron (B)	2022/04/11	111	75 - 125	100	75 - 125	<0.050	ug/g	10	40		
7933314	WAD Cyanide (Free)	2022/04/12	91	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		
7933657	Acid Extractable Antimony (Sb)	2022/04/12	98	75 - 125	104	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Arsenic (As)	2022/04/12	97	75 - 125	98	80 - 120	<1.0	ug/g	NC	30		
7933657	Acid Extractable Barium (Ba)	2022/04/12	89	75 - 125	96	80 - 120	<0.50	ug/g	11	30		
7933657	Acid Extractable Beryllium (Be)	2022/04/12	98	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Boron (B)	2022/04/12	95	75 - 125	98	80 - 120	<5.0	ug/g	NC	30		
7933657	Acid Extractable Cadmium (Cd)	2022/04/12	98	75 - 125	101	80 - 120	<0.10	ug/g	NC	30		
7933657	Acid Extractable Chromium (Cr)	2022/04/12	94	75 - 125	100	80 - 120	<1.0	ug/g	13	30		
7933657	Acid Extractable Cobalt (Co)	2022/04/12	98	75 - 125	100	80 - 120	<0.10	ug/g	16	30		
7933657	Acid Extractable Copper (Cu)	2022/04/12	97	75 - 125	99	80 - 120	<0.50	ug/g	3.2	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7933657	Acid Extractable Lead (Pb)	2022/04/12	95	75 - 125	99	80 - 120	<1.0	ug/g	6.8	30		
7933657	Acid Extractable Mercury (Hg)	2022/04/12	83	75 - 125	88	80 - 120	<0.050	ug/g				
7933657	Acid Extractable Molybdenum (Mo)	2022/04/12	96	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7933657	Acid Extractable Nickel (Ni)	2022/04/12	101	75 - 125	101	80 - 120	<0.50	ug/g	6.3	30		
7933657	Acid Extractable Selenium (Se)	2022/04/12	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7933657	Acid Extractable Silver (Ag)	2022/04/12	97	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Thallium (Tl)	2022/04/12	97	75 - 125	101	80 - 120	<0.050	ug/g	NC	30		
7933657	Acid Extractable Uranium (U)	2022/04/12	95	75 - 125	99	80 - 120	<0.050	ug/g	15	30		
7933657	Acid Extractable Vanadium (V)	2022/04/12	94	75 - 125	99	80 - 120	<5.0	ug/g	11	30		
7933657	Acid Extractable Zinc (Zn)	2022/04/12	95	75 - 125	101	80 - 120	<5.0	ug/g	7.1	30		
7933708	Available (CaCl2) pH	2022/04/11			101	97 - 103			0.50	N/A		
7933957	Conductivity	2022/04/12			101	90 - 110	<0.002	mS/cm	3.8	10		
7934381	1-Methylnaphthalene	2022/04/12	120	50 - 130	120	50 - 130	<0.0050	ug/g	NC	40		
7934381	2-Methylnaphthalene	2022/04/12	112	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Acenaphthene	2022/04/12	109	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40		
7934381	Acenaphthylene	2022/04/12	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7934381	Anthracene	2022/04/12	106	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(a)anthracene	2022/04/12	122	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(a)pyrene	2022/04/12	111	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(b/j)fluoranthene	2022/04/12	108	50 - 130	113	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(g,h,i)perylene	2022/04/12	114	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(k)fluoranthene	2022/04/12	110	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7934381	Chrysene	2022/04/12	113	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40		
7934381	Dibenzo(a,h)anthracene	2022/04/12	111	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7934381	Fluoranthene	2022/04/12	112	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Fluorene	2022/04/12	108	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7934381	Indeno(1,2,3-cd)pyrene	2022/04/12	114	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7934381	Naphthalene	2022/04/12	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40		
7934381	Phenanthrene	2022/04/12	110	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Pyrene	2022/04/12	112	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7934970	F2 (C10-C16 Hydrocarbons)	2022/04/12	109	60 - 130	109	80 - 120	<10	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7934970	F3 (C16-C34 Hydrocarbons)	2022/04/12	113	60 - 130	112	80 - 120	<50	ug/g	20	30		
7934970	F4 (C34-C50 Hydrocarbons)	2022/04/12	NC	60 - 130	115	80 - 120	<50	ug/g	58 (1)	30		
7935088	F2 (C10-C16 Hydrocarbons)	2022/04/12	95	60 - 130	93	80 - 120	<10	ug/g	NC	30		
7935088	F3 (C16-C34 Hydrocarbons)	2022/04/12	96	60 - 130	93	80 - 120	<50	ug/g	NC	30		
7935088	F4 (C34-C50 Hydrocarbons)	2022/04/12	94	60 - 130	91	80 - 120	<50	ug/g	NC	30		
7935115	Conductivity	2022/04/12			98	90 - 110	<0.002	mS/cm	0.34	10		
7935118	F2 (C10-C16 Hydrocarbons)	2022/04/12	105	60 - 130	108	80 - 120	<10	ug/g	NC	30		
7935118	F3 (C16-C34 Hydrocarbons)	2022/04/12	105	60 - 130	108	80 - 120	<50	ug/g	NC	30		
7935118	F4 (C34-C50 Hydrocarbons)	2022/04/12	104	60 - 130	107	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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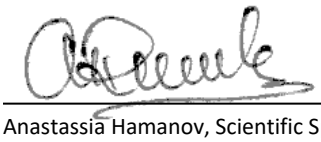
VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, 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 Signature Page.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	~~#30085 Parkland Fuel Corporation~~ Terrapex Environmental Ltd	Company Name:	#27399 Terrapex Environmental Ltd	Quotation #:	~~B93691~~ C21481	BV Labs Job #:	Bottle Order #: 849280
Attention:	~~Sadiq Mohammed~~ ACCOUNTS PAYABLE	Attention:	~~Geoff Lussier~~ ROY YU	P.O. #:	-		
Address:	~~1800, 240-4th Ave SW~~ 90 SCARSDALE ROAD	Address:	920 Brant St Unit 16	Project:	~~CB876.02~~ CT3243.01	COC #:	Project Manager:
	~~Calgary AB T2P 4H4~~ TOR ON M3B 2R7		Burlington ON M3B 2R7	Project Name:	GRAND NIAGARA GOLF	C#849280-01-01	Kudrat Bajwa
Tel:	~~(403) 567-2600~~ (416) 245-0011 Fax: (587) 230-3949	Tel:	~~(906) 632-5939~~ Fax:	Site #:	RSC 4		
Email:	~~kristen.burmeister@bvlabs.com~~ accounts.payable@terrapex.com	Email:	~~g.lussier@terrapex.com~~ r.yu@terrapex.com	Sampled By:	R.A.P.		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: (call lab for #)

	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	METALS AND INORGANICS	EC/SAR	PAHs	# of Bottles	Comments
1	✓	4-MW218-1	MAR 3/22	9 AM	SOIL	N	X	X		X	4	
2	✓	4-MW218-91		9 AM			X	X		X	4	
3	✓	4-MW218-3		10 AM					X		2	06-Apr-22 16:10
4	✓	4-MW218-93		10 AM					X		2	Kudrat Bajwa
5	✓	4-MW218-4		11 AM			X				3	C291245
6	✓	~~4-MW~~ 4-BH219-1		1 PM			X	X			4	NP4 ENV-1452
7	✓	4-BH219-2	↓	1:30 PM		↓			X		2	
8		~~4-MW220-1~~		~~3 PM~~			~~X~~					
9		~~4-MW220-3~~		~~3:30~~					~~X~~			
10		~~4-MW220-5~~		~~4 PM~~								~~ON HOLD~~

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only		
Raymond Agnew	22/04/05	8 PM	Abdulsat	22/04/06	16:10	6		Temperature (°C) on Recei 4/3/4	Custody Seal Present / Intact	Yes ✓ ✓ / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30085 Parkland Fuel Corporation~~ TERRAPEX ENVIRONMENTAL	Company Name: ~~#27399~~ Terrapex Environmental Ltd	Quotation #: ~~B93691~~ C214B1	BV Labs Job #:
Attention: ~~Sadiq Mohammed~~ ROY YU	Attention: ~~Geoff Lussier~~ ROY YU	P.O. #:	Bottle Order #: 827276
Address: ~~1800, 240-4th Ave SW~~ 90 SCARSDALE ROAD ~~Calgary AB T2P 4H4~~	Address: ~~65 Nebo Road~~ ~~Hamilton ON L8W 2C9~~	Project: ~~CB1130.01~~ CT3243.01	COC #: C#827276-01-01
Tel: ~~(403) 567-2500~~ Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ Fax:	Project Name: GRAND NIAGARA GOLF	Project Manager: Kudrat Bajwa
Email: ~~kristen.burmeister@bvlabs.com~~	Email: g.lussier@terrapex.com r.yu@terrapex.com	Site #: RSC4	
		Sampled By: RP	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX/PHCs (F1-F4)	METALS AND INORGANICS (EC/SAR)	PAHs	# of Bottles	Comments
1	✓	4-MW224-1	APRIL 1/22	4 PM	SOIL	N	X	X	X	4	
2	✓	4-MW224-3	↓	4:30PM	↓	↓		X		2	
3	✓	4-MW224-4	↓	5PM	↓	↓				4	ON HOLD.
4	✓	4-MW225-1	APRIL 4/22	9 AM	↓	↓	X	X	X	4	
5	✓	4-MW225-91	↓	9 AM	↓	↓	X	X	X	4	
6	✓	4-MW225-3A	↓	10 AM	↓	↓		X		2	
7	✓	4-MW225-5B	↓	10:30AM	↓	↓	X			3	
8	✓	4-MW226-1	APRIL 4/22	3PM	↓	↓	X	X	X	4	
9	✓	4-MW226-3	↓	3:30PM	↓	↓		X		2	
10	✓	4-MW226-5	↓	4PM	↓	↓				4	ON hold

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
RAYMOND AMAN	22/04/05	8PM				0

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

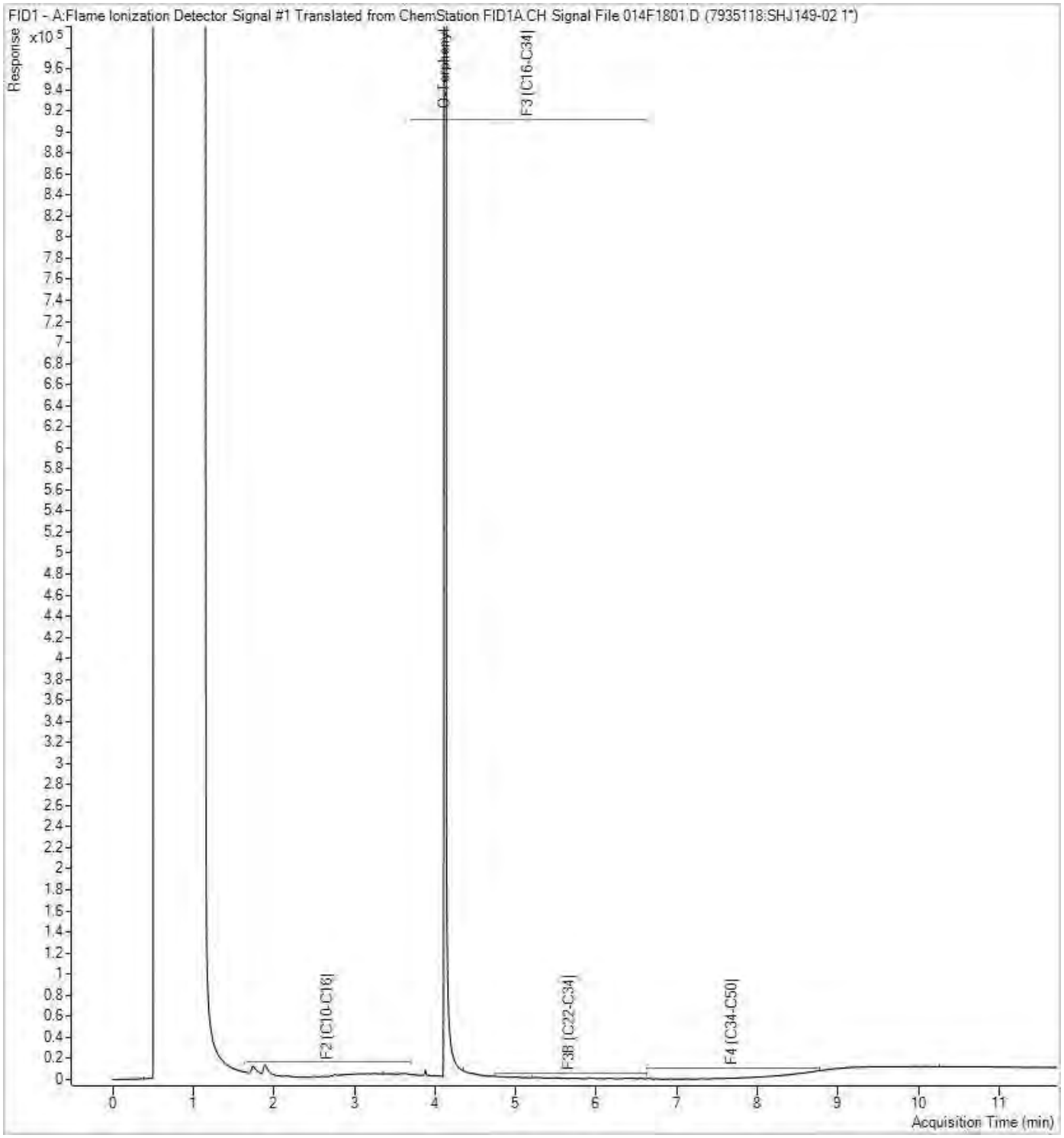
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C291245
Report Date: 2022/04/27
Bureau Veritas Sample: SHJ149

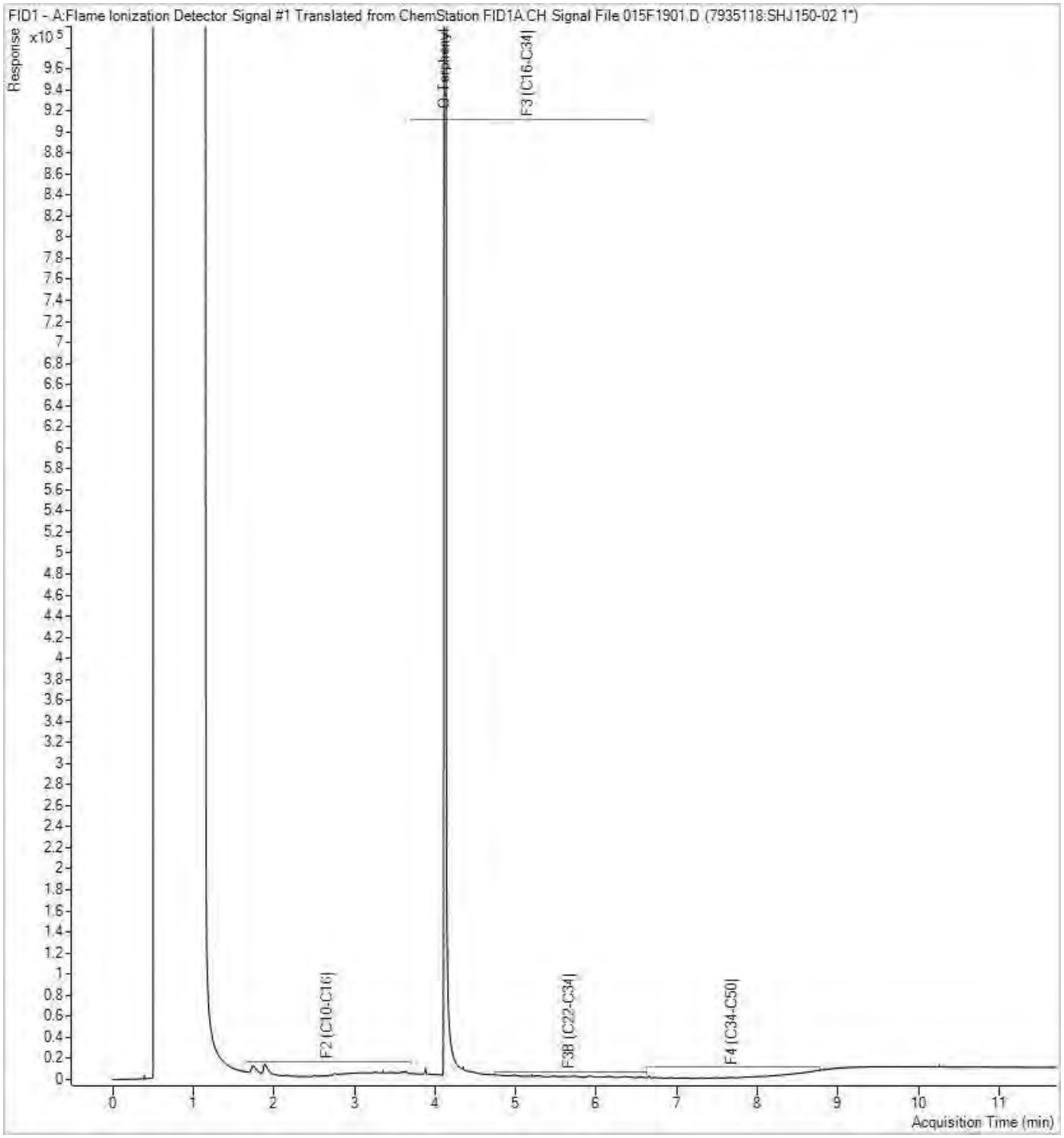
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC4
Client ID: 4-MW218-1

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

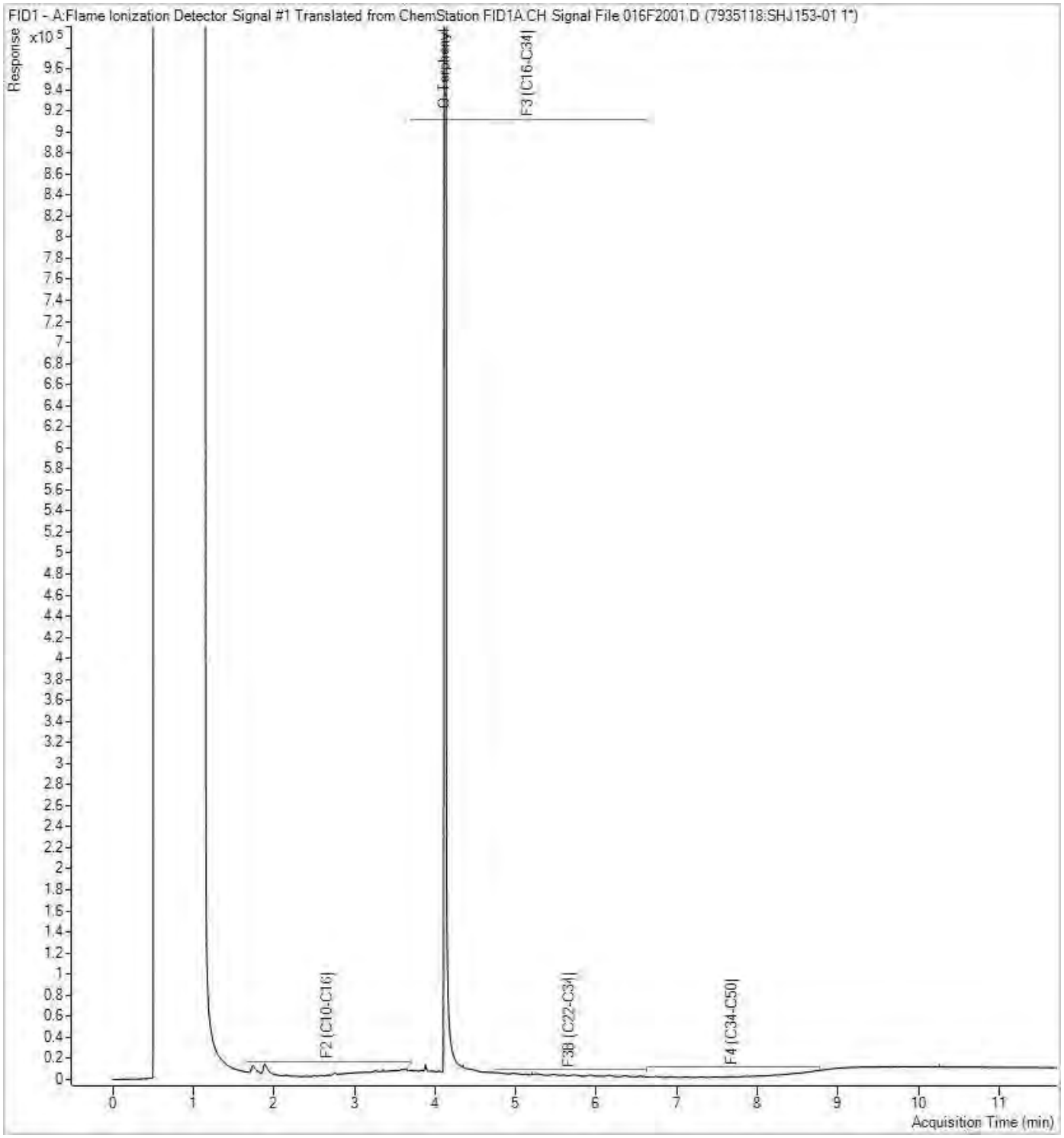


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C291245
Report Date: 2022/04/27
Bureau Veritas Sample: SHJ153

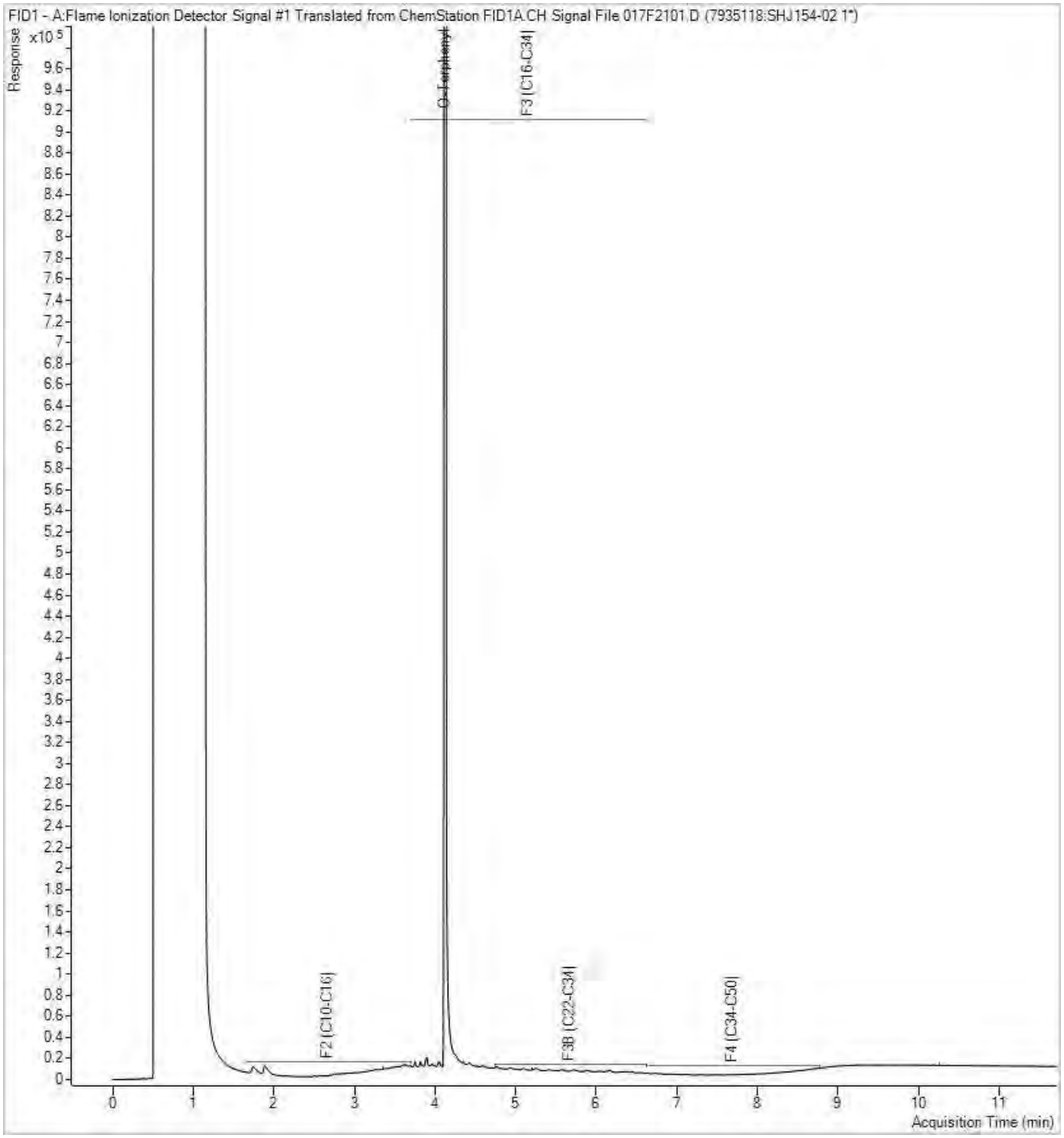
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC4
Client ID: 4-MW218-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



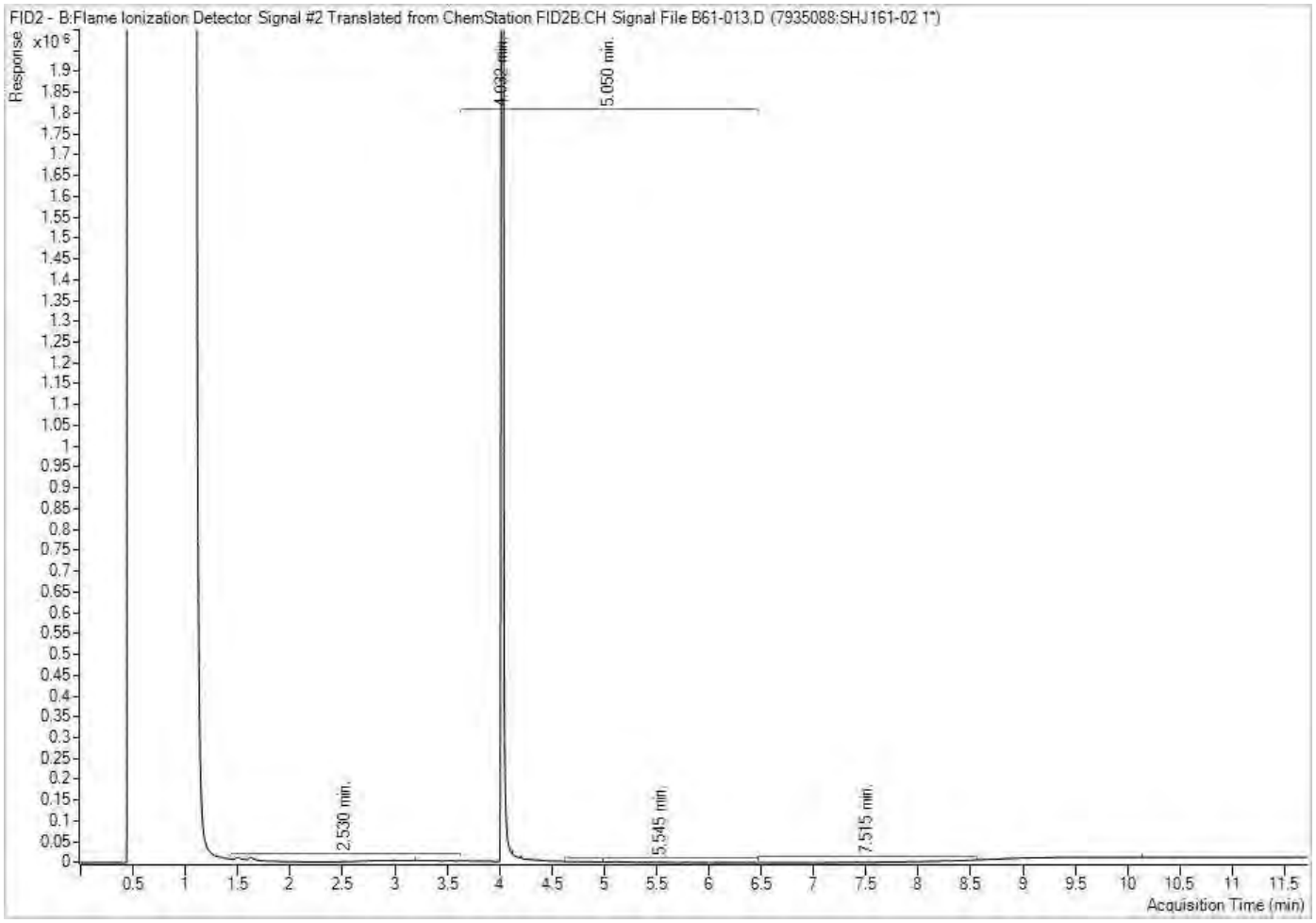
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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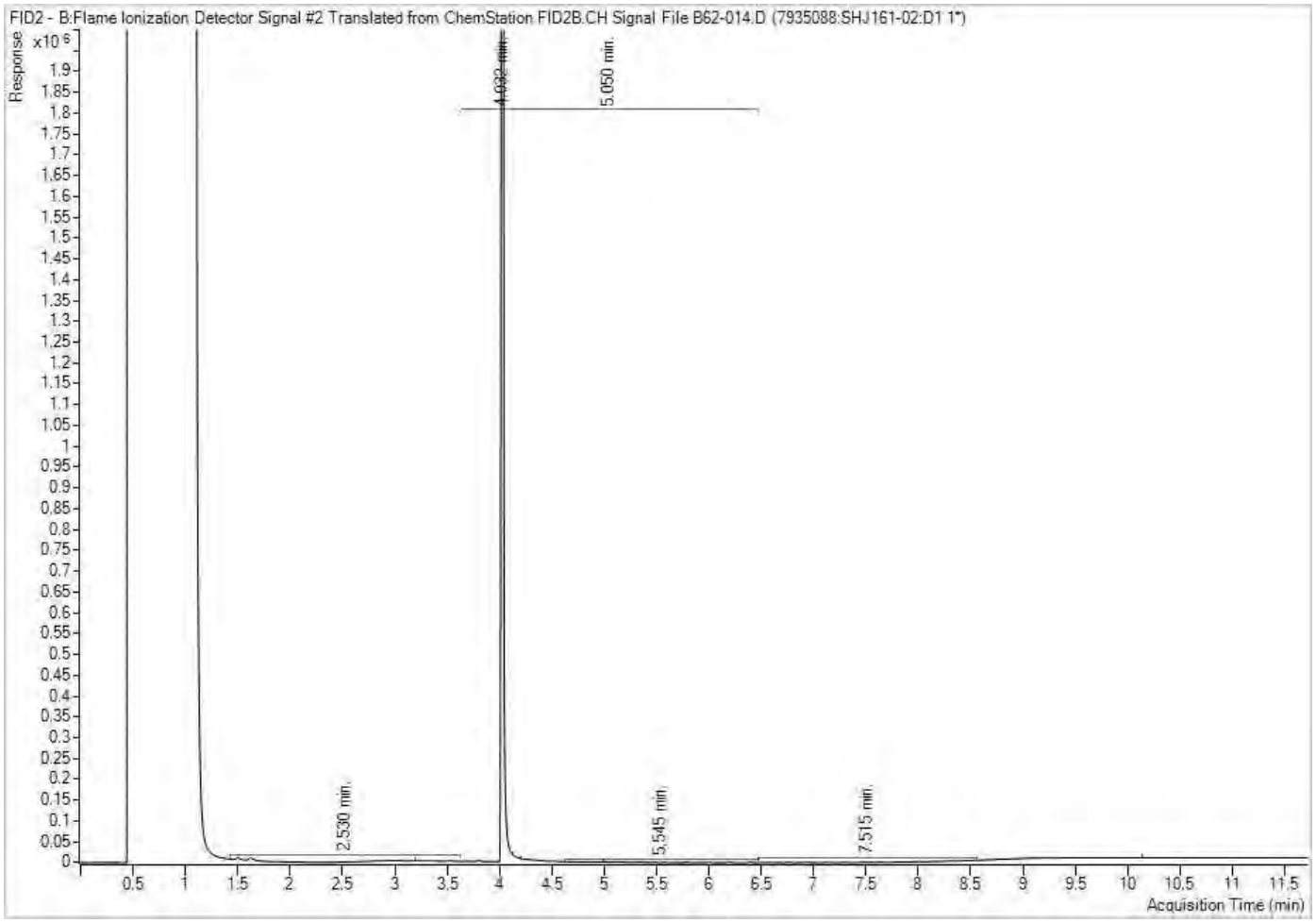
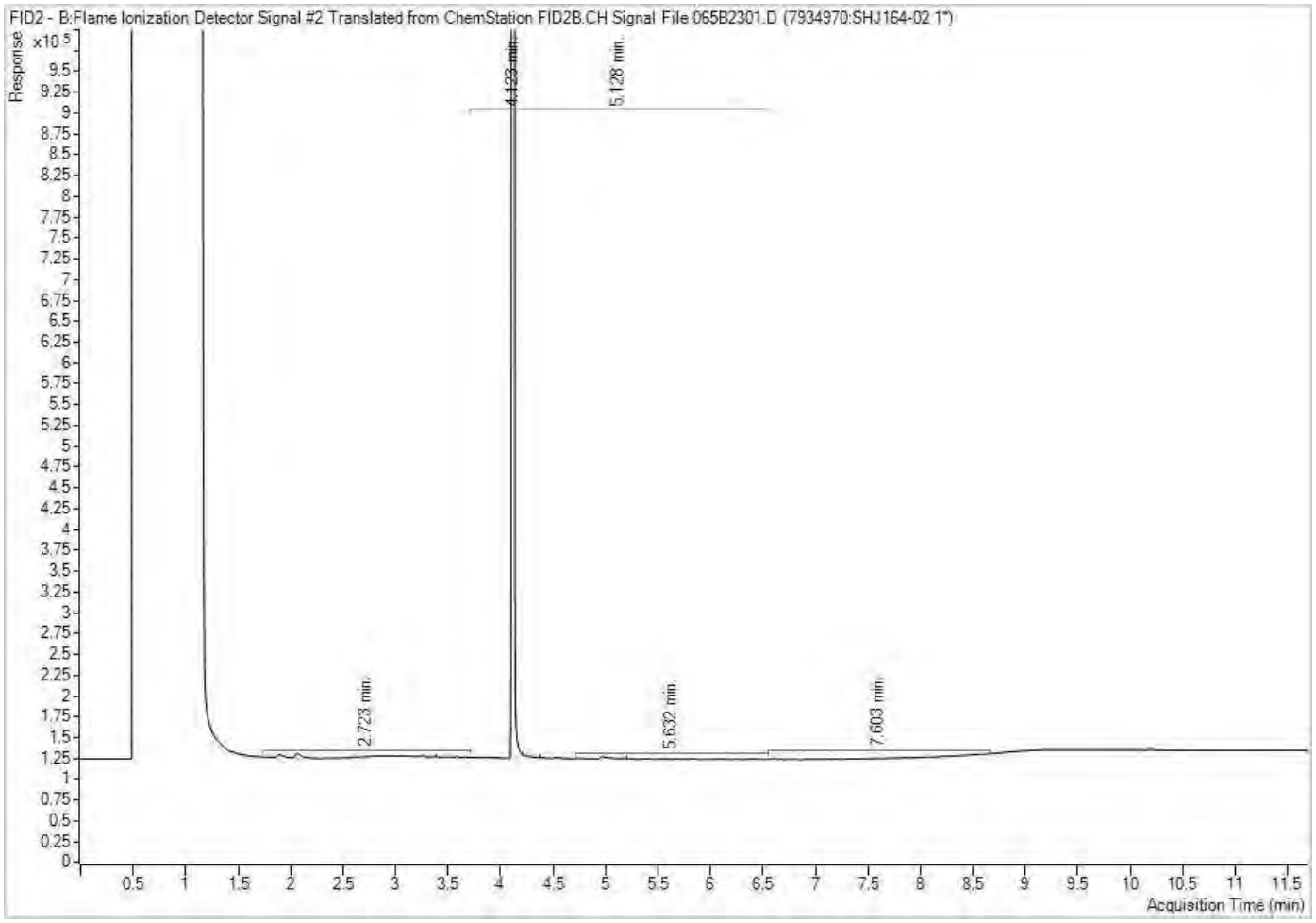
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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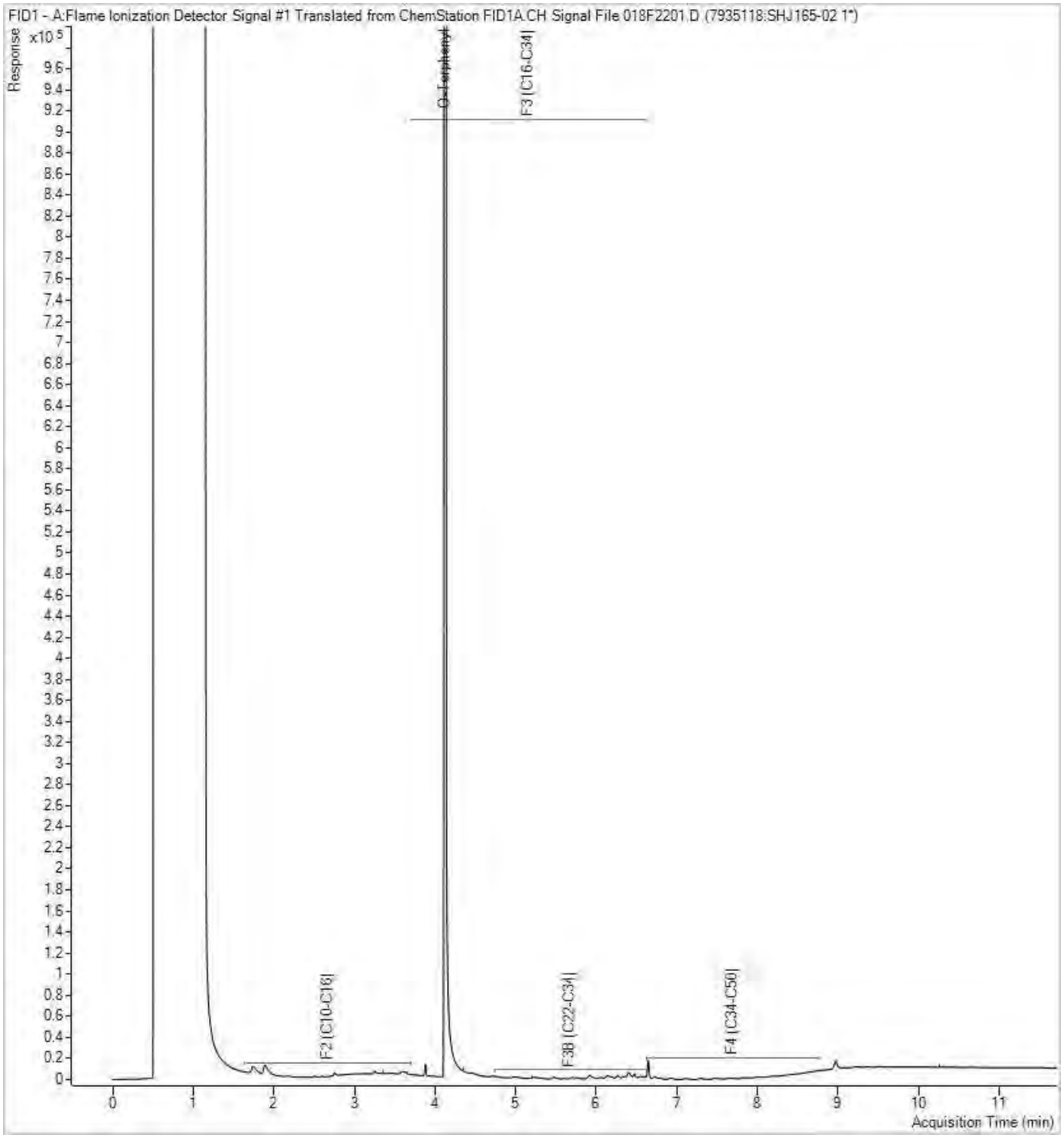
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

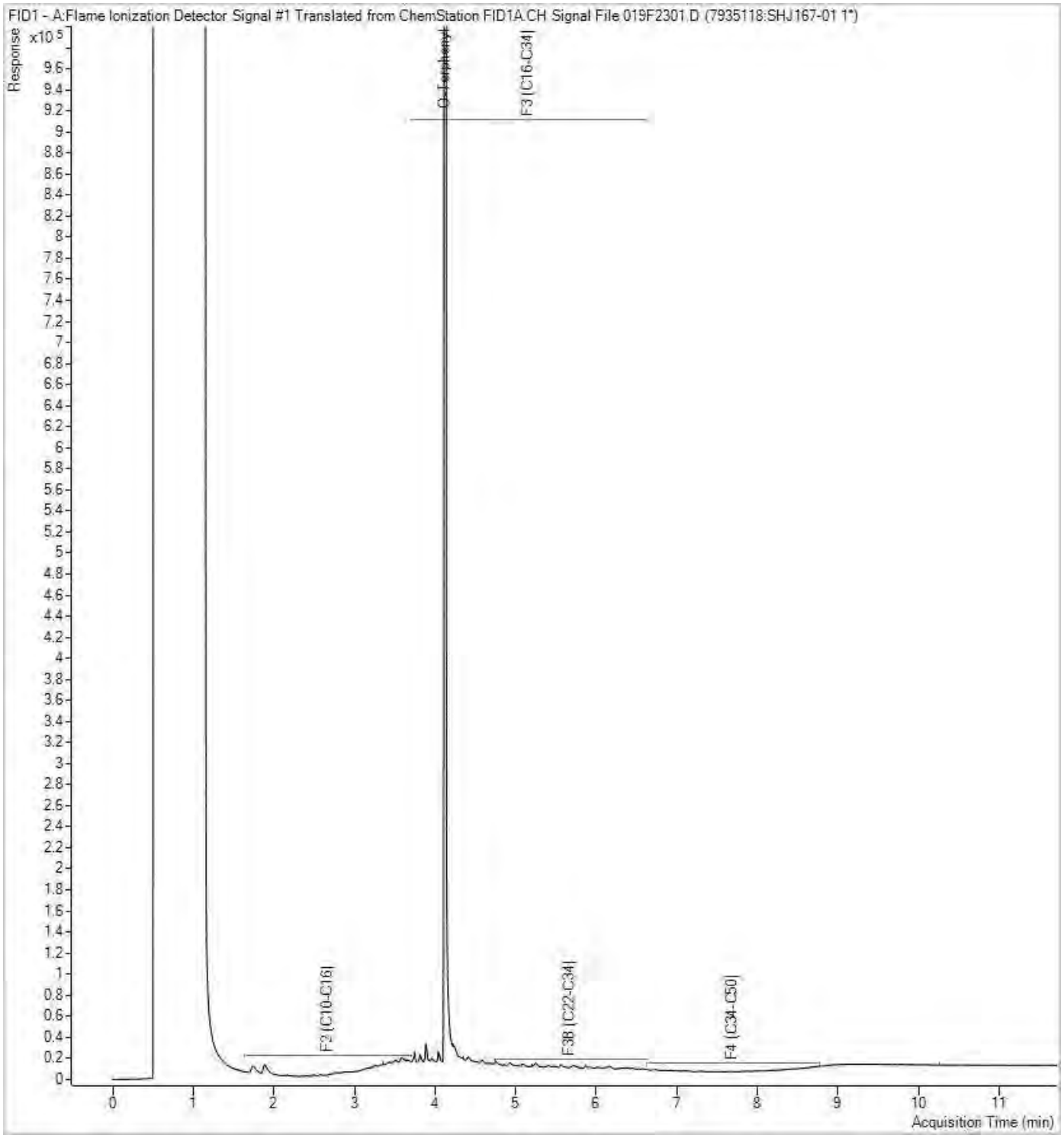


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C291245
Report Date: 2022/04/27
Bureau Veritas Sample: SHJ167

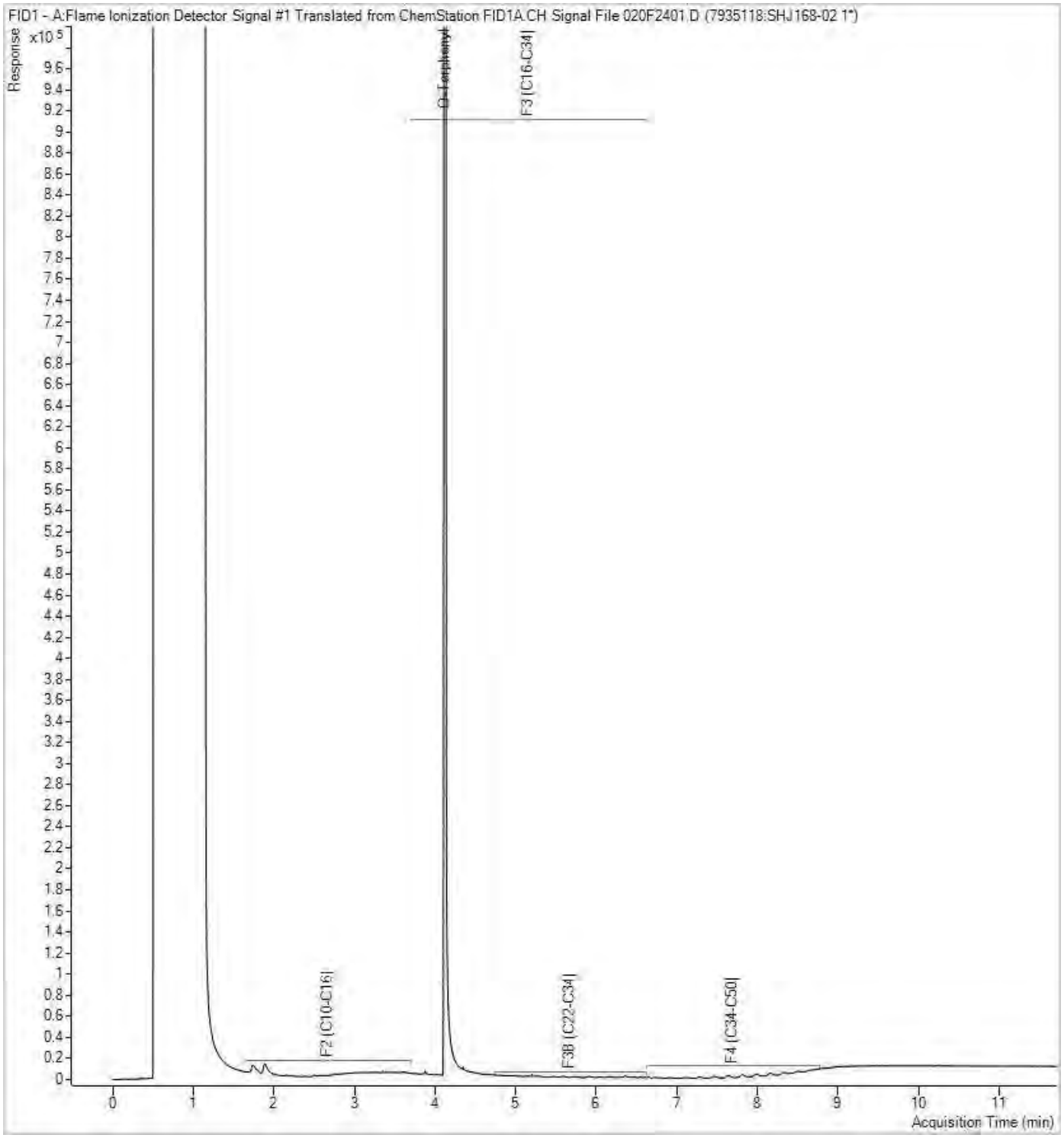
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC4
Client ID: 4-MW225-5B

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF RSC4
Your C.O.C. #: 849280-01-01, 827286-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128242
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291245
Received: 2022/04/06, 16:10

Sample Matrix: Soil
Samples Received: 16

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/04/12	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	7	2022/04/11	2022/04/11	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	3	2022/05/13	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	7	2022/04/11	2022/04/12	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	3	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	4	2022/04/11	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	2	2022/04/12	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	7	2022/04/08	2022/04/12	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/05/13	2022/05/13	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	7	2022/04/08	2022/04/12	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	3	2022/05/13	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	9	N/A	2022/04/11	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	9	2022/04/11	2022/04/12	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	7	2022/04/11	2022/04/12	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/05/13	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	9	N/A	2022/04/07	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	3	N/A	2022/05/11	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	6	2022/04/11	2022/04/12	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	7	2022/04/11	2022/04/11	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	3	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	13	N/A	2022/04/13	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.

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF RSC4
Your C.O.C. #: 849280-01-01, 827286-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128242
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291245
Received: 2022/04/06, 16:10

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ149	SHJ150			SHJ150		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00			2022/03/31 09:00		
COC Number		849280-01-01	849280-01-01			849280-01-01		
	UNITS	4-MW218-1	4-MW218-91	RDL	QC Batch	4-MW218-91 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.64	0.58		7926285			
Inorganics								
Conductivity	mS/cm	3.5	3.3	0.002	7935115			
Available (CaCl2) pH	pH	7.82	7.76		7933708	7.80		7933708
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7933314			
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7929716	<0.18	0.18	7929716
Metals								
Hot Water Ext. Boron (B)	ug/g	0.085	0.14	0.050	7932848			
Acid Extractable Antimony (Sb)	ug/g	0.23	<0.20	0.20	7933657			
Acid Extractable Arsenic (As)	ug/g	5.2	4.6	1.0	7933657			
Acid Extractable Barium (Ba)	ug/g	140	66	0.50	7933657			
Acid Extractable Beryllium (Be)	ug/g	1.1	0.67	0.20	7933657			
Acid Extractable Boron (B)	ug/g	11	7.3	5.0	7933657			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7933657			
Acid Extractable Chromium (Cr)	ug/g	30	22	1.0	7933657			
Acid Extractable Cobalt (Co)	ug/g	16	11	0.10	7933657			
Acid Extractable Copper (Cu)	ug/g	24	20	0.50	7933657			
Acid Extractable Lead (Pb)	ug/g	11	7.1	1.0	7933657			
Acid Extractable Molybdenum (Mo)	ug/g	0.67	0.54	0.50	7933657			
Acid Extractable Nickel (Ni)	ug/g	35	26	0.50	7933657			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7933657			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7933657			
Acid Extractable Thallium (Tl)	ug/g	0.16	0.14	0.050	7933657			
Acid Extractable Uranium (U)	ug/g	1.0	0.86	0.050	7933657			
Acid Extractable Vanadium (V)	ug/g	40	29	5.0	7933657			
Acid Extractable Zinc (Zn)	ug/g	69	55	5.0	7933657			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7933657			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ151	SHJ152			SHJ154	SHJ161		
Sampling Date		2022/03/31 10:00	2022/03/31 10:00			2022/03/31 13:00	2022/04/01 16:00		
COC Number		849280-01-01	849280-01-01			849280-01-01	827286-01-01		
	UNITS	4-MW218-3	4-MW218-93	RDL	QC Batch	4-MW219-1	4-MW224-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A					0.71	0.41		7926285
Inorganics									
Conductivity	mS/cm					1.2	0.27	0.002	7935115
Moisture	%	19	21	1.0	7988653				
Available (CaCl2) pH	pH	7.96	7.97		7994222	7.85	7.80		7933708
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	7993299	<0.01	<0.01	0.01	7933314
Chromium (VI)	ug/g	<0.18	<0.18	0.18	7993725	<0.18	0.24	0.18	7929716
Metals									
Hot Water Ext. Boron (B)	ug/g	0.44	0.47	0.050	7993668	0.33	0.071	0.050	7932848
Acid Extractable Antimony (Sb)	ug/g	0.24	0.24	0.20	7993373	0.23	<0.20	0.20	7933657
Acid Extractable Arsenic (As)	ug/g	4.7	4.8	1.0	7993373	5.3	4.6	1.0	7933657
Acid Extractable Barium (Ba)	ug/g	130	120	0.50	7993373	150	130	0.50	7933657
Acid Extractable Beryllium (Be)	ug/g	0.82	0.89	0.20	7993373	1.1	0.80	0.20	7933657
Acid Extractable Boron (B)	ug/g	16	19	5.0	7993373	12	8.8	5.0	7933657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.10	7993373	0.11	<0.10	0.10	7933657
Acid Extractable Chromium (Cr)	ug/g	26	27	1.0	7993373	31	24	1.0	7933657
Acid Extractable Cobalt (Co)	ug/g	15	16	0.10	7993373	17	13	0.10	7933657
Acid Extractable Copper (Cu)	ug/g	26	24	0.50	7993373	26	23	0.50	7933657
Acid Extractable Lead (Pb)	ug/g	8.7	9.6	1.0	7993373	11	8.7	1.0	7933657
Acid Extractable Molybdenum (Mo)	ug/g	0.83	0.93	0.50	7993373	0.73	0.50	0.50	7933657
Acid Extractable Nickel (Ni)	ug/g	31	34	0.50	7993373	37	30	0.50	7933657
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7993373	<0.50	<0.50	0.50	7933657
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7993373	<0.20	<0.20	0.20	7933657
Acid Extractable Thallium (Tl)	ug/g	0.13	0.18	0.050	7993373	0.19	0.16	0.050	7933657
Acid Extractable Uranium (U)	ug/g	0.78	0.87	0.050	7993373	1.1	0.78	0.050	7933657
Acid Extractable Vanadium (V)	ug/g	34	36	5.0	7993373	41	34	5.0	7933657
Acid Extractable Zinc (Zn)	ug/g	65	71	5.0	7993373	77	59	5.0	7933657
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7993373	<0.050	<0.050	0.050	7933657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ161			SHJ164			SHJ164		
Sampling Date		2022/04/01 16:00			2022/04/04 09:00			2022/04/04 09:00		
COC Number		827286-01-01			827286-01-01			827286-01-01		
	UNITS	4-MW224-1 Lab-Dup	RDL	QC Batch	4-MW225-1	RDL	QC Batch	4-MW225-1 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A				1.4		7926285			
Inorganics										
Conductivity	mS/cm				0.85	0.002	7935115			
Available (CaCl2) pH	pH				7.94		7933708			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7933314	<0.01	0.01	7933314			
Chromium (VI)	ug/g				<0.18	0.18	7929716			
Metals										
Hot Water Ext. Boron (B)	ug/g				0.094	0.050	7932848	0.085	0.050	7932848
Acid Extractable Antimony (Sb)	ug/g				<0.20	0.20	7933657			
Acid Extractable Arsenic (As)	ug/g				4.4	1.0	7933657			
Acid Extractable Barium (Ba)	ug/g				150	0.50	7933657			
Acid Extractable Beryllium (Be)	ug/g				0.96	0.20	7933657			
Acid Extractable Boron (B)	ug/g				11	5.0	7933657			
Acid Extractable Cadmium (Cd)	ug/g				<0.10	0.10	7933657			
Acid Extractable Chromium (Cr)	ug/g				28	1.0	7933657			
Acid Extractable Cobalt (Co)	ug/g				15	0.10	7933657			
Acid Extractable Copper (Cu)	ug/g				24	0.50	7933657			
Acid Extractable Lead (Pb)	ug/g				10	1.0	7933657			
Acid Extractable Molybdenum (Mo)	ug/g				<0.50	0.50	7933657			
Acid Extractable Nickel (Ni)	ug/g				34	0.50	7933657			
Acid Extractable Selenium (Se)	ug/g				<0.50	0.50	7933657			
Acid Extractable Silver (Ag)	ug/g				<0.20	0.20	7933657			
Acid Extractable Thallium (Tl)	ug/g				0.16	0.050	7933657			
Acid Extractable Uranium (U)	ug/g				0.95	0.050	7933657			
Acid Extractable Vanadium (V)	ug/g				37	5.0	7933657			
Acid Extractable Zinc (Zn)	ug/g				64	5.0	7933657			
Acid Extractable Mercury (Hg)	ug/g				<0.050	0.050	7933657			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHJ165			SHJ166			SHJ168		
Sampling Date		2022/04/04 09:00			2022/04/04 10:00			2022/04/04 15:00		
COC Number		827286-01-01			827286-01-01			827286-01-01		
	UNITS	4-MW225-91	RDL	QC Batch	4-MW225-3A	RDL	QC Batch	4-MW226-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	1.3		7926285				0.68		7926285
Inorganics										
Conductivity	mS/cm	0.79	0.002	7935115				0.93	0.002	7935115
Moisture	%				18	1.0	7988653			
Available (CaCl2) pH	pH	7.82		7933708	7.91		7994222	6.77		7933708
WAD Cyanide (Free)	ug/g	<0.01	0.01	7933314	<0.01	0.01	7993299	<0.01	0.01	7933314
Chromium (VI)	ug/g	0.30	0.18	7929716	<0.18	0.18	7993725	0.24	0.18	7929716
Metals										
Hot Water Ext. Boron (B)	ug/g	0.054	0.050	7932848	0.33	0.050	7993668	0.073	0.050	7932848
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7933657	<0.20	0.20	7993373	<0.20	0.20	7933657
Acid Extractable Arsenic (As)	ug/g	4.8	1.0	7933657	4.6	1.0	7993373	4.7	1.0	7933657
Acid Extractable Barium (Ba)	ug/g	200	0.50	7933657	120	0.50	7993373	180	0.50	7933657
Acid Extractable Beryllium (Be)	ug/g	1.2	0.20	7933657	0.72	0.20	7993373	1.3	0.20	7933657
Acid Extractable Boron (B)	ug/g	12	5.0	7933657	14	5.0	7993373	9.1	5.0	7933657
Acid Extractable Cadmium (Cd)	ug/g	0.14	0.10	7933657	<0.10	0.10	7993373	0.13	0.10	7933657
Acid Extractable Chromium (Cr)	ug/g	34	1.0	7933657	24	1.0	7993373	32	1.0	7933657
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7933657	14	0.10	7993373	22	0.10	7933657
Acid Extractable Copper (Cu)	ug/g	27	0.50	7933657	25	0.50	7993373	23	0.50	7933657
Acid Extractable Lead (Pb)	ug/g	12	1.0	7933657	9.0	1.0	7993373	14	1.0	7933657
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7933657	0.77	0.50	7993373	0.55	0.50	7933657
Acid Extractable Nickel (Ni)	ug/g	40	0.50	7933657	30	0.50	7993373	35	0.50	7933657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7933657	<0.50	0.50	7993373	<0.50	0.50	7933657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7933657	<0.20	0.20	7993373	<0.20	0.20	7933657
Acid Extractable Thallium (Tl)	ug/g	0.19	0.050	7933657	0.13	0.050	7993373	0.19	0.050	7933657
Acid Extractable Uranium (U)	ug/g	1.0	0.050	7933657	0.83	0.050	7993373	0.80	0.050	7933657
Acid Extractable Vanadium (V)	ug/g	45	5.0	7933657	32	5.0	7993373	46	5.0	7933657
Acid Extractable Zinc (Zn)	ug/g	74	5.0	7933657	58	5.0	7993373	71	5.0	7933657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7933657	<0.050	0.050	7993373	<0.050	0.050	7933657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SHJ149	SHJ150	SHJ161	SHJ164	SHJ165	SHJ168		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00	2022/04/01 16:00	2022/04/04 09:00	2022/04/04 09:00	2022/04/04 15:00		
COC Number		849280-01-01	849280-01-01	827286-01-01	827286-01-01	827286-01-01	827286-01-01		
	UNITS	4-MW218-1	4-MW218-91	4-MW224-1	4-MW225-1	4-MW225-91	4-MW226-1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	7926278
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7934381
Surrogate Recovery (%)									
D10-Anthracene	%	99	102	99	102	94	99		7934381
D14-Terphenyl (FS)	%	89	91	88	91	84	88		7934381
D8-Acenaphthylene	%	90	92	89	90	85	88		7934381

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SHJ149	SHJ150	SHJ153	SHJ154		SHJ161		
Sampling Date		2022/03/31 09:00	2022/03/31 09:00	2022/03/31 11:00	2022/03/31 13:00		2022/04/01 16:00		
COC Number		849280-01-01	849280-01-01	849280-01-01	849280-01-01		827286-01-01		
	UNITS	4-MW218-1	4-MW218-91	4-MW218-4	4-MW219-1	QC Batch	4-MW224-1	RDL	QC Batch
Inorganics									
Moisture	%	21	21	22	19	7926858	18	1.0	7926858
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	7932038	<0.020	0.020	7932038
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	7932038	<0.040	0.040	7932038
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	7932038	<0.040	0.040	7932038
F1 (C6-C10)	ug/g	<10	<10	<10	<10	7932038	<10	10	7932038
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	7932038	<10	10	7932038
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	7935118	<10	10	7935088
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	7935118	<50	50	7935088
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	7935118	<50	50	7935088
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	7935118	Yes		7935088
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	103	104	103	104	7932038	104		7932038
4-Bromofluorobenzene	%	96	96	97	96	7932038	88		7932038
D10-o-Xylene	%	114	128	103	114	7932038	121		7932038
D4-1,2-Dichloroethane	%	104	105	108	106	7932038	105		7932038
o-Terphenyl	%	97	97	96	98	7935118	90		7935088

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SHJ161			SHJ164		SHJ165	SHJ167		
Sampling Date		2022/04/01 16:00			2022/04/04 09:00		2022/04/04 09:00	2022/04/04 10:30		
COC Number		827286-01-01			827286-01-01		827286-01-01	827286-01-01		
	UNITS	4-MW224-1 Lab-Dup	RDL	QC Batch	4-MW225-1	QC Batch	4-MW225-91	4-MW225-5B	RDL	QC Batch
Inorganics										
Moisture	%				21	7926858	25	27	1.0	7926858
BTEX & F1 Hydrocarbons										
Benzene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
Toluene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
Ethylbenzene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
o-Xylene	ug/g				<0.020	7932038	<0.020	<0.020	0.020	7932038
p+m-Xylene	ug/g				<0.040	7932038	<0.040	<0.040	0.040	7932038
Total Xylenes	ug/g				<0.040	7932038	<0.040	<0.040	0.040	7932038
F1 (C6-C10)	ug/g				<10	7932038	<10	<10	10	7932038
F1 (C6-C10) - BTEX	ug/g				<10	7932038	<10	<10	10	7932038
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7935088	<10	7934970	<10	11	10	7935118
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7935088	<50	7934970	<50	60	50	7935118
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7935088	<50	7934970	<50	<50	50	7935118
Reached Baseline at C50	ug/g	Yes		7935088	Yes	7934970	Yes	Yes		7935118
Surrogate Recovery (%)										
1,4-Difluorobenzene	%				104	7932038	103	105		7932038
4-Bromofluorobenzene	%				93	7932038	94	99		7932038
D10-o-Xylene	%				124	7932038	120	111		7932038
D4-1,2-Dichloroethane	%				106	7932038	107	101		7932038
o-Terphenyl	%	88		7935088	94	7934970	98	103		7935118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SHJ167			SHJ168		
Sampling Date		2022/04/04 10:30			2022/04/04 15:00		
COC Number		827286-01-01			827286-01-01		
	UNITS	4-MW225-5B Lab-Dup	RDL	QC Batch	4-MW226-1	RDL	QC Batch
Inorganics							
Moisture	%	26	1.0	7926858	19	1.0	7926858
BTEX & F1 Hydrocarbons							
Benzene	ug/g				<0.020	0.020	7932038
Toluene	ug/g				<0.020	0.020	7932038
Ethylbenzene	ug/g				<0.020	0.020	7932038
o-Xylene	ug/g				<0.020	0.020	7932038
p+m-Xylene	ug/g				<0.040	0.040	7932038
Total Xylenes	ug/g				<0.040	0.040	7932038
F1 (C6-C10)	ug/g				<10	10	7932038
F1 (C6-C10) - BTEX	ug/g				<10	10	7932038
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g				<10	10	7935118
F3 (C16-C34 Hydrocarbons)	ug/g				<50	50	7935118
F4 (C34-C50 Hydrocarbons)	ug/g				<50	50	7935118
Reached Baseline at C50	ug/g				Yes		7935118
Surrogate Recovery (%)							
1,4-Difluorobenzene	%				103		7932038
4-Bromofluorobenzene	%				96		7932038
D10-o-Xylene	%				112		7932038
D4-1,2-Dichloroethane	%				107		7932038
o-Terphenyl	%				102		7935118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Job #: C291245
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHJ151	SHJ152			SHJ153	SHJ153		
Sampling Date		2022/03/31 10:00	2022/03/31 10:00			2022/03/31 11:00	2022/03/31 11:00		
COC Number		849280-01-01	849280-01-01			849280-01-01	849280-01-01		
	UNITS	4-MW218-3	4-MW218-93	RDL	QC Batch	4-MW218-4	4-MW218-4 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	1.3	0.87		7926285				
Inorganics									
Conductivity	mS/cm	2.4	3.7	0.002	7935115				
Miscellaneous Parameters									
Grain Size	%					FINE	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%					99	99	1	7952276
Sieve - #200 (>0.075mm)	%					1	1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		SHJ155	SHJ162		SHJ162			SHJ163		
Sampling Date		2022/03/31 13:30	2022/04/01 16:30		2022/04/01 16:30			2022/04/01 17:00		
COC Number		849280-01-01	827286-01-01		827286-01-01			827286-01-01		
	UNITS	4-MW219-2	4-MW224-3	QC Batch	4-MW224-3 Lab-Dup	RDL	QC Batch	4-MW224-4	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.70	0.32	7926285						
Inorganics										
Conductivity	mS/cm	0.40	0.20	7933957	0.19	0.002	7933957			
Miscellaneous Parameters										
Grain Size	%							FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%							100	1	7952276
Sieve - #200 (>0.075mm)	%							<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHJ166		SHJ167		SHJ169		
Sampling Date		2022/04/04 10:00		2022/04/04 10:30		2022/04/04 15:30		
COC Number		827286-01-01		827286-01-01		827286-01-01		
	UNITS	**4-MW225-3A**	**QC Batch**	**4-MW225-5B**	**QC Batch**	**4-MW226-3**	**RDL**	**QC Batch**
Calculated Parameters								
Sodium Adsorption Ratio	N/A	1.4	7926285			0.99		7926285
Inorganics								
Conductivity	mS/cm	1.7	7933957	2.0	7993800	1.1	0.002	7933957

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C291245
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHJ149
Sample ID: 4-MW218-1
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ150
Sample ID: 4-MW218-91
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ150 Dup
Sample ID: 4-MW218-91
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake

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TEST SUMMARY

Bureau Veritas ID: SHJ151 **Collected:** 2022/03/31
Sample ID: 4-MW218-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993668	2022/05/13	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7935115	2022/04/12	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993373	2022/05/13	2022/05/13	Daniel Teclu
Moisture	BAL	7988653	N/A	2022/05/11	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ152 **Collected:** 2022/03/31
Sample ID: 4-MW218-93 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993668	2022/05/13	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7935115	2022/04/12	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993373	2022/05/13	2022/05/13	Daniel Teclu
Moisture	BAL	7988653	N/A	2022/05/11	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ153 **Collected:** 2022/03/31
Sample ID: 4-MW218-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

Bureau Veritas ID: SHJ153 Dup **Collected:** 2022/03/31
Sample ID: 4-MW218-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

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TEST SUMMARY

Bureau Veritas ID: SHJ154 **Collected:** 2022/03/31
Sample ID: 4-MW219-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ155 **Collected:** 2022/03/31
Sample ID: 4-MW219-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ161 **Collected:** 2022/04/01
Sample ID: 4-MW224-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935088	2022/04/11	2022/04/12	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ161 Dup **Collected:** 2022/04/01
Sample ID: 4-MW224-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935088	2022/04/11	2022/04/12	(Kent) Maolin Li

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TEST SUMMARY

Bureau Veritas ID: SHJ162 **Collected:** 2022/04/01
Sample ID: 4-MW224-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ162 Dup **Collected:** 2022/04/01
Sample ID: 4-MW224-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran

Bureau Veritas ID: SHJ163 **Collected:** 2022/04/01
Sample ID: 4-MW224-4 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

Bureau Veritas ID: SHJ164 **Collected:** 2022/04/04
Sample ID: 4-MW225-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934970	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ164 Dup **Collected:** 2022/04/04
Sample ID: 4-MW225-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai

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Bureau Veritas Job #: C291245
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHJ165
Sample ID: 4-MW225-91
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ166
Sample ID: 4-MW225-3A
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7993668	2022/05/13	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7993373	2022/05/13	2022/05/13	Daniel Teclu
Moisture	BAL	7988653	N/A	2022/05/11	Mathew Bowles
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ167
Sample ID: 4-MW225-5B
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7993800	2022/05/13	2022/05/13	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles

Bureau Veritas ID: SHJ167 Dup
Sample ID: 4-MW225-5B
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles

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Bureau Veritas Job #: C291245
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC4
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHJ168
Sample ID: 4-MW226-1
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926278	N/A	2022/04/12	Automated Statchk
Hot Water Extractable Boron	ICP	7932848	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7933314	2022/04/11	2022/04/12	Aditiben Patel
Conductivity	AT	7935115	2022/04/08	2022/04/12	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929716	2022/04/08	2022/04/12	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7932038	N/A	2022/04/11	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935118	2022/04/11	2022/04/12	Dennis Ngondu
Acid Extractable Metals by ICPMS	ICP/MS	7933657	2022/04/11	2022/04/12	Daniel Teclu
Moisture	BAL	7926858	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7934381	2022/04/11	2022/04/12	Mitesh Raj
pH CaCl2 EXTRACT	AT	7933708	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SHJ169
Sample ID: 4-MW226-3
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933957	2022/04/11	2022/04/12	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7926285	N/A	2022/04/13	Automated Statchk

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GENERAL COMMENTS

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

Package 1	3.7°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 4-MW218-4 and 4-MW224-4 as per client.

Sample SHJ149 [4-MW218-1] : 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 SHJ150 [4-MW218-91] : 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 SHJ153 [4-MW218-4] : 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 SHJ154 [4-MW219-1] : 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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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7932038	1,4-Difluorobenzene	2022/04/11	100	60 - 140	101	60 - 140	103	%				
7932038	4-Bromofluorobenzene	2022/04/11	100	60 - 140	98	60 - 140	94	%				
7932038	D10-o-Xylene	2022/04/11	122	60 - 140	105	60 - 140	100	%				
7932038	D4-1,2-Dichloroethane	2022/04/11	99	60 - 140	101	60 - 140	105	%				
7934381	D10-Anthracene	2022/04/12	98	50 - 130	100	50 - 130	100	%				
7934381	D14-Terphenyl (FS)	2022/04/12	91	50 - 130	89	50 - 130	86	%				
7934381	D8-Acenaphthylene	2022/04/12	92	50 - 130	95	50 - 130	88	%				
7934970	o-Terphenyl	2022/04/12	95	60 - 130	92	60 - 130	97	%				
7935088	o-Terphenyl	2022/04/12	92	60 - 130	90	60 - 130	93	%				
7935118	o-Terphenyl	2022/04/12	97	60 - 130	98	60 - 130	102	%				
7926858	Moisture	2022/04/07							3.0	20		
7929716	Chromium (VI)	2022/04/12	75	70 - 130	86	80 - 120	<0.18	ug/g	NC	35		
7932038	Benzene	2022/04/11	120	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7932038	Ethylbenzene	2022/04/11	136	50 - 140	121	50 - 140	<0.020	ug/g	NC	50		
7932038	F1 (C6-C10) - BTEX	2022/04/11					<10	ug/g	NC	30		
7932038	F1 (C6-C10)	2022/04/11	105	60 - 140	91	80 - 120	<10	ug/g	NC	30		
7932038	o-Xylene	2022/04/11	130	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7932038	p+m-Xylene	2022/04/11	127	50 - 140	111	50 - 140	<0.040	ug/g	NC	50		
7932038	Toluene	2022/04/11	114	50 - 140	102	50 - 140	<0.020	ug/g	NC	50		
7932038	Total Xylenes	2022/04/11					<0.040	ug/g	NC	50		
7932848	Hot Water Ext. Boron (B)	2022/04/11	111	75 - 125	100	75 - 125	<0.050	ug/g	10	40		
7933314	WAD Cyanide (Free)	2022/04/12	91	75 - 125	94	80 - 120	<0.01	ug/g	NC	35		
7933657	Acid Extractable Antimony (Sb)	2022/04/12	98	75 - 125	104	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Arsenic (As)	2022/04/12	97	75 - 125	98	80 - 120	<1.0	ug/g	NC	30		
7933657	Acid Extractable Barium (Ba)	2022/04/12	89	75 - 125	96	80 - 120	<0.50	ug/g	11	30		
7933657	Acid Extractable Beryllium (Be)	2022/04/12	98	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Boron (B)	2022/04/12	95	75 - 125	98	80 - 120	<5.0	ug/g	NC	30		
7933657	Acid Extractable Cadmium (Cd)	2022/04/12	98	75 - 125	101	80 - 120	<0.10	ug/g	NC	30		
7933657	Acid Extractable Chromium (Cr)	2022/04/12	94	75 - 125	100	80 - 120	<1.0	ug/g	13	30		
7933657	Acid Extractable Cobalt (Co)	2022/04/12	98	75 - 125	100	80 - 120	<0.10	ug/g	16	30		
7933657	Acid Extractable Copper (Cu)	2022/04/12	97	75 - 125	99	80 - 120	<0.50	ug/g	3.2	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7933657	Acid Extractable Lead (Pb)	2022/04/12	95	75 - 125	99	80 - 120	<1.0	ug/g	6.8	30		
7933657	Acid Extractable Mercury (Hg)	2022/04/12	83	75 - 125	88	80 - 120	<0.050	ug/g				
7933657	Acid Extractable Molybdenum (Mo)	2022/04/12	96	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7933657	Acid Extractable Nickel (Ni)	2022/04/12	101	75 - 125	101	80 - 120	<0.50	ug/g	6.3	30		
7933657	Acid Extractable Selenium (Se)	2022/04/12	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7933657	Acid Extractable Silver (Ag)	2022/04/12	97	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7933657	Acid Extractable Thallium (Tl)	2022/04/12	97	75 - 125	101	80 - 120	<0.050	ug/g	NC	30		
7933657	Acid Extractable Uranium (U)	2022/04/12	95	75 - 125	99	80 - 120	<0.050	ug/g	15	30		
7933657	Acid Extractable Vanadium (V)	2022/04/12	94	75 - 125	99	80 - 120	<5.0	ug/g	11	30		
7933657	Acid Extractable Zinc (Zn)	2022/04/12	95	75 - 125	101	80 - 120	<5.0	ug/g	7.1	30		
7933708	Available (CaCl2) pH	2022/04/11			101	97 - 103			0.50	N/A		
7933957	Conductivity	2022/04/12			101	90 - 110	<0.002	mS/cm	3.8	10		
7934381	1-Methylnaphthalene	2022/04/12	120	50 - 130	120	50 - 130	<0.0050	ug/g	NC	40		
7934381	2-Methylnaphthalene	2022/04/12	112	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Acenaphthene	2022/04/12	109	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40		
7934381	Acenaphthylene	2022/04/12	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7934381	Anthracene	2022/04/12	106	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(a)anthracene	2022/04/12	122	50 - 130	116	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(a)pyrene	2022/04/12	111	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(b/j)fluoranthene	2022/04/12	108	50 - 130	113	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(g,h,i)perylene	2022/04/12	114	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7934381	Benzo(k)fluoranthene	2022/04/12	110	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7934381	Chrysene	2022/04/12	113	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40		
7934381	Dibenzo(a,h)anthracene	2022/04/12	111	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
7934381	Fluoranthene	2022/04/12	112	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Fluorene	2022/04/12	108	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40		
7934381	Indeno(1,2,3-cd)pyrene	2022/04/12	114	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40		
7934381	Naphthalene	2022/04/12	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40		
7934381	Phenanthrene	2022/04/12	110	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40		
7934381	Pyrene	2022/04/12	112	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40		
7934970	F2 (C10-C16 Hydrocarbons)	2022/04/12	109	60 - 130	109	80 - 120	<10	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7934970	F3 (C16-C34 Hydrocarbons)	2022/04/12	113	60 - 130	112	80 - 120	<50	ug/g	20	30		
7934970	F4 (C34-C50 Hydrocarbons)	2022/04/12	NC	60 - 130	115	80 - 120	<50	ug/g	58 (1)	30		
7935088	F2 (C10-C16 Hydrocarbons)	2022/04/12	95	60 - 130	93	80 - 120	<10	ug/g	NC	30		
7935088	F3 (C16-C34 Hydrocarbons)	2022/04/12	96	60 - 130	93	80 - 120	<50	ug/g	NC	30		
7935088	F4 (C34-C50 Hydrocarbons)	2022/04/12	94	60 - 130	91	80 - 120	<50	ug/g	NC	30		
7935115	Conductivity	2022/04/12			98	90 - 110	<0.002	mS/cm	0.34	10		
7935118	F2 (C10-C16 Hydrocarbons)	2022/04/12	105	60 - 130	108	80 - 120	<10	ug/g	NC	30		
7935118	F3 (C16-C34 Hydrocarbons)	2022/04/12	105	60 - 130	108	80 - 120	<50	ug/g	NC	30		
7935118	F4 (C34-C50 Hydrocarbons)	2022/04/12	104	60 - 130	107	80 - 120	<50	ug/g	NC	30		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7988653	Moisture	2022/05/11							3.9	20		
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35		
7993373	Acid Extractable Antimony (Sb)	2022/05/13	85	75 - 125	102	80 - 120	<0.20	ug/g	9.3	30		
7993373	Acid Extractable Arsenic (As)	2022/05/13	98	75 - 125	98	80 - 120	<1.0	ug/g	11	30		
7993373	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	98	80 - 120	<0.50	ug/g	3.0	30		
7993373	Acid Extractable Beryllium (Be)	2022/05/13	103	75 - 125	100	80 - 120	<0.20	ug/g	6.9	30		
7993373	Acid Extractable Boron (B)	2022/05/13	92	75 - 125	115	80 - 120	<5.0	ug/g	7.7	30		
7993373	Acid Extractable Cadmium (Cd)	2022/05/13	100	75 - 125	98	80 - 120	<0.10	ug/g	4.4	30		
7993373	Acid Extractable Chromium (Cr)	2022/05/13	NC	75 - 125	99	80 - 120	<1.0	ug/g	3.5	30		
7993373	Acid Extractable Cobalt (Co)	2022/05/13	100	75 - 125	99	80 - 120	<0.10	ug/g	2.8	30		
7993373	Acid Extractable Copper (Cu)	2022/05/13	NC	75 - 125	97	80 - 120	<0.50	ug/g	2.8	30		
7993373	Acid Extractable Lead (Pb)	2022/05/13	101	75 - 125	99	80 - 120	<1.0	ug/g	2.4	30		
7993373	Acid Extractable Mercury (Hg)	2022/05/13	84	75 - 125	87	80 - 120	<0.050	ug/g	0.50	30		
7993373	Acid Extractable Molybdenum (Mo)	2022/05/13	99	75 - 125	100	80 - 120	<0.50	ug/g	7.9	30		
7993373	Acid Extractable Nickel (Ni)	2022/05/13	NC	75 - 125	101	80 - 120	<0.50	ug/g	0.67	30		
7993373	Acid Extractable Selenium (Se)	2022/05/13	100	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
7993373	Acid Extractable Silver (Ag)	2022/05/13	102	75 - 125	102	80 - 120	<0.20	ug/g	7.7	30		
7993373	Acid Extractable Thallium (Tl)	2022/05/13	101	75 - 125	99	80 - 120	<0.050	ug/g	7.4	30		
7993373	Acid Extractable Uranium (U)	2022/05/13	100	75 - 125	99	80 - 120	<0.050	ug/g	3.7	30		
7993373	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	99	80 - 120	<5.0	ug/g	5.7	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7993373	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	97	80 - 120	<5.0	ug/g	1.2	30		
7993668	Hot Water Ext. Boron (B)	2022/05/13	112	75 - 125	108	75 - 125	<0.050	ug/g	NC	40		
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35		
7993800	Conductivity	2022/05/13			100	90 - 110	<0.002	mS/cm	0.41	10		
7994222	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.79	N/A		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

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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 Signature Page.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	~~#30085 Parkland Fuel Corporation~~ Terrapex Environmental Ltd	Company Name:	#27399 Terrapex Environmental Ltd	Quotation #:	~~B93691~~ C21481	BV Labs Job #:	Bottle Order #: 849280
Attention:	~~Sadiq Mohammed~~ Accounts Payable	Attention:	~~Geoff Lussier~~ Roy Yu	P.O. #:	-		
Address:	~~1800, 240-4th Ave SW~~ 90 Scarsdale Road	Address:	~~920 Brant St Unit 16~~	Project:	~~CB876.02~~ CT3243.01	COC #: C#849280-01-01	Project Manager: Kudrat Bajwa
	~~Calgary AB T2P 4H4~~ Tor. ON M3B 2R7		~~Burlington ON M3B 2R7~~	Project Name:	Grand Niagara Golf		
Tel:	~~(403) 567-2500~~ (416) 245-0011 Fax: (587) 230-3949	Tel:	~~(905) 632-5939~~ Fax:	Site #:	RSC 4		
Email:	~~kristen.burmeister@bvlabs.com~~ accountspayable@terrapex...	Email:	~~g.lussier@terrapex.com~~ r.yu@terrapex.com	Sampled By:	R.A.P		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; O.Reg 153 PHCs, BTEX/F1-F4; Metals and Inorganics; EC/SAR; PAHs

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	O.Reg 153 PHCs, BTEX/F1-F4	Metals and Inorganics	EC/SAR	PAHs	# of Bottles	Comments
1	✓	4-MW218-1	MAR 3/22	9 AM	Soil	N	X	X		X	4	
2	✓	4-MW218-91		9 AM			X	X		X	4	
3	✓	4-MW218-3		10 AM					X		2	
4	✓	4-MW218-93		10 AM					X		2	
5	✓	4-MW218-4		11 AM			X				3	
6	✓	4-BH219-1		1 PM			X	X			4	
7	✓	4-BH219-2		1:30 PM					X		2	
8		~~4-MW220-1~~		~~3 PM~~								
9		~~4-MW220-3~~		~~3:30 PM~~								
10		~~4-MW220-5~~		~~4 PM~~								~~On Hold~~

06-Apr-22 16:10
Kudrat Bajwa
C291245
NP4 ENV-1452

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive
Raymond Agustin	22/04/05	8 PM	Abdul...	22/04/06	16:10	6	

Laboratory Use Only
Temperature (°C) on Recei: 4/3/4
Custody Seal: Present — Yes; Intact — Yes

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#30085 Parkland Fuel Corporation~~ TERRAPEX ENVIRONMENTAL	Company Name: ~~#27399~~ Terrapex Environmental Ltd	Quotation #: ~~B93691~~ C214B1	BV Labs Job #:
Attention: ~~Sadiq Mohammed~~ ROY YU	Attention: ~~Geoff Lussier~~ ROY YU	P.O. #:	Bottle Order #: 827276
Address: ~~1800, 240-4th Ave SW~~ 90 SCARSDALE ROAD ~~Calgary AB T2P 4H4~~	Address: ~~65 Nebo Road~~ ~~Hamilton ON L8W 2C9~~	Project: ~~CB1130.01~~ CT3243.01	COC #: C#827276-01-01
Tel: ~~(403) 567-2500~~ Fax: ~~(587) 230-3949~~	Tel: ~~(905) 632-5939~~ Fax:	Project Name: GRAND NIAGARA GOLF	Project Manager: Kudrat Bajwa
Email: ~~kristen.burmeister@bvlabs.com~~	Email: g.lussier@terrapex.com r.yu@terrapex.com	Site #: RSC4	
		Sampled By: RP	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	BTEX / PHCs (F1-F4)	METALS AND INORGANICS IEC/SAR	PAHs	# of Bottles	Comments
1	✓	4-MW224-1	APRIL 1/22	4 PM	SOIL	N	X	X	X	4	
2	✓	4-MW224-3	↓	4:30PM	↓	↓		X		2	
3	✓	4-MW224-4	↓	5PM	↓	↓				4	ON HOLD.
4	✓	4-MW225-1	APRIL 4/22	9 AM	↓	↓	X	X	X	4	
5	✓	4-MW225-91	↓	9 AM	↓	↓	X	X	X	4	
6	✓	4-MW225-3A	↓	10 AM	↓	↓		X		2	
7	✓	4-MW225-5B	↓	10:30AM	↓	↓	X			3	
8	✓	4-MW226-1	APRIL 4/22	3PM	↓	↓	X	X	X	4	
9	✓	4-MW226-3	↓	3:30PM	↓	↓		X		2	
10	✓	4-MW226-5	↓	4PM	↓	↓				4	ON HOLD

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
RAYMOND AMAN	22/04/05	8PM				0

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.

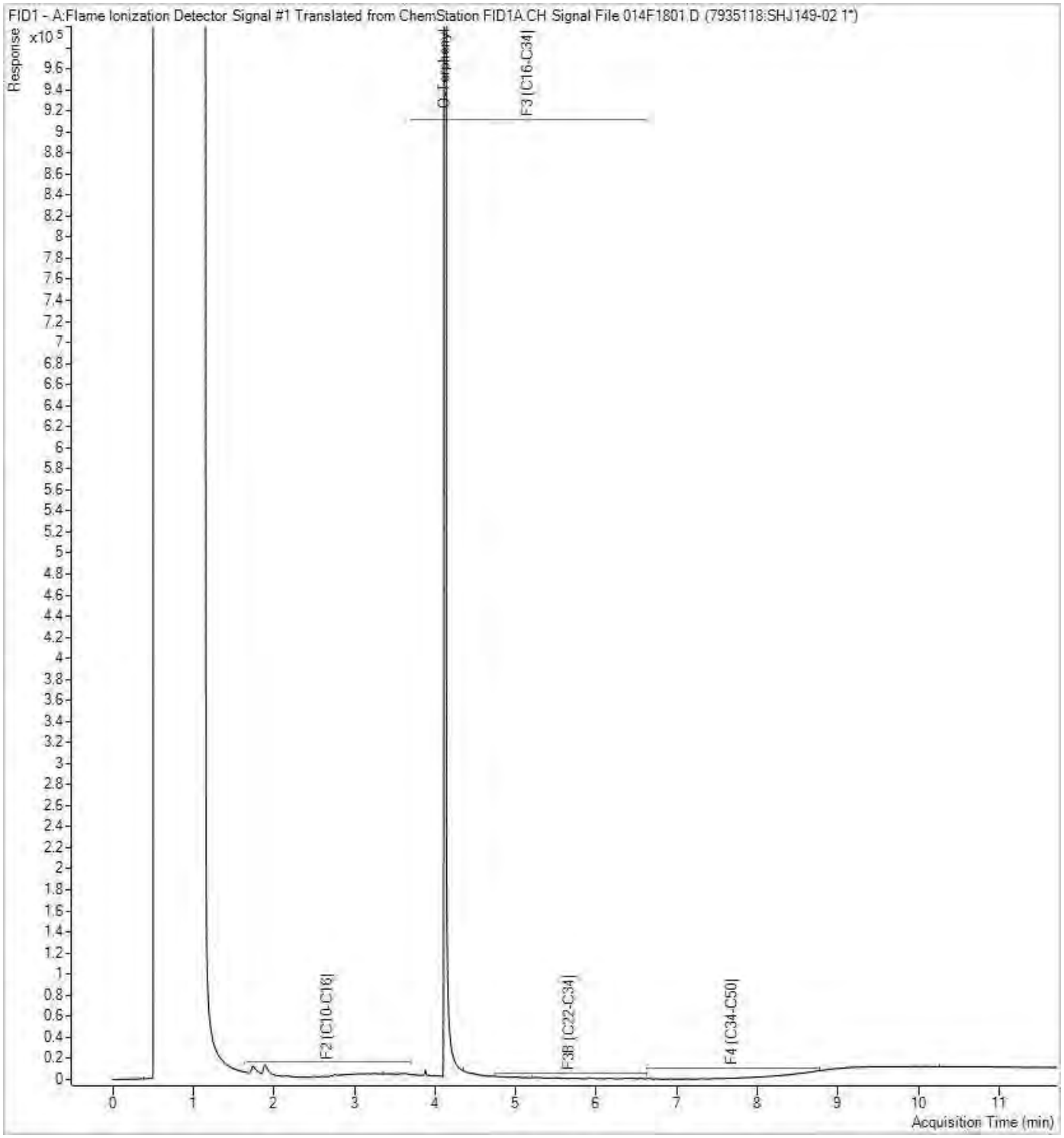
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

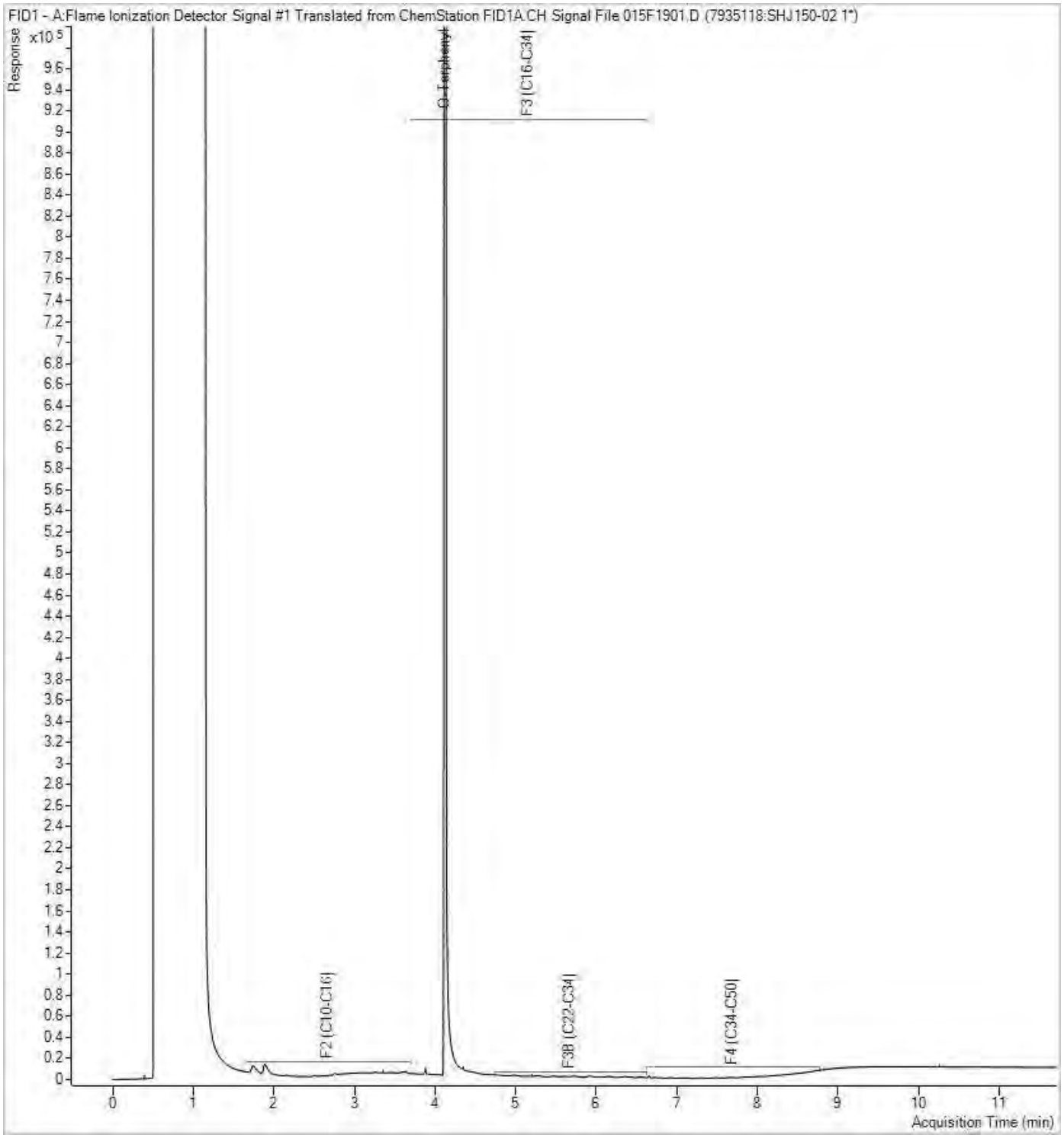
Bureau Veritas Canada (2019) Inc.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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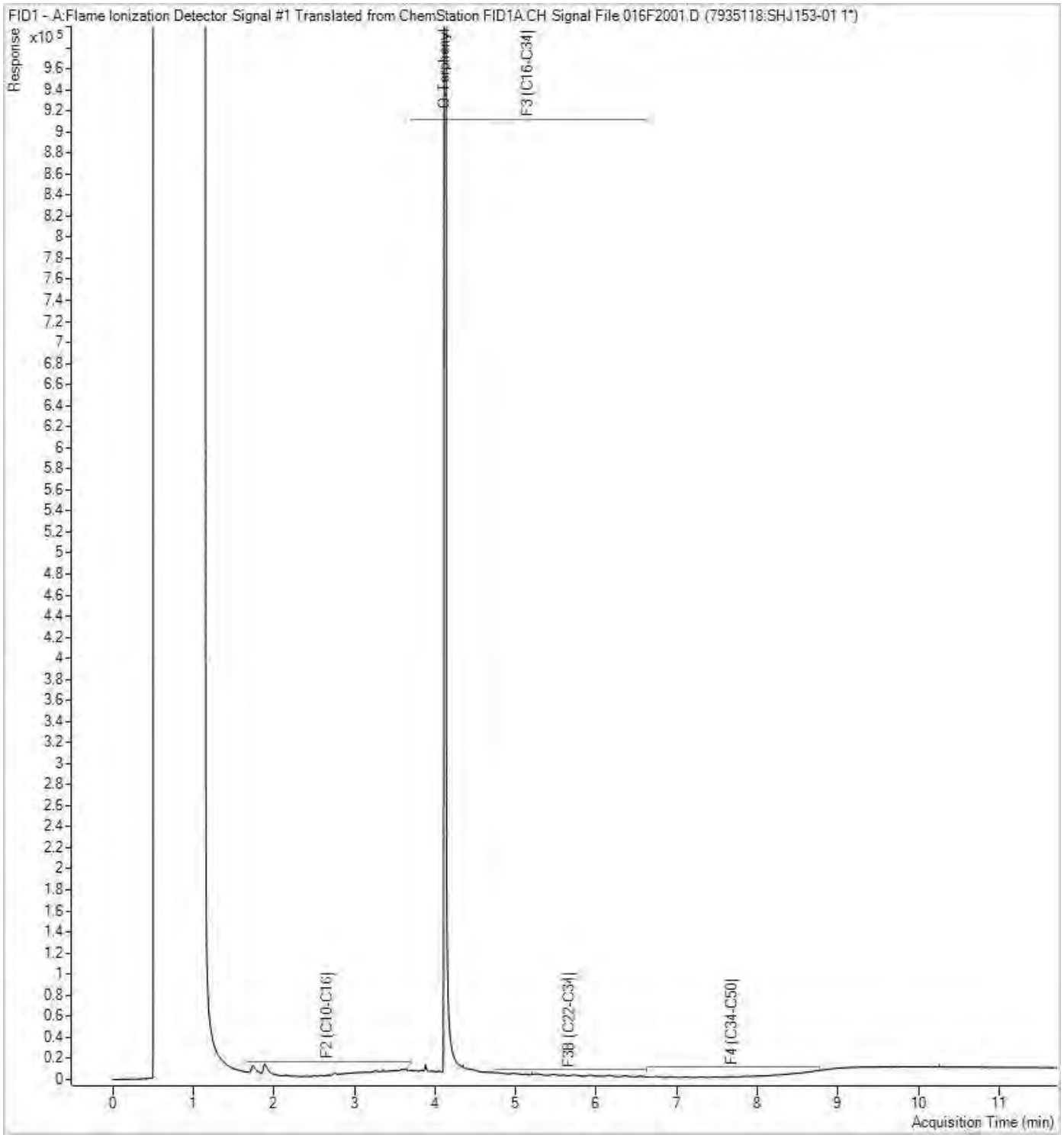
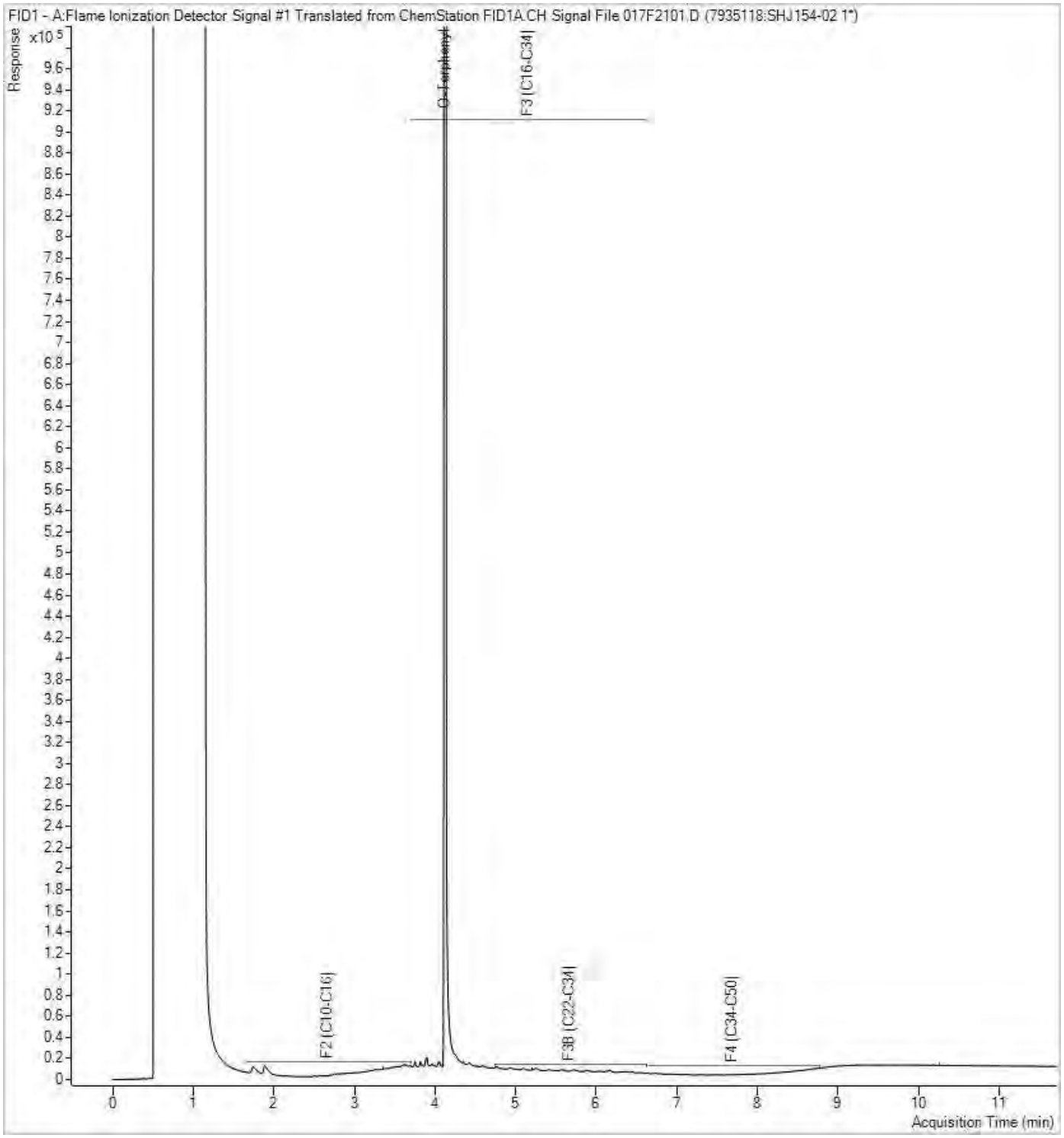
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



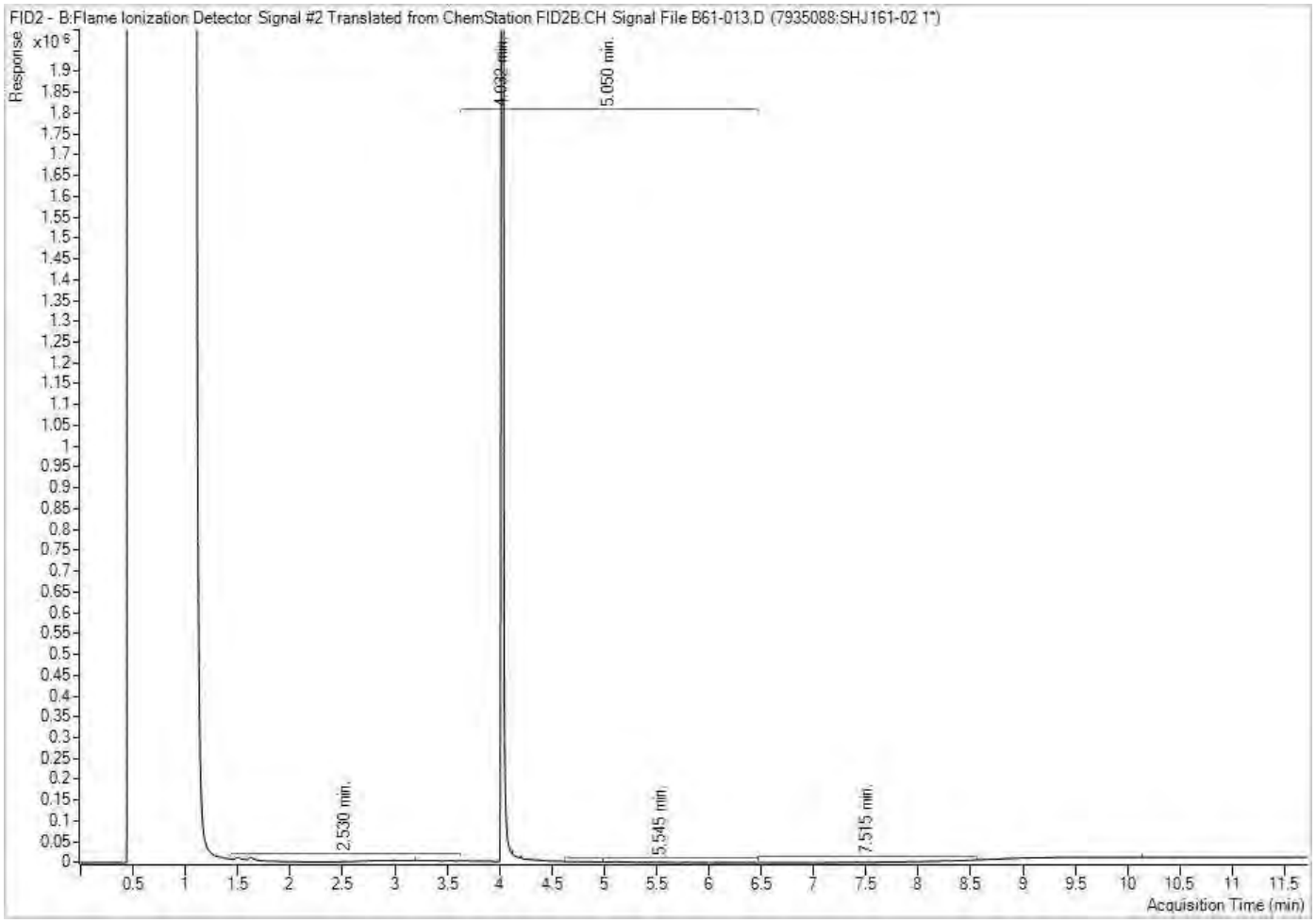
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



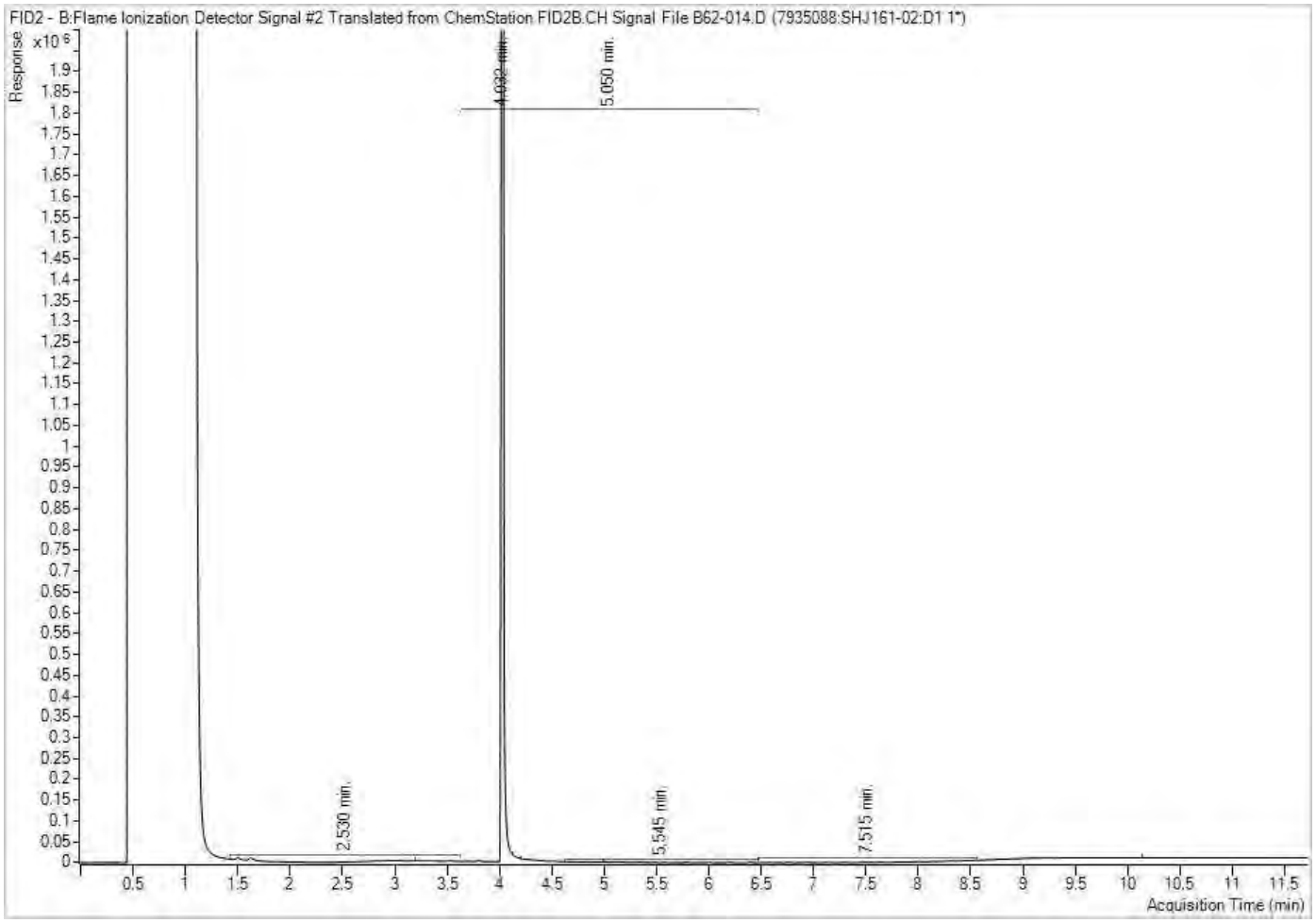
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



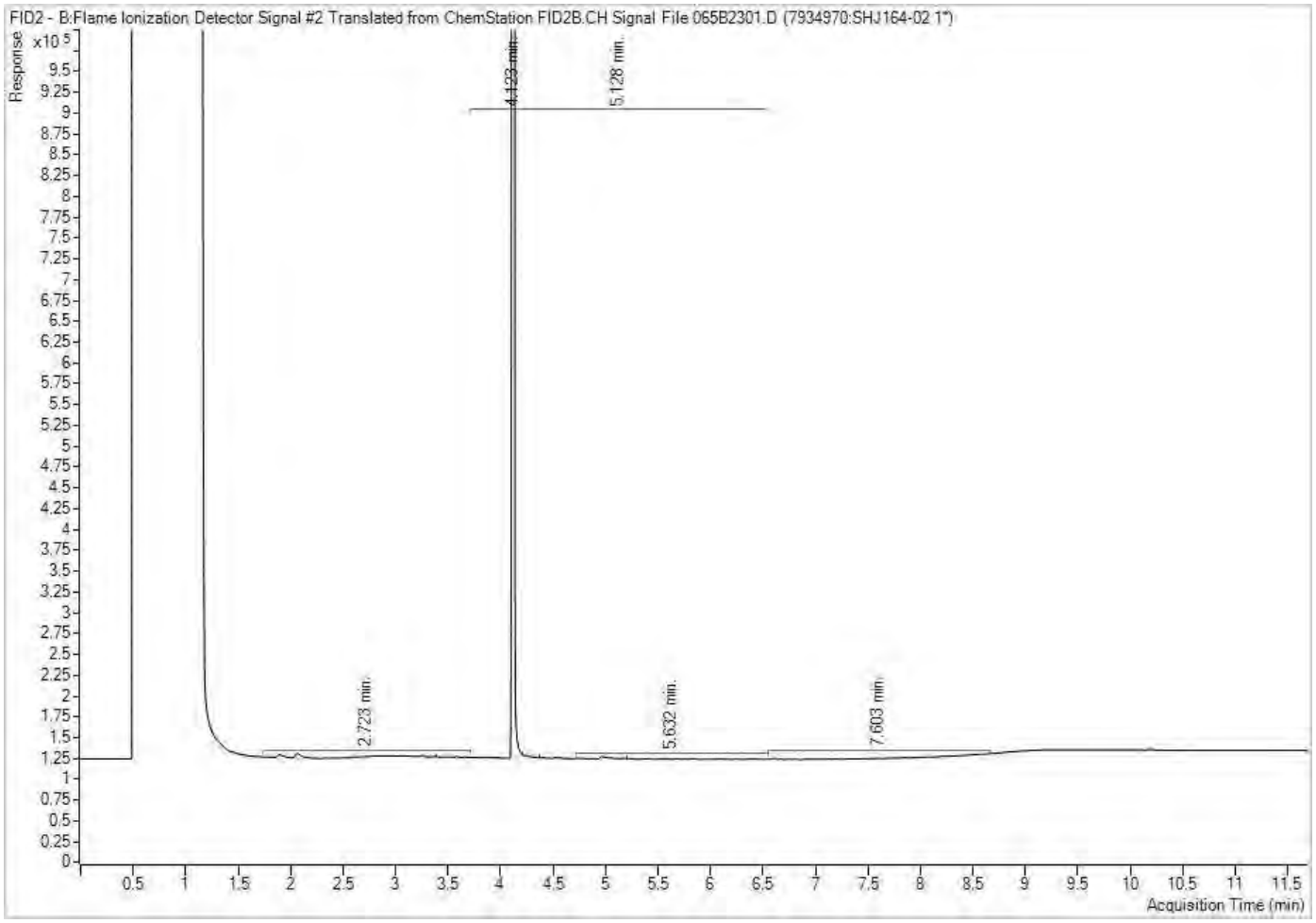
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



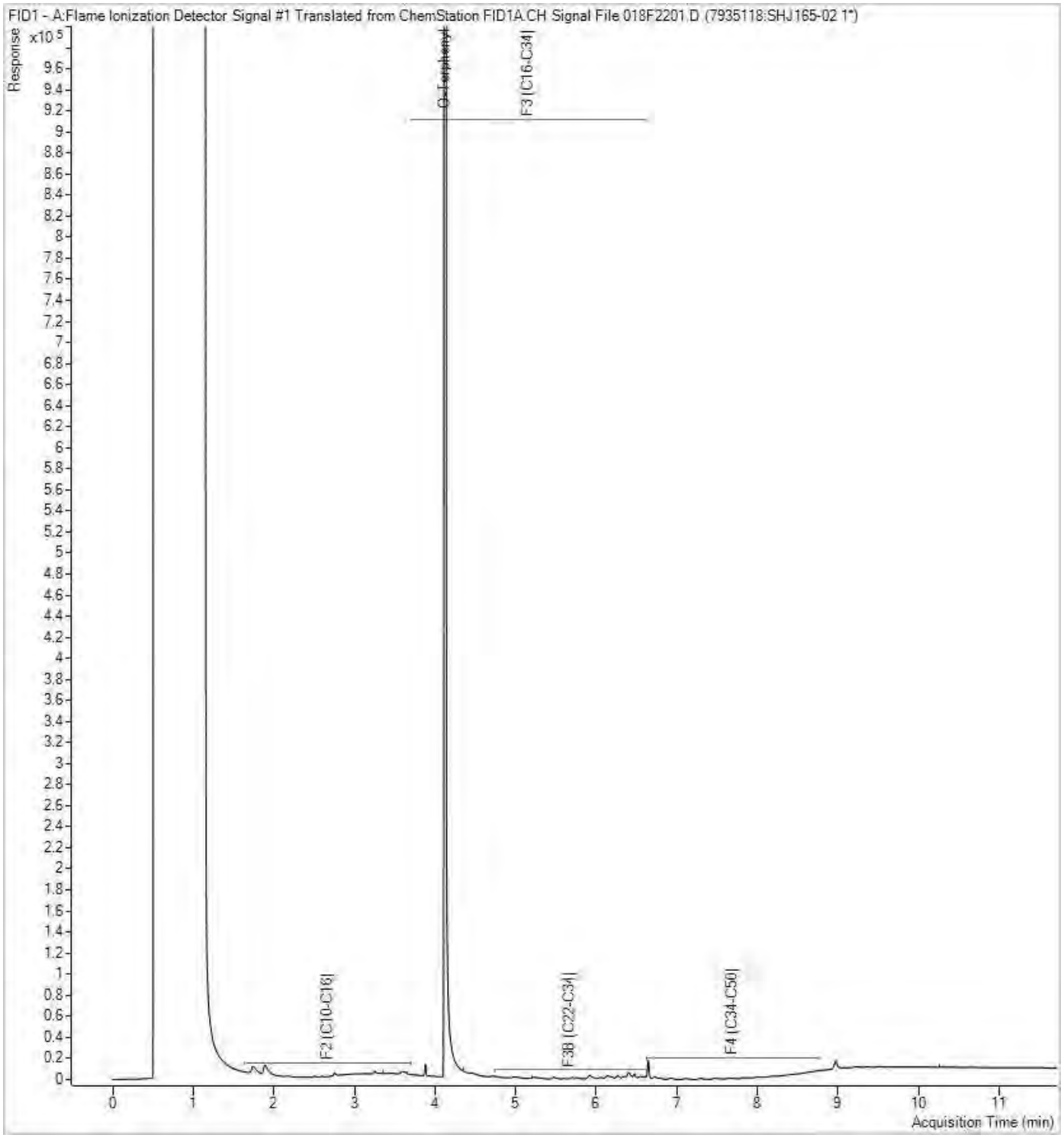
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

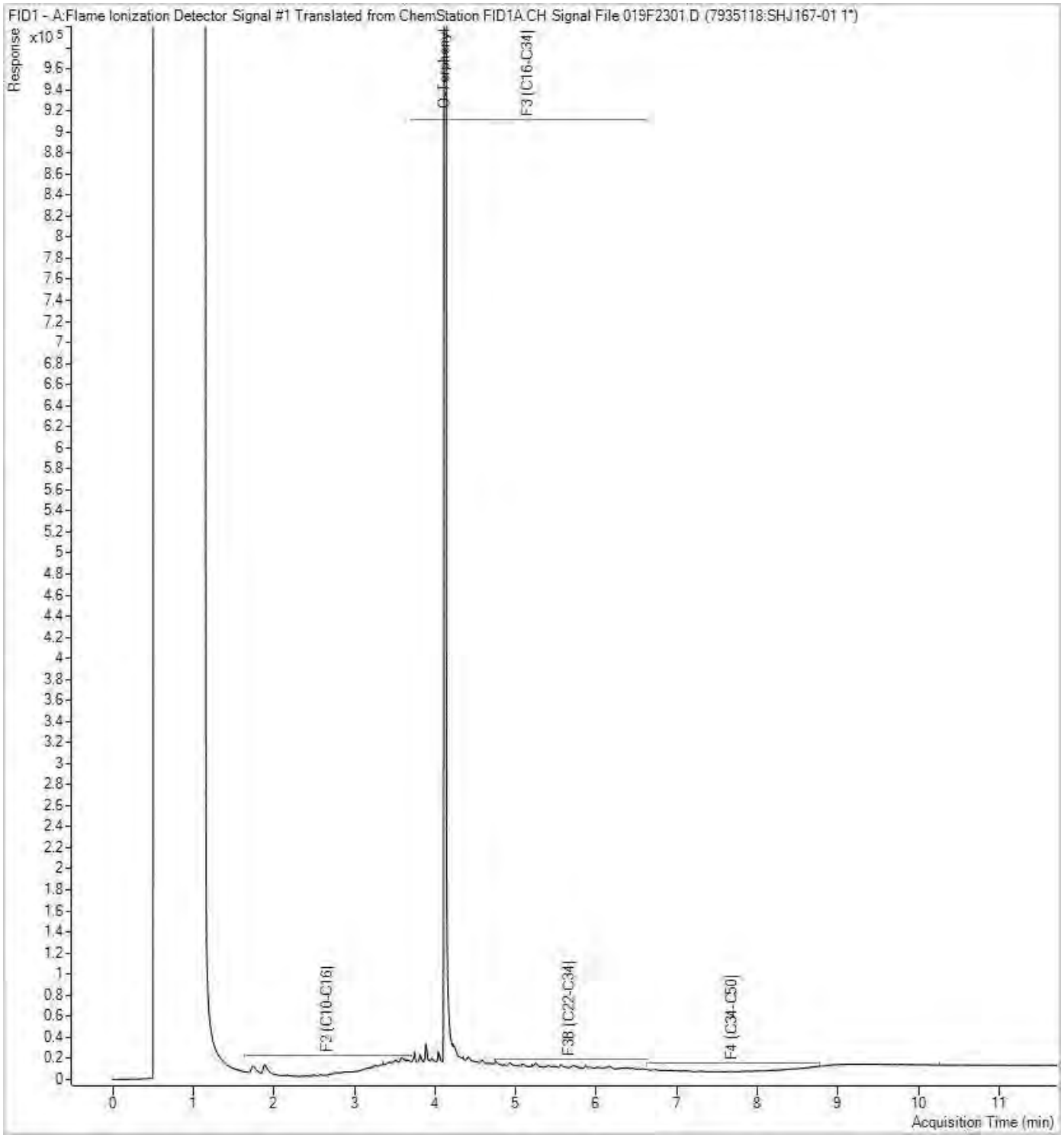


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C291245
Report Date: 2022/05/17
Bureau Veritas Sample: SHJ167

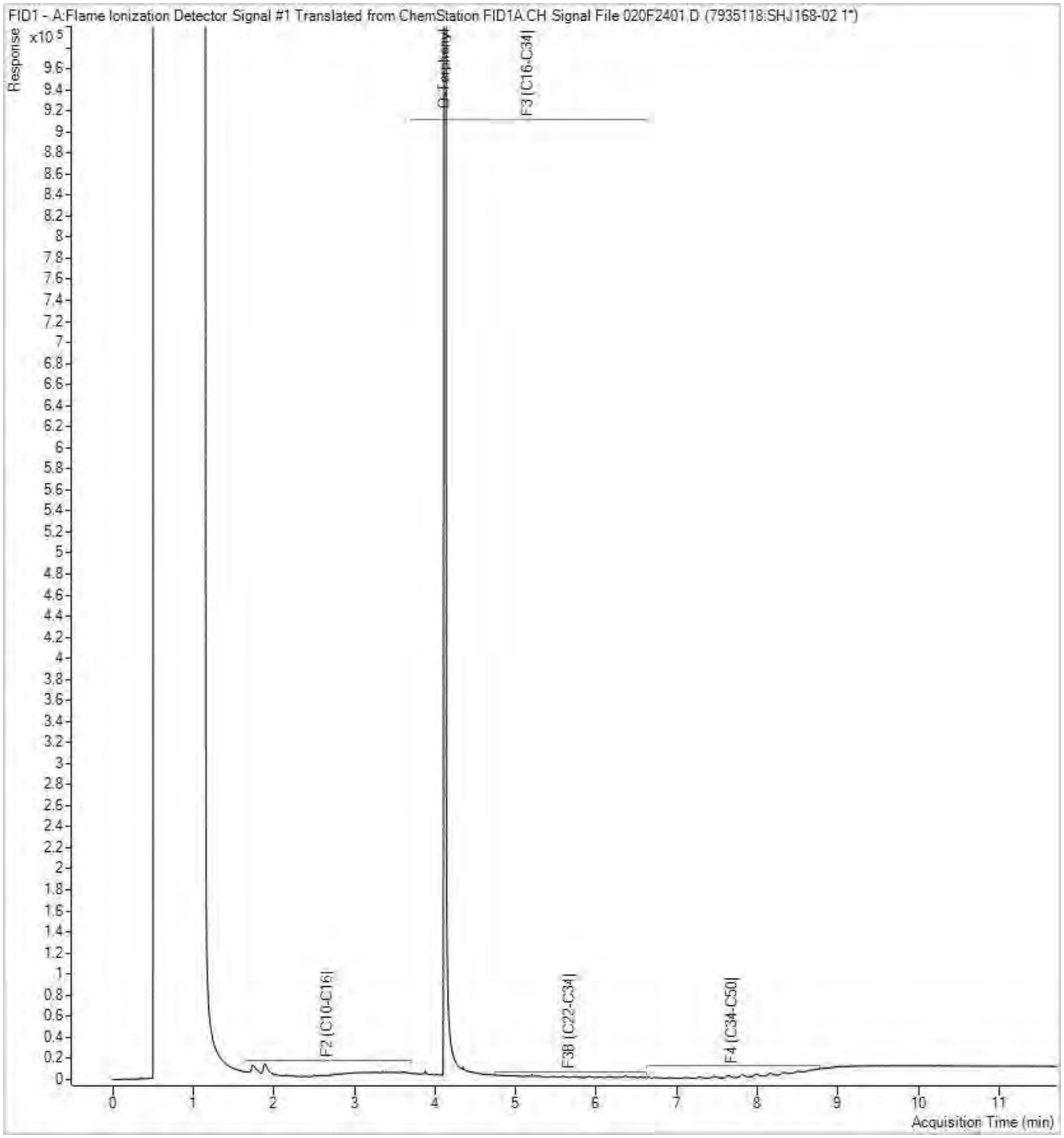
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC4
Client ID: 4-MW225-5B

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.

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.

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 849476-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/20
Report #: R7092512
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C296106
Received: 2022/04/11, 17:35

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	1	2022/04/14	2022/04/18	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2022/04/14	2022/04/14	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/04/18	2022/04/18	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/16	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	1	N/A	2022/04/14	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	1	2022/04/14	2022/04/18	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	1	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/19	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.

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

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 849476-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/04/20
Report #: R7092512
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C296106
Received: 2022/04/11, 17:35

* 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL157		
Sampling Date		2022/04/08 09:30		
COC Number		849476-02-01		
	UNITS	4-BH238-1A	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.61		7935939
Inorganics				
Conductivity	mS/cm	1.5	0.002	7944425
Available (CaCl2) pH	pH	7.79		7944027
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944061
Chromium (VI)	ug/g	<0.18	0.18	7943480
Metals				
Hot Water Ext. Boron (B)	ug/g	0.13	0.050	7941115
Acid Extractable Antimony (Sb)	ug/g	0.28	0.20	7940870
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	7940870
Acid Extractable Barium (Ba)	ug/g	160	0.50	7940870
Acid Extractable Beryllium (Be)	ug/g	0.86	0.20	7940870
Acid Extractable Boron (B)	ug/g	11	5.0	7940870
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7940870
Acid Extractable Chromium (Cr)	ug/g	27	1.0	7940870
Acid Extractable Cobalt (Co)	ug/g	14	0.10	7940870
Acid Extractable Copper (Cu)	ug/g	25	0.50	7940870
Acid Extractable Lead (Pb)	ug/g	11	1.0	7940870
Acid Extractable Molybdenum (Mo)	ug/g	0.58	0.50	7940870
Acid Extractable Nickel (Ni)	ug/g	33	0.50	7940870
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870
Acid Extractable Thallium (Tl)	ug/g	0.21	0.050	7940870
Acid Extractable Uranium (U)	ug/g	0.93	0.050	7940870
Acid Extractable Vanadium (V)	ug/g	38	5.0	7940870
Acid Extractable Zinc (Zn)	ug/g	67	5.0	7940870
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

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

Bureau Veritas ID		SIL157			SIL157		
Sampling Date		2022/04/08 09:30			2022/04/08 09:30		
COC Number		849476-02-01			849476-02-01		
	UNITS	4-BH238-1A	RDL	QC Batch	4-BH238-1A Lab-Dup	RDL	QC Batch
Inorganics							
Moisture	%	17	1.0	7936168	17	1.0	7936168
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	7941762			
Toluene	ug/g	<0.020	0.020	7941762			
Ethylbenzene	ug/g	<0.020	0.020	7941762			
o-Xylene	ug/g	<0.020	0.020	7941762			
p+m-Xylene	ug/g	<0.040	0.040	7941762			
Total Xylenes	ug/g	<0.040	0.040	7941762			
F1 (C6-C10)	ug/g	<10	10	7941762			
F1 (C6-C10) - BTEX	ug/g	<10	10	7941762			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7946062			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7946062			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7946062			
Reached Baseline at C50	ug/g	Yes		7946062			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106		7941762			
4-Bromofluorobenzene	%	78		7941762			
D10-o-Xylene	%	108		7941762			
D4-1,2-Dichloroethane	%	112		7941762			
o-Terphenyl	%	92		7946062			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas Job #: C296106
Report Date: 2022/04/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL158		
Sampling Date		2022/04/08 09:40		
COC Number		849476-02-01		
	UNITS	4-BH238-2B	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.96		7935939
Inorganics				
Conductivity	mS/cm	0.83	0.002	7941156

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C296106
Report Date: 2022/04/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL157
Sample ID: 4-BH238-1A
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7941115	2022/04/14	2022/04/18	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7944425	2022/04/18	2022/04/18	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7941762	N/A	2022/04/14	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7936168	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

Bureau Veritas ID: SIL157 Dup
Sample ID: 4-BH238-1A
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936168	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIL158
Sample ID: 4-BH238-2B
Matrix: Soil

Collected: 2022/04/08
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7941156	2022/04/14	2022/04/14	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

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

GENERAL COMMENTS

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

Package 1	2.3°C

Results relate only to the items tested.

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

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7941762	1,4-Difluorobenzene	2022/04/14	97	60 - 140	98	60 - 140	102	%		
7941762	4-Bromofluorobenzene	2022/04/14	101	60 - 140	99	60 - 140	83	%		
7941762	D10-o-Xylene	2022/04/14	113	60 - 140	110	60 - 140	111	%		
7941762	D4-1,2-Dichloroethane	2022/04/14	104	60 - 140	108	60 - 140	115	%		
7946062	o-Terphenyl	2022/04/19	94	60 - 130	96	60 - 130	97	%		
7936168	Moisture	2022/04/12							1.7	20
7940870	Acid Extractable Antimony (Sb)	2022/04/19	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7940870	Acid Extractable Arsenic (As)	2022/04/19	96	75 - 125	99	80 - 120	<1.0	ug/g	0.71	30
7940870	Acid Extractable Barium (Ba)	2022/04/19	93	75 - 125	101	80 - 120	<0.50	ug/g	2.6	30
7940870	Acid Extractable Beryllium (Be)	2022/04/19	97	75 - 125	99	80 - 120	<0.20	ug/g	5.1	30
7940870	Acid Extractable Boron (B)	2022/04/19	101	75 - 125	98	80 - 120	<5.0	ug/g	0.51	30
7940870	Acid Extractable Cadmium (Cd)	2022/04/19	95	75 - 125	99	80 - 120	<0.10	ug/g	24	30
7940870	Acid Extractable Chromium (Cr)	2022/04/19	98	75 - 125	101	80 - 120	<1.0	ug/g	0.96	30
7940870	Acid Extractable Cobalt (Co)	2022/04/19	95	75 - 125	101	80 - 120	<0.10	ug/g	3.2	30
7940870	Acid Extractable Copper (Cu)	2022/04/19	99	75 - 125	97	80 - 120	<0.50	ug/g	2.7	30
7940870	Acid Extractable Lead (Pb)	2022/04/19	95	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30
7940870	Acid Extractable Mercury (Hg)	2022/04/19	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30
7940870	Acid Extractable Molybdenum (Mo)	2022/04/19	98	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
7940870	Acid Extractable Nickel (Ni)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30
7940870	Acid Extractable Selenium (Se)	2022/04/19	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7940870	Acid Extractable Silver (Ag)	2022/04/19	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7940870	Acid Extractable Thallium (Tl)	2022/04/19	95	75 - 125	102	80 - 120	<0.050	ug/g	14	30
7940870	Acid Extractable Uranium (U)	2022/04/19	97	75 - 125	100	80 - 120	<0.050	ug/g	3.9	30
7940870	Acid Extractable Vanadium (V)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	0.84	30
7940870	Acid Extractable Zinc (Zn)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	6.3	30
7941115	Hot Water Ext. Boron (B)	2022/04/18	96	75 - 125	101	75 - 125	<0.050	ug/g	NC	40
7941156	Conductivity	2022/04/14			100	90 - 110	<0.002	mS/cm	0.82	10
7941762	Benzene	2022/04/14	105	50 - 140	106	50 - 140	<0.020	ug/g	NC	50
7941762	Ethylbenzene	2022/04/14	112	50 - 140	113	50 - 140	<0.020	ug/g	NC	50
7941762	F1 (C6-C10) - BTEX	2022/04/14					<10	ug/g	NC	30
7941762	F1 (C6-C10)	2022/04/14	90	60 - 140	97	80 - 120	<10	ug/g	NC	30

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

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7941762	o-Xylene	2022/04/14	110	50 - 140	111	50 - 140	<0.020	ug/g	NC	50
7941762	p+m-Xylene	2022/04/14	107	50 - 140	108	50 - 140	<0.040	ug/g	NC	50
7941762	Toluene	2022/04/14	100	50 - 140	103	50 - 140	<0.020	ug/g	NC	50
7941762	Total Xylenes	2022/04/14					<0.040	ug/g	NC	50
7943480	Chromium (VI)	2022/04/18	85	70 - 130	91	80 - 120	<0.18	ug/g	22	35
7944027	Available (CaCl2) pH	2022/04/18			100	97 - 103			1.1	N/A
7944061	WAD Cyanide (Free)	2022/04/18	92	75 - 125	96	80 - 120	<0.01	ug/g	NC	35
7944425	Conductivity	2022/04/18			100	90 - 110	<0.002	mS/cm	7.6	10
7946062	F2 (C10-C16 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<10	ug/g	NC	30
7946062	F3 (C16-C34 Hydrocarbons)	2022/04/19	105	60 - 130	105	80 - 120	<50	ug/g	NC	30
7946062	F4 (C34-C50 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<50	ug/g	NC	30

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.

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 (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).

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Bureau Veritas Job #: C296106
Report Date: 2022/04/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

VALIDATION SIGNATURE PAGE

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

Cristina Carriere

Cristina Carriere, Senior 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
4398			
Company Name: #1265B Terrapex Environmental Ltd	Company Name: TERRAPEX ENVIRONMENTAL 48	Quotation #: C01024 C21481	BV Labs Job #:
Attention: Accounts Payable	Attention: Keith Brown Roy Yu	P.O. #:	Bottle Order #: 849476
Address: 1-20 Gurdwara Rd 90 SCARSDALE RD T.01 Ottawa ON K2E 8B3 M3B 2R7	Address:	Project: CB840.00 CJ3243.01	COC #:
Tel: (613) 745-647 (416)245-0011 Fax: (613) 745-0796 416-245-0012	Tel: (613) 745-6471 Ext: 225 Fax: (613) 745-0796	Project Name: GRAND NIAGARA GOLF RSC4	Project Manager: Katherine Szozda
Email: accounts.payable@terrapex.com	Email: k.brown@terrapex.com r.yu@terrapex.com	Site #: Sampled By: R. AYUEN	C#849476-02-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☐ Table 3 ☐ Agri/Other ☒ For RSC; ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ____; ☐ PWQO ☐ Reg 406 Table ____; ☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O.Reg 153 PHCs, BTEX/F1-F4	O.REG 153 VOCs / PAHs (F4 - F4)	O.REG 153 PAHs	O.REG 153 PCB / SAR	O.REG 153 METALS AND INORGANICS	# of Bottles	Comments
1		4-BH238-1A	APR 8/22	9:30AM	SOIL	N	X				X	5	
2		4-BH238-2B	APR 8/22	9:40AM	SOIL	N				X		1	
3													
4													
5													
6													
7													
8													
9													
10													

11-Apr-22 17:35
Katherine Szozda
C296106
SRS ENV-1196

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Raymond Ayuen	22/04/08	1 PM		2022/04/11	17:35	0

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
	1/3/3	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

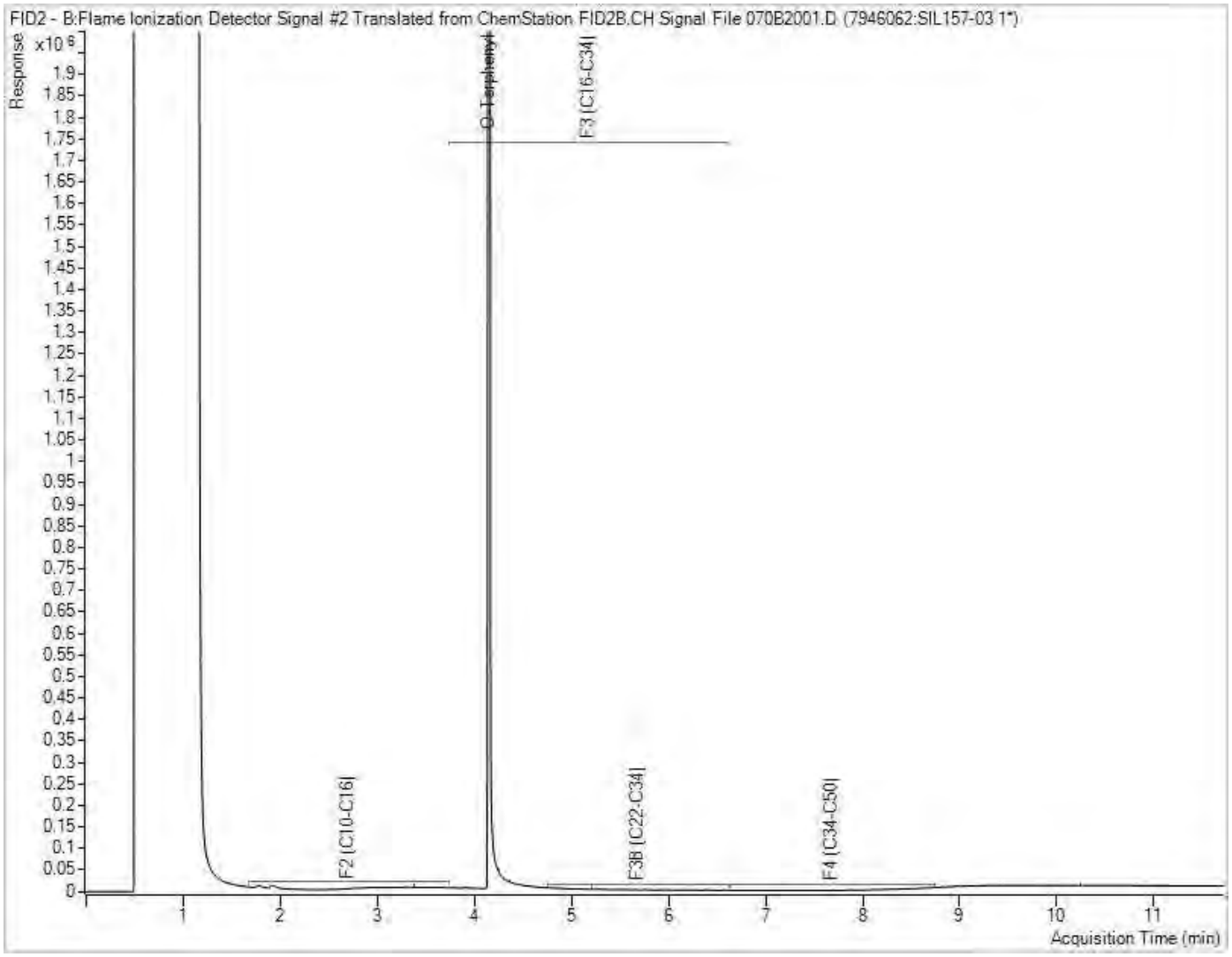
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C296106
Report Date: 2022/04/20
Bureau Veritas Sample: SIL157

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 4-BH238-1A

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.

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 849476-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128265
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296106
Received: 2022/04/11, 17:35

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	1	2022/04/14	2022/04/18	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2022/05/12	2022/05/13	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2022/04/14	2022/04/14	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2022/04/18	2022/04/18	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/04/16	2022/04/18	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/14	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	1	N/A	2022/04/14	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	1	2022/04/14	2022/04/18	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	1	2022/04/18	2022/04/18	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	2	N/A	2022/04/19	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

Your Project #: CT3243.01
Site#: RSC 4
Site Location: GRAND NIAGARA GOLF
Your C.O.C. #: 849476-02-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/17
Report #: R7128265
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C296106
Received: 2022/04/11, 17:35
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.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

Bureau Veritas Job #: C296106
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SIL157			SIL158			SIL158		
Sampling Date		2022/04/08 09:30			2022/04/08 09:40			2022/04/08 09:40		
COC Number		849476-02-01			849476-02-01			849476-02-01		
	UNITS	4-BH238-1A	RDL	QC Batch	4-BH238-2B	RDL	QC Batch	4-BH238-2B Lab-Dup	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.61		7935939						
Inorganics										
Conductivity	mS/cm	1.5	0.002	7944425						
Moisture	%				18	1.0	7987566	18	1.0	7987566
Available (CaCl2) pH	pH	7.79		7944027	7.87		7994222			
WAD Cyanide (Free)	ug/g	<0.01	0.01	7944061	<0.01	0.01	7993299			
Chromium (VI)	ug/g	<0.18	0.18	7943480	<0.18	0.18	7993725			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.13	0.050	7941115	0.20	0.050	7990894			
Acid Extractable Antimony (Sb)	ug/g	0.28	0.20	7940870	<0.20	0.20	7990745			
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	7940870	5.6	1.0	7990745			
Acid Extractable Barium (Ba)	ug/g	160	0.50	7940870	65	0.50	7990745			
Acid Extractable Beryllium (Be)	ug/g	0.86	0.20	7940870	0.49	0.20	7990745			
Acid Extractable Boron (B)	ug/g	11	5.0	7940870	5.8	5.0	7990745			
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	7940870	<0.10	0.10	7990745			
Acid Extractable Chromium (Cr)	ug/g	27	1.0	7940870	18	1.0	7990745			
Acid Extractable Cobalt (Co)	ug/g	14	0.10	7940870	9.3	0.10	7990745			
Acid Extractable Copper (Cu)	ug/g	25	0.50	7940870	25	0.50	7990745			
Acid Extractable Lead (Pb)	ug/g	11	1.0	7940870	7.2	1.0	7990745			
Acid Extractable Molybdenum (Mo)	ug/g	0.58	0.50	7940870	<0.50	0.50	7990745			
Acid Extractable Nickel (Ni)	ug/g	33	0.50	7940870	21	0.50	7990745			
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7940870	<0.50	0.50	7990745			
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7940870	<0.20	0.20	7990745			
Acid Extractable Thallium (Tl)	ug/g	0.21	0.050	7940870	0.076	0.050	7990745			
Acid Extractable Uranium (U)	ug/g	0.93	0.050	7940870	0.75	0.050	7990745			
Acid Extractable Vanadium (V)	ug/g	38	5.0	7940870	25	5.0	7990745			
Acid Extractable Zinc (Zn)	ug/g	67	5.0	7940870	47	5.0	7990745			
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7940870	<0.050	0.050	7990745			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SIL157			SIL157		
Sampling Date		2022/04/08 09:30			2022/04/08 09:30		
COC Number		849476-02-01			849476-02-01		
	UNITS	4-BH238-1A	RDL	QC Batch	4-BH238-1A Lab-Dup	RDL	QC Batch
Inorganics							
Moisture	%	17	1.0	7936168	17	1.0	7936168
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	7941762			
Toluene	ug/g	<0.020	0.020	7941762			
Ethylbenzene	ug/g	<0.020	0.020	7941762			
o-Xylene	ug/g	<0.020	0.020	7941762			
p+m-Xylene	ug/g	<0.040	0.040	7941762			
Total Xylenes	ug/g	<0.040	0.040	7941762			
F1 (C6-C10)	ug/g	<10	10	7941762			
F1 (C6-C10) - BTEX	ug/g	<10	10	7941762			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7946062			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7946062			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7946062			
Reached Baseline at C50	ug/g	Yes		7946062			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106		7941762			
4-Bromofluorobenzene	%	78		7941762			
D10-o-Xylene	%	108		7941762			
D4-1,2-Dichloroethane	%	112		7941762			
o-Terphenyl	%	92		7946062			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C296106
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIL158		
Sampling Date		2022/04/08 09:40		
COC Number		849476-02-01		
	UNITS	4-BH238-2B	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.96		7935939
Inorganics				
Conductivity	mS/cm	0.83	0.002	7941156

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas Job #: C296106
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

TEST SUMMARY

Bureau Veritas ID: SIL157 **Collected:** 2022/04/08
Sample ID: 4-BH238-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7941115	2022/04/14	2022/04/18	Suban Kanapathippllai
Free (WAD) Cyanide	TECH	7944061	2022/04/18	2022/04/18	Aditiben Patel
Conductivity	AT	7944425	2022/04/18	2022/04/18	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7943480	2022/04/16	2022/04/18	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7941762	N/A	2022/04/14	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7940870	2022/04/14	2022/04/18	Daniel Teclu
Moisture	BAL	7936168	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7944027	2022/04/18	2022/04/18	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

Bureau Veritas ID: SIL157 Dup **Collected:** 2022/04/08
Sample ID: 4-BH238-1A **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936168	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIL158 **Collected:** 2022/04/08
Sample ID: 4-BH238-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7990894	2022/05/12	2022/05/13	Medhat Nasr
Free (WAD) Cyanide	TECH	7993299	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7941156	2022/04/14	2022/04/14	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/14	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990745	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7987566	N/A	2022/05/10	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7994222	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7935939	N/A	2022/04/19	Automated Statchk

Bureau Veritas ID: SIL158 Dup **Collected:** 2022/04/08
Sample ID: 4-BH238-2B **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7987566	N/A	2022/05/10	Kruti Jitesh Patel

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[2022/05/17]: Report re-issued to include additional analysis, as per request.

Results relate only to the items tested.

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

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7941762	1,4-Difluorobenzene	2022/04/14	97	60 - 140	98	60 - 140	102	%		
7941762	4-Bromofluorobenzene	2022/04/14	101	60 - 140	99	60 - 140	83	%		
7941762	D10-o-Xylene	2022/04/14	113	60 - 140	110	60 - 140	111	%		
7941762	D4-1,2-Dichloroethane	2022/04/14	104	60 - 140	108	60 - 140	115	%		
7946062	o-Terphenyl	2022/04/19	94	60 - 130	96	60 - 130	97	%		
7936168	Moisture	2022/04/12							1.7	20
7940870	Acid Extractable Antimony (Sb)	2022/04/19	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7940870	Acid Extractable Arsenic (As)	2022/04/19	96	75 - 125	99	80 - 120	<1.0	ug/g	0.71	30
7940870	Acid Extractable Barium (Ba)	2022/04/19	93	75 - 125	101	80 - 120	<0.50	ug/g	2.6	30
7940870	Acid Extractable Beryllium (Be)	2022/04/19	97	75 - 125	99	80 - 120	<0.20	ug/g	5.1	30
7940870	Acid Extractable Boron (B)	2022/04/19	101	75 - 125	98	80 - 120	<5.0	ug/g	0.51	30
7940870	Acid Extractable Cadmium (Cd)	2022/04/19	95	75 - 125	99	80 - 120	<0.10	ug/g	24	30
7940870	Acid Extractable Chromium (Cr)	2022/04/19	98	75 - 125	101	80 - 120	<1.0	ug/g	0.96	30
7940870	Acid Extractable Cobalt (Co)	2022/04/19	95	75 - 125	101	80 - 120	<0.10	ug/g	3.2	30
7940870	Acid Extractable Copper (Cu)	2022/04/19	99	75 - 125	97	80 - 120	<0.50	ug/g	2.7	30
7940870	Acid Extractable Lead (Pb)	2022/04/19	95	75 - 125	102	80 - 120	<1.0	ug/g	3.6	30
7940870	Acid Extractable Mercury (Hg)	2022/04/19	86	75 - 125	91	80 - 120	<0.050	ug/g	NC	30
7940870	Acid Extractable Molybdenum (Mo)	2022/04/19	98	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
7940870	Acid Extractable Nickel (Ni)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30
7940870	Acid Extractable Selenium (Se)	2022/04/19	96	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7940870	Acid Extractable Silver (Ag)	2022/04/19	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7940870	Acid Extractable Thallium (Tl)	2022/04/19	95	75 - 125	102	80 - 120	<0.050	ug/g	14	30
7940870	Acid Extractable Uranium (U)	2022/04/19	97	75 - 125	100	80 - 120	<0.050	ug/g	3.9	30
7940870	Acid Extractable Vanadium (V)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	0.84	30
7940870	Acid Extractable Zinc (Zn)	2022/04/19	103	75 - 125	100	80 - 120	<5.0	ug/g	6.3	30
7941115	Hot Water Ext. Boron (B)	2022/04/18	96	75 - 125	101	75 - 125	<0.050	ug/g	NC	40
7941156	Conductivity	2022/04/14			100	90 - 110	<0.002	mS/cm	0.82	10
7941762	Benzene	2022/04/14	105	50 - 140	106	50 - 140	<0.020	ug/g	NC	50
7941762	Ethylbenzene	2022/04/14	112	50 - 140	113	50 - 140	<0.020	ug/g	NC	50
7941762	F1 (C6-C10) - BTEX	2022/04/14					<10	ug/g	NC	30
7941762	F1 (C6-C10)	2022/04/14	90	60 - 140	97	80 - 120	<10	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7941762	o-Xylene	2022/04/14	110	50 - 140	111	50 - 140	<0.020	ug/g	NC	50
7941762	p+m-Xylene	2022/04/14	107	50 - 140	108	50 - 140	<0.040	ug/g	NC	50
7941762	Toluene	2022/04/14	100	50 - 140	103	50 - 140	<0.020	ug/g	NC	50
7941762	Total Xylenes	2022/04/14					<0.040	ug/g	NC	50
7943480	Chromium (VI)	2022/04/18	85	70 - 130	91	80 - 120	<0.18	ug/g	22	35
7944027	Available (CaCl2) pH	2022/04/18			100	97 - 103			1.1	N/A
7944061	WAD Cyanide (Free)	2022/04/18	92	75 - 125	96	80 - 120	<0.01	ug/g	NC	35
7944425	Conductivity	2022/04/18			100	90 - 110	<0.002	mS/cm	7.6	10
7946062	F2 (C10-C16 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<10	ug/g	NC	30
7946062	F3 (C16-C34 Hydrocarbons)	2022/04/19	105	60 - 130	105	80 - 120	<50	ug/g	NC	30
7946062	F4 (C34-C50 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<50	ug/g	NC	30
7987566	Moisture	2022/05/10							1.1	20
7990745	Acid Extractable Antimony (Sb)	2022/05/13	94	75 - 125	102	80 - 120	<0.20	ug/g	NC	30
7990745	Acid Extractable Arsenic (As)	2022/05/13	101	75 - 125	104	80 - 120	<1.0	ug/g	7.2	30
7990745	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	2.5	30
7990745	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	105	80 - 120	<0.20	ug/g	6.2	30
7990745	Acid Extractable Boron (B)	2022/05/13	95	75 - 125	101	80 - 120	<5.0	ug/g	8.4	30
7990745	Acid Extractable Cadmium (Cd)	2022/05/13	101	75 - 125	99	80 - 120	<0.10	ug/g	NC	30
7990745	Acid Extractable Chromium (Cr)	2022/05/13	NC	75 - 125	106	80 - 120	<1.0	ug/g	6.9	30
7990745	Acid Extractable Cobalt (Co)	2022/05/13	100	75 - 125	104	80 - 120	<0.10	ug/g	7.6	30
7990745	Acid Extractable Copper (Cu)	2022/05/13	90	75 - 125	102	80 - 120	<0.50	ug/g	4.9	30
7990745	Acid Extractable Lead (Pb)	2022/05/13	100	75 - 125	107	80 - 120	<1.0	ug/g	6.4	30
7990745	Acid Extractable Mercury (Hg)	2022/05/13	91	75 - 125	93	80 - 120	<0.050	ug/g		
7990745	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7990745	Acid Extractable Nickel (Ni)	2022/05/13	97	75 - 125	104	80 - 120	<0.50	ug/g	5.0	30
7990745	Acid Extractable Selenium (Se)	2022/05/13	101	75 - 125	104	80 - 120	<0.50	ug/g	NC	30
7990745	Acid Extractable Silver (Ag)	2022/05/13	104	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
7990745	Acid Extractable Thallium (Tl)	2022/05/13	104	75 - 125	105	80 - 120	<0.050	ug/g	11	30
7990745	Acid Extractable Uranium (U)	2022/05/13	106	75 - 125	107	80 - 120	<0.050	ug/g	9.2	30
7990745	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	104	80 - 120	<5.0	ug/g	8.2	30
7990745	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	101	80 - 120	<5.0	ug/g	2.2	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7990894	Hot Water Ext. Boron (B)	2022/05/13	104	75 - 125	93	75 - 125	<0.050	ug/g	5.2	40
7993299	WAD Cyanide (Free)	2022/05/13	94	75 - 125	95	80 - 120	<0.01	ug/g	NC	35
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35
7994222	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.79	N/A

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.

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).

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Bureau Veritas Job #: C296106
Report Date: 2022/05/17

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF
Sampler Initials: RA

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior 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 Signature Page.

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

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: #1265B Terrapex Environmental Ltd	Company Name: TERRAPEX ENVIRONMENTAL 48	Quotation #: C01024 C21481	BV Labs Job #:
Attention: Accounts Payable	Attention: Keith Brown Roy Yu	P.O. #:	Bottle Order #: 849476
Address: 1-20 Gurdwara Rd 90 SCARSDALE RD T.01 Ottawa ON K2E 8B3 M3B 2R7	Address:	Project: CB840.00 CJ3243.01	COC #:
Tel: (613) 745-647 (416)245-0011 Fax: (613) 745-0796 416 245-0012	Tel: (613) 745-647 Ext: 225 Fax: (613) 745-0796 416 245-0011 EXT 239	Project Name: GRAND NIAGARA GOLF RSC4	Project Manager: Katherine Szozda
Email: accounts.payable@terrapex.com	Email: k.brown@terrapex.com r.yu@terrapex.com	Site #: Sampled By: R. AYUEN	C#849476-02-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☒ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality	
☒ Table 5	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? _____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	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	OREG153 VOCs/PAHs (F1-F4)	OREG153 PAHs	ORREG153 PCB/SAR	ORREG153 METALS AND INORGANICS	# of Bottles	Comments
1		4-BH238-1A	APR 8/22	9:30AM	SOIL	N	X				X	5	
2		4-BH238-2B	APR 8/22	9:40AM	SOIL	N				X		1	
3													
4													
5													
6													
7													
8													
9													
10													

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ *(call lab for #)*

11-Apr-22 17:35
Katherine Szozda
C296106
SRS ENV-1196

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Raymond Ayuen	22/04/08	1 PM	[illegible]	2022/04/11	17:35	0

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes ✓	No
	1/3/3	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

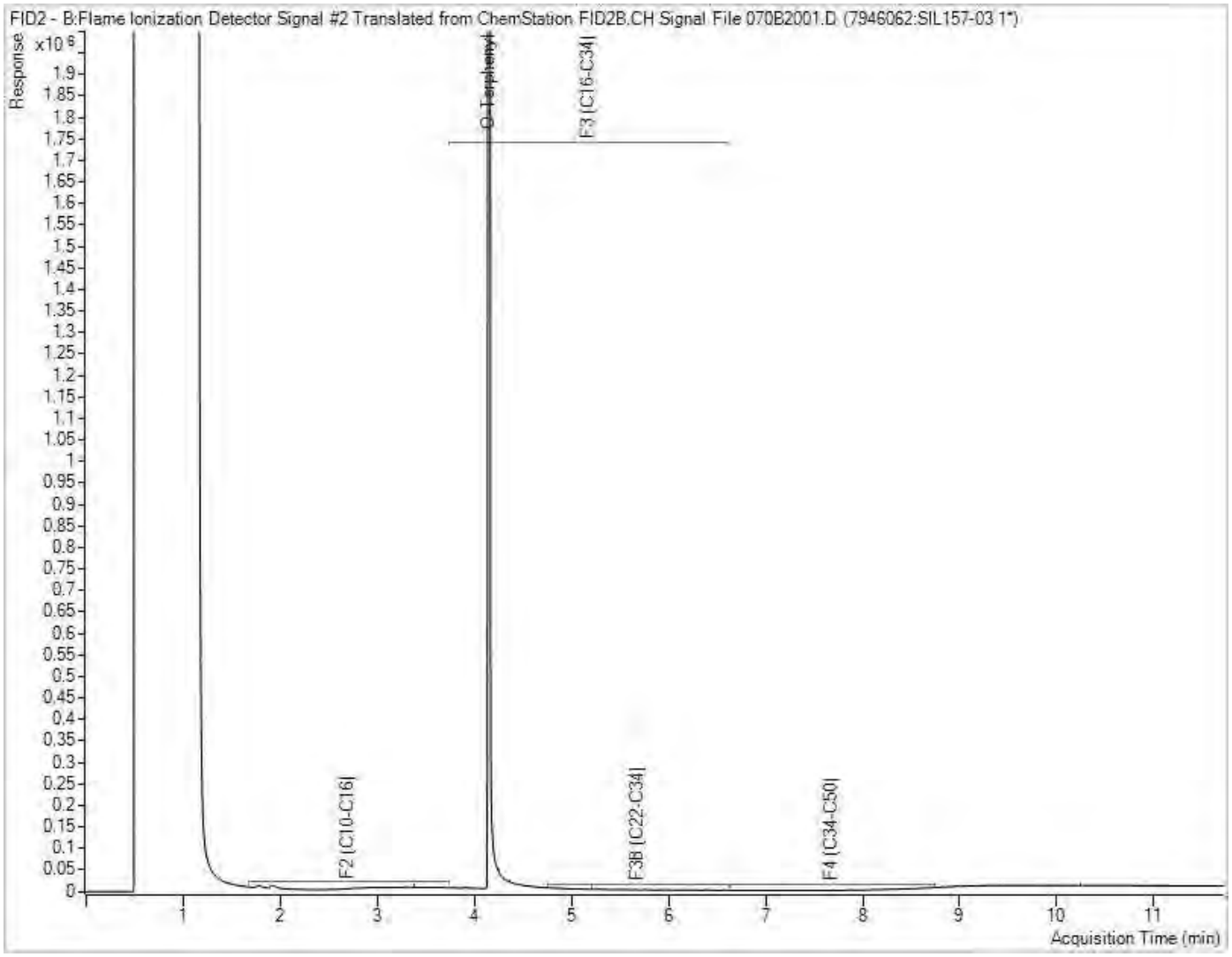
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C296106
Report Date: 2022/05/17
Bureau Veritas Sample: SIL157

Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF
Client ID: 4-BH238-1A

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 5
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7129998
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9273
Received: 2022/05/12, 16:00

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	1	2022/05/16	2022/05/16	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	1	2022/05/13	2022/05/13	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2022/05/16	2022/05/16	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/13	2022/05/14	CAM SOP-00436	EPA 3060/7199 m
Acid Extractable Metals by ICPMS	1	2022/05/16	2022/05/17	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/05/13	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	1	2022/05/13	2022/05/13	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	1	N/A	2022/05/18	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.

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.

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 5
Your C.O.C. #: N/A

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/18
Report #: R7129998
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C9273
Received: 2022/05/12, 16:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

==========

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For Service Group specific validation please refer to the Validation Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SPN192		
Sampling Date		2022/04/01 15:00		
COC Number		N/A		
	UNITS	5-BH223-2	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	0.67		7993665
Inorganics				
Conductivity	mS/cm	2.4	0.002	7997592
Moisture	%	20	1.0	7994318
Available (CaCl2) pH	pH	7.87		7994216
WAD Cyanide (Free)	ug/g	<0.01	0.01	7993289
Chromium (VI)	ug/g	<0.18	0.18	7993725
Metals				
Hot Water Ext. Boron (B)	ug/g	0.11	0.050	7996714
Acid Extractable Antimony (Sb)	ug/g	0.22	0.20	7997261
Acid Extractable Arsenic (As)	ug/g	6.2	1.0	7997261
Acid Extractable Barium (Ba)	ug/g	110	0.50	7997261
Acid Extractable Beryllium (Be)	ug/g	0.80	0.20	7997261
Acid Extractable Boron (B)	ug/g	9.5	5.0	7997261
Acid Extractable Cadmium (Cd)	ug/g	0.14	0.10	7997261
Acid Extractable Chromium (Cr)	ug/g	25	1.0	7997261
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7997261
Acid Extractable Copper (Cu)	ug/g	26	0.50	7997261
Acid Extractable Lead (Pb)	ug/g	13	1.0	7997261
Acid Extractable Molybdenum (Mo)	ug/g	0.77	0.50	7997261
Acid Extractable Nickel (Ni)	ug/g	32	0.50	7997261
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7997261
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7997261
Acid Extractable Thallium (Tl)	ug/g	0.14	0.050	7997261
Acid Extractable Uranium (U)	ug/g	0.94	0.050	7997261
Acid Extractable Vanadium (V)	ug/g	35	5.0	7997261
Acid Extractable Zinc (Zn)	ug/g	83	5.0	7997261
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7997261

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2C9273
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 5
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SPN192
Sample ID: 5-BH223-2
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/05/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7996714	2022/05/16	2022/05/16	Jolly John
Free (WAD) Cyanide	TECH	7993289	2022/05/13	2022/05/13	Nimarta Singh
Conductivity	AT	7997592	2022/05/16	2022/05/16	Neil Dassanayake
Hexavalent Chromium in Soil by IC	IC/SPEC	7993725	2022/05/13	2022/05/14	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7997261	2022/05/16	2022/05/17	Azita Fazaeli
Moisture	BAL	7994318	N/A	2022/05/13	Min Yang
pH CaCl2 EXTRACT	AT	7994216	2022/05/13	2022/05/13	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7993665	N/A	2022/05/18	Automated Statchk

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

GENERAL COMMENTS

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

Package 1	4.0°C

Conductivity, pH, Free Cyanide, , mercury and chromium 6+ analyses conducted past hold time.

Results relate only to the items tested.

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Bureau Veritas Job #: C2C9273
Report Date: 2022/05/18

QUALITY ASSURANCE REPORT

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 5
Sampler Initials: AP

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7993289	WAD Cyanide (Free)	2022/05/13	85	75 - 125	92	80 - 120	<0.01	ug/g	NC	35
7993725	Chromium (VI)	2022/05/13	85	70 - 130	91	80 - 120	<0.18	ug/g	NC	35
7994216	Available (CaCl2) pH	2022/05/13			100	97 - 103			0.44	N/A
7994318	Moisture	2022/05/13							1.1	20
7996714	Hot Water Ext. Boron (B)	2022/05/16	99	75 - 125	100	75 - 125	<0.050	ug/g	NC	40
7997261	Acid Extractable Antimony (Sb)	2022/05/17	101	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
7997261	Acid Extractable Arsenic (As)	2022/05/17	96	75 - 125	99	80 - 120	<1.0	ug/g	11	30
7997261	Acid Extractable Barium (Ba)	2022/05/17	96	75 - 125	103	80 - 120	<0.50	ug/g	3.4	30
7997261	Acid Extractable Beryllium (Be)	2022/05/17	104	75 - 125	105	80 - 120	<0.20	ug/g	NC	30
7997261	Acid Extractable Boron (B)	2022/05/17	101	75 - 125	102	80 - 120	<5.0	ug/g	2.8	30
7997261	Acid Extractable Cadmium (Cd)	2022/05/17	98	75 - 125	99	80 - 120	<0.10	ug/g	20	30
7997261	Acid Extractable Chromium (Cr)	2022/05/17	101	75 - 125	103	80 - 120	<1.0	ug/g	1.7	30
7997261	Acid Extractable Cobalt (Co)	2022/05/17	100	75 - 125	103	80 - 120	<0.10	ug/g	2.7	30
7997261	Acid Extractable Copper (Cu)	2022/05/17	97	75 - 125	101	80 - 120	<0.50	ug/g	4.5	30
7997261	Acid Extractable Lead (Pb)	2022/05/17	NC	75 - 125	100	80 - 120	<1.0	ug/g	20	30
7997261	Acid Extractable Mercury (Hg)	2022/05/17	82	75 - 125	85	80 - 120	<0.050	ug/g	NC	30
7997261	Acid Extractable Molybdenum (Mo)	2022/05/17	102	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7997261	Acid Extractable Nickel (Ni)	2022/05/17	101	75 - 125	103	80 - 120	<0.50	ug/g	2.7	30
7997261	Acid Extractable Selenium (Se)	2022/05/17	97	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7997261	Acid Extractable Silver (Ag)	2022/05/17	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7997261	Acid Extractable Thallium (Tl)	2022/05/17	94	75 - 125	99	80 - 120	<0.050	ug/g	21	30
7997261	Acid Extractable Uranium (U)	2022/05/17	101	75 - 125	104	80 - 120	<0.050	ug/g	1.6	30
7997261	Acid Extractable Vanadium (V)	2022/05/17	100	75 - 125	103	80 - 120	<5.0	ug/g	0.50	30
7997261	Acid Extractable Zinc (Zn)	2022/05/17	NC	75 - 125	103	80 - 120	<5.0	ug/g	0.53	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7997592	Conductivity	2022/05/16			100	90 - 110	<0.002	mS/cm	1.1	10

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.

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.

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).

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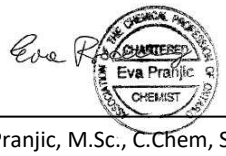
Bureau Veritas Job #: C2C9273
Report Date: 2022/05/18

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC: 5
Sampler Initials: AP

VALIDATION SIGNATURE PAGE

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



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 Signature Page.

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	Terrapex Environmental Ltd.	Company:	Terrapex Environmental Ltd.	Quotation #:	C21481
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	—
Street Address:	90 Scarsdale Rd.	Street Address:	90 Scarsdale Rd.	Project #:	CT3243.01
City:	Toronto Prov: ON Postal Code: M3B 2R7	City:	Toronto Prov: ON Postal Code: M3B2R7	Site #:	—
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	Grand Niagara Golf RSC: 5
Email:	accounts.payable@terrapex.com	Email:	r.yu@terrapex.com	Site Location Province:	—
Copies:		Copies:		Sampled By:	AP

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 5; ☐ Res/Park ☐ Ind/Comm ☐ Agri/other; ☒ Med/Fine ☐ Course ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* (*min 3 day TAT) ☐ MISA ☐ PWQO ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): N/A

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Regular Turnaround Time (TAT): ☒ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply: ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

#	Sample Identification	YY	MM	DD	HH	MM	Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX/ F1	F2 - F4	VOCs	Reg 153 metals and inorganics	Reg 153 ICPMS metals	Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	Comments
1	5-BH223-2	22	04	01	15	00	Soil							X			1		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

12-May-22 16:00
Kudrat Bajwa
C2C9273
ASR ENV-652

LAB USE ONLY	Yes	No	°C	
Seal present	✓		1: 3	
Seal intact	✓		2: 5	
Cooling media present	✓		3: 4	

LAB USE ONLY	Yes	No	°C
Seal present			1
Seal intact			2
Cooling media present			3

LAB USE ONLY	Yes	No	°C
Seal present			1
Seal intact			2
Cooling media present			3

Temperature reading by:

	Relinquished by: (Signature/ Print)	YY	MM	DD	HH	MM	Received by: (Signature/ Print)	YY	MM	DD	HH	MM	Special instructions
1	Alex Parniak AP	2022	05	11	18	17	Preeup | Preeup [illegible]	2022	05	12	16	00	
2													

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/20
Report #: R7133096
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291833
Received: 2022/04/06, 16:10

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	5	2022/04/11	2022/04/11	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	3	2022/05/11	2022/05/12	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	1	N/A	2022/04/11		EPA 8260C m
Free (WAD) Cyanide	5	2022/04/11	2022/04/11	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	3	2022/05/12	2022/05/12	CAM SOP-00457	OMOE E3015 m
Conductivity	9	2022/04/11	2022/04/11	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	5	2022/04/08	2022/04/11	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2022/05/11	2022/05/12	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1)	2	2022/05/12	2022/05/13	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	4	N/A	2022/04/09	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2022/04/10	2022/04/11	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2022/04/08	2022/04/11	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/05/12	2022/05/13	CAM SOP-00447	EPA 6020B m
Moisture	5	N/A	2022/04/07	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	3	N/A	2022/05/10	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT	5	2022/04/11	2022/04/11	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	3	2022/05/12	2022/05/12	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	3	N/A	2022/04/22	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	9	N/A	2022/04/12	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/04/09	CAM SOP-00230	EPA 8260C m

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

Your Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/20
Report #: R7133096
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C291833
Received: 2022/04/06, 16:10

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.

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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Bureau Veritas Job #: C291833
Report Date: 2022/05/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHM749			SHM750			SHM751		
Sampling Date		2022/04/04 09:00			2022/04/04 10:00			2022/04/04 11:00		
COC Number		na			na			na		
	UNITS	5-BH221-1	RDL	QC Batch	5-BH221-2	RDL	QC Batch	5-MW222-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.46		7928085				1.1		7928085
Inorganics										
Conductivity	mS/cm	0.50	0.002	7933200				1.2	0.002	7933200
Moisture	%				22	1.0	7987134			
Available (CaCl2) pH	pH	7.81		7932932	7.82		7991294	7.57		7932932
WAD Cyanide (Free)	ug/g	<0.01	0.01	7932898	<0.01	0.01	7990633	<0.01	0.01	7932898
Chromium (VI)	ug/g	<0.18	0.18	7929566	<0.18	0.18	7992244	<0.18	0.18	7929566
Metals										
Hot Water Ext. Boron (B)	ug/g	0.090	0.050	7932870	0.078	0.050	7988391	0.089	0.050	7932870
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7929937	<0.20	0.20	7991207	<0.20	0.20	7929937
Acid Extractable Arsenic (As)	ug/g	4.9	1.0	7929937	6.9	1.0	7991207	6.0	1.0	7929937
Acid Extractable Barium (Ba)	ug/g	160	0.50	7929937	150	0.50	7991207	150	0.50	7929937
Acid Extractable Beryllium (Be)	ug/g	1.0	0.20	7929937	0.91	0.20	7991207	1.2	0.20	7929937
Acid Extractable Boron (B)	ug/g	6.2	5.0	7929937	8.6	5.0	7991207	<5.0	5.0	7929937
Acid Extractable Cadmium (Cd)	ug/g	0.17	0.10	7929937	<0.10	0.10	7991207	0.25	0.10	7929937
Acid Extractable Chromium (Cr)	ug/g	28	1.0	7929937	27	1.0	7991207	31	1.0	7929937
Acid Extractable Cobalt (Co)	ug/g	17	0.10	7929937	18	0.10	7991207	22	0.10	7929937
Acid Extractable Copper (Cu)	ug/g	28	0.50	7929937	27	0.50	7991207	22	0.50	7929937
Acid Extractable Lead (Pb)	ug/g	14	1.0	7929937	10	1.0	7991207	14	1.0	7929937
Acid Extractable Molybdenum (Mo)	ug/g	0.75	0.50	7929937	0.79	0.50	7991207	0.71	0.50	7929937
Acid Extractable Nickel (Ni)	ug/g	37	0.50	7929937	35	0.50	7991207	34	0.50	7929937
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7929937	<0.50	0.50	7991207	<0.50	0.50	7929937
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7929937	<0.20	0.20	7991207	<0.20	0.20	7929937
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7929937	0.14	0.050	7991207	0.15	0.050	7929937
Acid Extractable Uranium (U)	ug/g	0.54	0.050	7929937	0.66	0.050	7991207	1.1	0.050	7929937
Acid Extractable Vanadium (V)	ug/g	39	5.0	7929937	36	5.0	7991207	43	5.0	7929937
Acid Extractable Zinc (Zn)	ug/g	69	5.0	7929937	64	5.0	7991207	82	5.0	7929937
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7929937	<0.050	0.050	7991207	<0.050	0.050	7929937

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C291833
Report Date: 2022/05/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Sampler Initials: AP

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHM751			SHM752			SHM753		
Sampling Date		2022/04/04 11:00			2022/04/04 11:00			2022/04/04 10:00		
COC Number		na			na			na		
	UNITS	5-MW222-1 Lab-Dup	RDL	QC Batch	5-MW222-91	RDL	QC Batch	5-MW222-2	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A				1.3		7928085			
Inorganics										
Conductivity	mS/cm				1.8	0.002	7933200			
Moisture	%							20	1.0	7987134
Available (CaCl2) pH	pH				7.88		7932932	7.89		7991284
WAD Cyanide (Free)	ug/g				<0.01	0.01	7932898	<0.01	0.01	7990625
Chromium (VI)	ug/g				<0.18	0.18	7929566	<0.18	0.18	7989817
Metals										
Hot Water Ext. Boron (B)	ug/g	0.085	0.050	7932870	0.065	0.050	7932870	0.20	0.050	7988391
Acid Extractable Antimony (Sb)	ug/g				0.24	0.20	7929937	<0.20	0.20	7990822
Acid Extractable Arsenic (As)	ug/g				6.4	1.0	7929937	6.8	1.0	7990822
Acid Extractable Barium (Ba)	ug/g				190	0.50	7929937	76	0.50	7990822
Acid Extractable Beryllium (Be)	ug/g				1.2	0.20	7929937	0.74	0.20	7990822
Acid Extractable Boron (B)	ug/g				5.4	5.0	7929937	8.2	5.0	7990822
Acid Extractable Cadmium (Cd)	ug/g				0.18	0.10	7929937	<0.10	0.10	7990822
Acid Extractable Chromium (Cr)	ug/g				33	1.0	7929937	24	1.0	7990822
Acid Extractable Cobalt (Co)	ug/g				19	0.10	7929937	13	0.10	7990822
Acid Extractable Copper (Cu)	ug/g				29	0.50	7929937	27	0.50	7990822
Acid Extractable Lead (Pb)	ug/g				14	1.0	7929937	8.7	1.0	7990822
Acid Extractable Molybdenum (Mo)	ug/g				0.62	0.50	7929937	0.71	0.50	7990822
Acid Extractable Nickel (Ni)	ug/g				42	0.50	7929937	30	0.50	7990822
Acid Extractable Selenium (Se)	ug/g				<0.50	0.50	7929937	<0.50	0.50	7990822
Acid Extractable Silver (Ag)	ug/g				<0.20	0.20	7929937	<0.20	0.20	7990822
Acid Extractable Thallium (Tl)	ug/g				0.18	0.050	7929937	0.13	0.050	7990822
Acid Extractable Uranium (U)	ug/g				0.93	0.050	7929937	0.93	0.050	7990822
Acid Extractable Vanadium (V)	ug/g				43	5.0	7929937	34	5.0	7990822
Acid Extractable Zinc (Zn)	ug/g				84	5.0	7929937	62	5.0	7990822
Acid Extractable Mercury (Hg)	ug/g				0.052	0.050	7929937	<0.050	0.050	7990822

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHM755			SHM755			SHM757		
Sampling Date		2022/04/04 15:00			2022/04/04 15:00			2022/03/31 15:00		
COC Number		na			na			na		
	UNITS	5-BH223-1	RDL	QC Batch	5-BH223-1 Lab-Dup	RDL	QC Batch	5-MW220-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.80		7928085				0.35		7928085
Inorganics										
Conductivity	mS/cm	3.7	0.002	7933200				0.33	0.002	7933200
Moisture	%							23	1.0	7928652
Available (CaCl2) pH	pH	7.75		7932932				7.41		7932932
WAD Cyanide (Free)	ug/g	<0.01	0.01	7932898				<0.01	0.01	7932898
Chromium (VI)	ug/g	<0.18	0.18	7929566	<0.18	0.18	7929566	<0.18	0.18	7929566
Metals										
Hot Water Ext. Boron (B)	ug/g	0.086	0.050	7932870				0.10	0.050	7932870
Acid Extractable Antimony (Sb)	ug/g	0.23	0.20	7929937				0.20	0.20	7929937
Acid Extractable Arsenic (As)	ug/g	5.6	1.0	7929937				5.3	1.0	7929937
Acid Extractable Barium (Ba)	ug/g	110	0.50	7929937				160	0.50	7929937
Acid Extractable Beryllium (Be)	ug/g	0.91	0.20	7929937				1.3	0.20	7929937
Acid Extractable Boron (B)	ug/g	6.9	5.0	7929937				6.4	5.0	7929937
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	7929937				0.12	0.10	7929937
Acid Extractable Chromium (Cr)	ug/g	27	1.0	7929937				32	1.0	7929937
Acid Extractable Cobalt (Co)	ug/g	13	0.10	7929937				18	0.10	7929937
Acid Extractable Copper (Cu)	ug/g	25	0.50	7929937				28	0.50	7929937
Acid Extractable Lead (Pb)	ug/g	10	1.0	7929937				14	1.0	7929937
Acid Extractable Molybdenum (Mo)	ug/g	0.52	0.50	7929937				<0.50	0.50	7929937
Acid Extractable Nickel (Ni)	ug/g	30	0.50	7929937				39	0.50	7929937
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7929937				<0.50	0.50	7929937
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7929937				<0.20	0.20	7929937
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7929937				0.20	0.050	7929937
Acid Extractable Uranium (U)	ug/g	0.92	0.050	7929937				0.69	0.050	7929937
Acid Extractable Vanadium (V)	ug/g	35	5.0	7929937				43	5.0	7929937
Acid Extractable Zinc (Zn)	ug/g	67	5.0	7929937				77	5.0	7929937
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7929937				<0.050	0.050	7929937

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		SHM758		
Sampling Date		2022/03/31 15:30		
COC Number		na		
	UNITS	5-MW220-3	RDL	QC Batch
Inorganics				
Moisture	%	19	1.0	7987134
Available (CaCl2) pH	pH	7.86		7991284
WAD Cyanide (Free)	ug/g	<0.01	0.01	7990616
Chromium (VI)	ug/g	<0.18	0.18	7991036
Metals				
Hot Water Ext. Boron (B)	ug/g	0.28	0.050	7988391
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7990822
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	7990822
Acid Extractable Barium (Ba)	ug/g	130	0.50	7990822
Acid Extractable Beryllium (Be)	ug/g	0.69	0.20	7990822
Acid Extractable Boron (B)	ug/g	9.6	5.0	7990822
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.10	7990822
Acid Extractable Chromium (Cr)	ug/g	24	1.0	7990822
Acid Extractable Cobalt (Co)	ug/g	15	0.10	7990822
Acid Extractable Copper (Cu)	ug/g	27	0.50	7990822
Acid Extractable Lead (Pb)	ug/g	9.0	1.0	7990822
Acid Extractable Molybdenum (Mo)	ug/g	0.76	0.50	7990822
Acid Extractable Nickel (Ni)	ug/g	32	0.50	7990822
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7990822
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7990822
Acid Extractable Thallium (Tl)	ug/g	0.15	0.050	7990822
Acid Extractable Uranium (U)	ug/g	0.90	0.050	7990822
Acid Extractable Vanadium (V)	ug/g	32	5.0	7990822
Acid Extractable Zinc (Zn)	ug/g	58	5.0	7990822
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7990822

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SHM749	SHM751			SHM751			SHM752		
Sampling Date		2022/04/04 09:00	2022/04/04 11:00			2022/04/04 11:00			2022/04/04 11:00		
COC Number		na	na			na			na		
	UNITS	5-BH221-1	5-MW222-1	RDL	QC Batch	5-MW222-1 Lab-Dup	RDL	QC Batch	5-MW222-91	RDL	QC Batch
Inorganics											
Moisture	%	22	22	1.0	7928652	21	1.0	7928652	18	1.0	7928652
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	<0.020	0.020	7931297				<0.020	0.020	7931297
Toluene	ug/g	<0.020	<0.020	0.020	7931297				<0.020	0.020	7931297
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7931297				<0.020	0.020	7931297
o-Xylene	ug/g	<0.020	<0.020	0.020	7931297				<0.020	0.020	7931297
p+m-Xylene	ug/g	<0.040	<0.040	0.040	7931297				<0.040	0.040	7931297
Total Xylenes	ug/g	<0.040	<0.040	0.040	7931297				<0.040	0.040	7931297
F1 (C6-C10)	ug/g	<10	<10	10	7931297				<10	10	7931297
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7931297				<10	10	7931297
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7932486				<10	10	7932486
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7932486				<50	50	7932486
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7932486				<50	50	7932486
Reached Baseline at C50	ug/g	Yes	Yes		7932486				Yes		7932486
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	103	106		7931297				103		7931297
4-Bromofluorobenzene	%	98	97		7931297				96		7931297
D10-o-Xylene	%	106	110		7931297				106		7931297
D4-1,2-Dichloroethane	%	106	101		7931297				104		7931297
o-Terphenyl	%	96	95		7932486				95		7932486

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		SHM755		
Sampling Date		2022/04/04 15:00		
COC Number		na		
	UNITS	5-BH223-1	RDL	QC Batch
Inorganics				
Moisture	%	22	1.0	7928652
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	7931297
Toluene	ug/g	<0.020	0.020	7931297
Ethylbenzene	ug/g	<0.020	0.020	7931297
o-Xylene	ug/g	<0.020	0.020	7931297
p+m-Xylene	ug/g	<0.040	0.040	7931297
Total Xylenes	ug/g	<0.040	0.040	7931297
F1 (C6-C10)	ug/g	<10	10	7931297
F1 (C6-C10) - BTEX	ug/g	<10	10	7931297
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7932486
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7932486
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7932486
Reached Baseline at C50	ug/g	Yes		7932486
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		7931297
4-Bromofluorobenzene	%	94		7931297
D10-o-Xylene	%	124		7931297
D4-1,2-Dichloroethane	%	103		7931297
o-Terphenyl	%	95		7932486

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHM757		
Sampling Date		2022/03/31 15:00		
COC Number		na		
	UNITS	5-MW220-1	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7927769
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.49	0.49	7929697
Benzene	ug/g	<0.0060	0.0060	7929697
Bromodichloromethane	ug/g	<0.040	0.040	7929697
Bromoform	ug/g	<0.040	0.040	7929697
Bromomethane	ug/g	<0.040	0.040	7929697
Carbon Tetrachloride	ug/g	<0.040	0.040	7929697
Chlorobenzene	ug/g	<0.040	0.040	7929697
Chloroform	ug/g	<0.040	0.040	7929697
Dibromochloromethane	ug/g	<0.040	0.040	7929697
1,2-Dichlorobenzene	ug/g	<0.040	0.040	7929697
1,3-Dichlorobenzene	ug/g	<0.040	0.040	7929697
1,4-Dichlorobenzene	ug/g	<0.040	0.040	7929697
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	7929697
1,1-Dichloroethane	ug/g	<0.040	0.040	7929697
1,2-Dichloroethane	ug/g	<0.049	0.049	7929697
1,1-Dichloroethylene	ug/g	<0.040	0.040	7929697
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	7929697
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	7929697
1,2-Dichloropropane	ug/g	<0.040	0.040	7929697
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7929697
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7929697
Ethylbenzene	ug/g	<0.010	0.010	7929697
Ethylene Dibromide	ug/g	<0.040	0.040	7929697
Hexane	ug/g	<0.040	0.040	7929697
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	7929697
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	7929697
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	7929697
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	7929697
Styrene	ug/g	<0.040	0.040	7929697

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHM757		
Sampling Date		2022/03/31 15:00		
COC Number		na		
	UNITS	5-MW220-1	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	7929697
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	7929697
Tetrachloroethylene	ug/g	<0.040	0.040	7929697
Toluene	ug/g	<0.020	0.020	7929697
1,1,1-Trichloroethane	ug/g	<0.040	0.040	7929697
1,1,2-Trichloroethane	ug/g	<0.040	0.040	7929697
Trichloroethylene	ug/g	<0.010	0.010	7929697
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	7929697
Vinyl Chloride	ug/g	<0.019	0.019	7929697
p+m-Xylene	ug/g	<0.020	0.020	7929697
o-Xylene	ug/g	<0.020	0.020	7929697
Total Xylenes	ug/g	<0.020	0.020	7929697
F1 (C6-C10)	ug/g	<10	10	7929697
F1 (C6-C10) - BTEX	ug/g	<10	10	7929697
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7932486
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7932486
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7932486
Reached Baseline at C50	ug/g	Yes		7932486
Surrogate Recovery (%)				
o-Terphenyl	%	95		7932486
4-Bromofluorobenzene	%	96		7929697
D10-o-Xylene	%	93		7929697
D4-1,2-Dichloroethane	%	117		7929697
D8-Toluene	%	91		7929697

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C291833
Report Date: 2022/05/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Sampler Initials: AP

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHM750	SHM753			SHM754			SHM756		
Sampling Date		2022/04/04 10:00	2022/04/04 10:00			2022/04/04 13:00			2022/04/04 16:00		
COC Number		na	na			na			na		
	UNITS	5-BH221-2	5-MW222-2	RDL	QC Batch	5-MW222-3	RDL	QC Batch	5-BH223-2	RDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.33	0.94		7928085				0.79		7928085
Inorganics											
Conductivity	mS/cm	0.44	0.88	0.002	7933200				1.6	0.002	7933200
Miscellaneous Parameters											
Grain Size	%					FINE	N/A	7952276	FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%					98	1	7952276	100	1	7952276
Sieve - #200 (>0.075mm)	%					2	1	7952276	<1	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SHM756		SHM758			SHM759		
Sampling Date		2022/04/04 16:00		2022/03/31 15:30			2022/03/31 16:00		
COC Number		na		na			na		
	UNITS	5-BH223-2 Lab-Dup	QC Batch	5-MW220-3	RDL	QC Batch	5-MW220-5	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A			0.34		7928085			
Inorganics									
Conductivity	mS/cm	1.6	7933200	0.74	0.002	7933200			
Miscellaneous Parameters									
Grain Size	%						FINE	N/A	7952276
Sieve - #200 (<0.075mm)	%						98	1	7952276
Sieve - #200 (>0.075mm)	%						2	1	7952276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: SHM749
Sample ID: 5-BH221-1
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7932898	2022/04/11	2022/04/11	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7931297	N/A	2022/04/09	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7932486	2022/04/10	2022/04/11	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7929937	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932932	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM750
Sample ID: 5-BH221-2
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7988391	2022/05/11	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7990633	2022/05/12	2022/05/12	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7992244	2022/05/12	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7991207	2022/05/12	2022/05/13	Azita Fazaeli
Moisture	BAL	7987134	N/A	2022/05/10	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7991294	2022/05/12	2022/05/12	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM751
Sample ID: 5-MW222-1
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7932898	2022/04/11	2022/04/11	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7931297	N/A	2022/04/09	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7932486	2022/04/10	2022/04/11	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7929937	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932932	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

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Bureau Veritas Job #: C291833
Report Date: 2022/05/20

Terrapex Environmental Ltd
Client Project #: CT3243.01
Site Location: GRAND NIAGARA GOLF RSC 5
Sampler Initials: AP

TEST SUMMARY

Bureau Veritas ID: SHM751 Dup
Sample ID: 5-MW222-1
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles

Bureau Veritas ID: SHM752
Sample ID: 5-MW222-91
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7932898	2022/04/11	2022/04/11	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7931297	N/A	2022/04/09	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7932486	2022/04/10	2022/04/11	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7929937	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932932	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM753
Sample ID: 5-MW222-2
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7988391	2022/05/11	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7990625	2022/05/12	2022/05/12	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7989817	2022/05/11	2022/05/12	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990822	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7987134	N/A	2022/05/10	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7991284	2022/05/12	2022/05/12	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM754
Sample ID: 5-MW222-3
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

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TEST SUMMARY

Bureau Veritas ID: SHM755 **Collected:** 2022/04/04
Sample ID: 5-BH223-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
Free (WAD) Cyanide	TECH	7932898	2022/04/11	2022/04/11	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7931297	N/A	2022/04/09	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7932486	2022/04/10	2022/04/11	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7929937	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932932	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM755 Dup **Collected:** 2022/04/04
Sample ID: 5-BH223-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila

Bureau Veritas ID: SHM756 **Collected:** 2022/04/04
Sample ID: 5-BH223-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM756 Dup **Collected:** 2022/04/04
Sample ID: 5-BH223-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran

Bureau Veritas ID: SHM757 **Collected:** 2022/03/31
Sample ID: 5-MW220-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7932870	2022/04/11	2022/04/11	Gagandeep Rai
1,3-Dichloropropene Sum	CALC	7927769	N/A	2022/04/11	Automated Statchk
Free (WAD) Cyanide	TECH	7932898	2022/04/11	2022/04/11	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7929566	2022/04/08	2022/04/11	Violeta Porcila
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7932486	2022/04/10	2022/04/11	Jeevaraj Jeevaratrnam

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TEST SUMMARY

Bureau Veritas ID: SHM757 **Collected:** 2022/03/31
Sample ID: 5-MW220-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7929937	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7928652	N/A	2022/04/07	Mathew Bowles
pH CaCl2 EXTRACT	AT	7932932	2022/04/11	2022/04/11	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7929697	N/A	2022/04/09	Ancheol Jeong

Bureau Veritas ID: SHM758 **Collected:** 2022/03/31
Sample ID: 5-MW220-3 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	7988391	2022/05/11	2022/05/12	Medhat Nasr
Free (WAD) Cyanide	TECH	7990616	2022/05/12	2022/05/12	Nimarta Singh
Conductivity	AT	7933200	2022/04/11	2022/04/11	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	7991036	2022/05/12	2022/05/13	Violeta Porcila
Acid Extractable Metals by ICPMS	ICP/MS	7990822	2022/05/12	2022/05/13	Daniel Teclu
Moisture	BAL	7987134	N/A	2022/05/10	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7991284	2022/05/12	2022/05/12	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	7928085	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHM759 **Collected:** 2022/03/31
Sample ID: 5-MW220-5 **Shipped:**
Matrix: Soil **Received:** 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7952276	N/A	2022/04/22	Kruti Jitesh Patel

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GENERAL COMMENTS

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

Package 1	4.0°C

Revised Report[2022/05/20]: Report re-issued to include additional analysis, as per request.

Revised Report [2022/04/27]: Requested additional analysis for grain size +/- 75um added to samples 5-BH223-2, 5-MW220-5 and 5-MW222-3 as per client.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7929697	4-Bromofluorobenzene	2022/04/09	103	60 - 140	103	60 - 140	95	%				
7929697	D10-o-Xylene	2022/04/09	99	60 - 130	102	60 - 130	85	%				
7929697	D4-1,2-Dichloroethane	2022/04/09	111	60 - 140	104	60 - 140	111	%				
7929697	D8-Toluene	2022/04/09	101	60 - 140	100	60 - 140	93	%				
7931297	1,4-Difluorobenzene	2022/04/08	98	60 - 140	101	60 - 140	104	%				
7931297	4-Bromofluorobenzene	2022/04/08	102	60 - 140	103	60 - 140	99	%				
7931297	D10-o-Xylene	2022/04/08	119	60 - 140	97	60 - 140	107	%				
7931297	D4-1,2-Dichloroethane	2022/04/08	100	60 - 140	106	60 - 140	104	%				
7932486	o-Terphenyl	2022/04/11	93	60 - 130	93	60 - 130	97	%				
7928652	Moisture	2022/04/07							1.9	20		
7929566	Chromium (VI)	2022/04/11	63 (1)	70 - 130	85	80 - 120	<0.18	ug/g	NC	35		
7929697	1,1,1,2-Tetrachloroethane	2022/04/09	105	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7929697	1,1,1-Trichloroethane	2022/04/09	97	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7929697	1,1,2,2-Tetrachloroethane	2022/04/09	110	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7929697	1,1,2-Trichloroethane	2022/04/09	110	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7929697	1,1-Dichloroethane	2022/04/09	98	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7929697	1,1-Dichloroethylene	2022/04/09	96	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
7929697	1,2-Dichlorobenzene	2022/04/09	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50		
7929697	1,2-Dichloroethane	2022/04/09	105	60 - 140	100	60 - 130	<0.049	ug/g	NC	50		
7929697	1,2-Dichloropropane	2022/04/09	104	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7929697	1,3-Dichlorobenzene	2022/04/09	93	60 - 140	94	60 - 130	<0.040	ug/g	NC	50		
7929697	1,4-Dichlorobenzene	2022/04/09	109	60 - 140	111	60 - 130	<0.040	ug/g	NC	50		
7929697	Acetone (2-Propanone)	2022/04/09	113	60 - 140	103	60 - 140	<0.49	ug/g	NC	50		
7929697	Benzene	2022/04/09	95	60 - 140	95	60 - 130	<0.0060	ug/g	NC	50		
7929697	Bromodichloromethane	2022/04/09	108	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
7929697	Bromoform	2022/04/09	112	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
7929697	Bromomethane	2022/04/09	108	60 - 140	111	60 - 140	<0.040	ug/g	NC	50		
7929697	Carbon Tetrachloride	2022/04/09	94	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7929697	Chlorobenzene	2022/04/09	100	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7929697	Chloroform	2022/04/09	100	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7929697	cis-1,2-Dichloroethylene	2022/04/09	123	60 - 140	123	60 - 130	<0.040	ug/g	NC	50		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7929697	cis-1,3-Dichloropropene	2022/04/09	97	60 - 140	99	60 - 130	<0.030	ug/g	NC	50		
7929697	Dibromochloromethane	2022/04/09	107	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7929697	Dichlorodifluoromethane (FREON 12)	2022/04/09	100	60 - 140	104	60 - 140	<0.040	ug/g	NC	50		
7929697	Ethylbenzene	2022/04/09	89	60 - 140	90	60 - 130	<0.010	ug/g	NC	50		
7929697	Ethylene Dibromide	2022/04/09	108	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
7929697	F1 (C6-C10) - BTEX	2022/04/09					<10	ug/g	NC	30		
7929697	F1 (C6-C10)	2022/04/09	92	60 - 140	90	80 - 120	<10	ug/g	NC	30		
7929697	Hexane	2022/04/09	96	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
7929697	Methyl Ethyl Ketone (2-Butanone)	2022/04/09	134	60 - 140	119	60 - 140	<0.40	ug/g	NC	50		
7929697	Methyl Isobutyl Ketone	2022/04/09	135	60 - 140	116	60 - 130	<0.40	ug/g	NC	50		
7929697	Methyl t-butyl ether (MTBE)	2022/04/09	104	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
7929697	Methylene Chloride(Dichloromethane)	2022/04/09	103	60 - 140	101	60 - 130	<0.049	ug/g	NC	50		
7929697	o-Xylene	2022/04/09	93	60 - 140	93	60 - 130	<0.020	ug/g	NC	50		
7929697	p+m-Xylene	2022/04/09	95	60 - 140	96	60 - 130	<0.020	ug/g	NC	50		
7929697	Styrene	2022/04/09	109	60 - 140	108	60 - 130	<0.040	ug/g	NC	50		
7929697	Tetrachloroethylene	2022/04/09	83	60 - 140	87	60 - 130	<0.040	ug/g	NC	50		
7929697	Toluene	2022/04/09	92	60 - 140	93	60 - 130	<0.020	ug/g	NC	50		
7929697	Total Xylenes	2022/04/09					<0.020	ug/g	NC	50		
7929697	trans-1,2-Dichloroethylene	2022/04/09	95	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
7929697	trans-1,3-Dichloropropene	2022/04/09	104	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
7929697	Trichloroethylene	2022/04/09	99	60 - 140	102	60 - 130	<0.010	ug/g	NC	50		
7929697	Trichlorofluoromethane (FREON 11)	2022/04/09	103	60 - 140	107	60 - 130	<0.040	ug/g	NC	50		
7929697	Vinyl Chloride	2022/04/09	104	60 - 140	108	60 - 130	<0.019	ug/g	NC	50		
7929937	Acid Extractable Antimony (Sb)	2022/04/11	100	75 - 125	103	80 - 120	<0.20	ug/g	NC	30		
7929937	Acid Extractable Arsenic (As)	2022/04/11	99	75 - 125	104	80 - 120	<1.0	ug/g	2.7	30		
7929937	Acid Extractable Barium (Ba)	2022/04/11	98	75 - 125	101	80 - 120	<0.50	ug/g	3.5	30		
7929937	Acid Extractable Beryllium (Be)	2022/04/11	101	75 - 125	103	80 - 120	<0.20	ug/g	NC	30		
7929937	Acid Extractable Boron (B)	2022/04/11	95	75 - 125	102	80 - 120	<5.0	ug/g	NC	30		
7929937	Acid Extractable Cadmium (Cd)	2022/04/11	98	75 - 125	100	80 - 120	<0.10	ug/g	NC	30		
7929937	Acid Extractable Chromium (Cr)	2022/04/11	97	75 - 125	101	80 - 120	<1.0	ug/g	12	30		
7929937	Acid Extractable Cobalt (Co)	2022/04/11	99	75 - 125	102	80 - 120	<0.10	ug/g	1.9	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7929937	Acid Extractable Copper (Cu)	2022/04/11	94	75 - 125	100	80 - 120	<0.50	ug/g	3.5	30		
7929937	Acid Extractable Lead (Pb)	2022/04/11	100	75 - 125	107	80 - 120	<1.0	ug/g	0.38	30		
7929937	Acid Extractable Mercury (Hg)	2022/04/11	83	75 - 125	89	80 - 120	<0.050	ug/g	NC	30		
7929937	Acid Extractable Molybdenum (Mo)	2022/04/11	100	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
7929937	Acid Extractable Nickel (Ni)	2022/04/11	99	75 - 125	103	80 - 120	<0.50	ug/g	5.6	30		
7929937	Acid Extractable Selenium (Se)	2022/04/11	99	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7929937	Acid Extractable Silver (Ag)	2022/04/11	100	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7929937	Acid Extractable Thallium (Tl)	2022/04/11	102	75 - 125	108	80 - 120	<0.050	ug/g	NC	30		
7929937	Acid Extractable Uranium (U)	2022/04/11	102	75 - 125	106	80 - 120	<0.050	ug/g	4.4	30		
7929937	Acid Extractable Vanadium (V)	2022/04/11	93	75 - 125	101	80 - 120	<5.0	ug/g	21	30		
7929937	Acid Extractable Zinc (Zn)	2022/04/11	97	75 - 125	97	80 - 120	<5.0	ug/g	5.9	30		
7931297	Benzene	2022/04/08	113	50 - 140	111	50 - 140	<0.020	ug/g	NC	50		
7931297	Ethylbenzene	2022/04/08	125	50 - 140	113	50 - 140	<0.020	ug/g	NC	50		
7931297	F1 (C6-C10) - BTEX	2022/04/08					<10	ug/g	NC	30		
7931297	F1 (C6-C10)	2022/04/08	102	60 - 140	85	80 - 120	<10	ug/g	NC	30		
7931297	o-Xylene	2022/04/08	121	50 - 140	106	50 - 140	<0.020	ug/g	NC	50		
7931297	p+m-Xylene	2022/04/08	119	50 - 140	104	50 - 140	<0.040	ug/g	NC	50		
7931297	Toluene	2022/04/08	106	50 - 140	97	50 - 140	<0.020	ug/g	NC	50		
7931297	Total Xylenes	2022/04/08					<0.040	ug/g	NC	50		
7932486	F2 (C10-C16 Hydrocarbons)	2022/04/11	99	60 - 130	98	80 - 120	<10	ug/g	NC	30		
7932486	F3 (C16-C34 Hydrocarbons)	2022/04/11	99	60 - 130	99	80 - 120	<50	ug/g	NC	30		
7932486	F4 (C34-C50 Hydrocarbons)	2022/04/11	102	60 - 130	102	80 - 120	<50	ug/g	NC	30		
7932870	Hot Water Ext. Boron (B)	2022/04/11	110	75 - 125	100	75 - 125	<0.050	ug/g	4.6	40		
7932898	WAD Cyanide (Free)	2022/04/11	98	75 - 125	100	80 - 120	<0.01	ug/g	NC	35		
7932932	Available (CaCl2) pH	2022/04/11			101	97 - 103			0.051	N/A		
7933200	Conductivity	2022/04/11			101	90 - 110	<0.002	mS/cm	4.6	10		
7952276	Sieve - #200 (<0.075mm)	2022/04/22							0.22	20	57	53 - 58
7952276	Sieve - #200 (>0.075mm)	2022/04/22							16	20	43	42 - 47
7987134	Moisture	2022/05/10							1.1	20		
7988391	Hot Water Ext. Boron (B)	2022/05/12	117	75 - 125	99	75 - 125	<0.050	ug/g	12	40		
7989817	Chromium (VI)	2022/05/12	89	70 - 130	96	80 - 120	<0.18	ug/g	NC	35		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7990616	WAD Cyanide (Free)	2022/05/12	91	75 - 125	96	80 - 120	<0.01	ug/g	NC	35		
7990625	WAD Cyanide (Free)	2022/05/12	86	75 - 125	96	80 - 120	<0.01	ug/g	NC	35		
7990633	WAD Cyanide (Free)	2022/05/12	96	75 - 125	97	80 - 120	<0.01	ug/g	NC	35		
7990822	Acid Extractable Antimony (Sb)	2022/05/13	100	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Arsenic (As)	2022/05/13	105	75 - 125	102	80 - 120	<1.0	ug/g	NC	30		
7990822	Acid Extractable Barium (Ba)	2022/05/13	104	75 - 125	98	80 - 120	<0.50	ug/g	0.98	30		
7990822	Acid Extractable Beryllium (Be)	2022/05/13	106	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Boron (B)	2022/05/13	102	75 - 125	97	80 - 120	<5.0	ug/g	NC	30		
7990822	Acid Extractable Cadmium (Cd)	2022/05/13	104	75 - 125	98	80 - 120	<0.10	ug/g	NC	30		
7990822	Acid Extractable Chromium (Cr)	2022/05/13	111	75 - 125	105	80 - 120	<1.0	ug/g	0.33	30		
7990822	Acid Extractable Cobalt (Co)	2022/05/13	106	75 - 125	103	80 - 120	<0.10	ug/g	3.9	30		
7990822	Acid Extractable Copper (Cu)	2022/05/13	101	75 - 125	100	80 - 120	<0.50	ug/g	2.6	30		
7990822	Acid Extractable Lead (Pb)	2022/05/13	105	75 - 125	104	80 - 120	<1.0	ug/g	3.0	30		
7990822	Acid Extractable Mercury (Hg)	2022/05/13	88	75 - 125	89	80 - 120	<0.050	ug/g				
7990822	Acid Extractable Molybdenum (Mo)	2022/05/13	104	75 - 125	102	80 - 120	<0.50	ug/g	NC	30		
7990822	Acid Extractable Nickel (Ni)	2022/05/13	105	75 - 125	104	80 - 120	<0.50	ug/g	11	30		
7990822	Acid Extractable Selenium (Se)	2022/05/13	108	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
7990822	Acid Extractable Silver (Ag)	2022/05/13	105	75 - 125	103	80 - 120	<0.20	ug/g	NC	30		
7990822	Acid Extractable Thallium (Tl)	2022/05/13	105	75 - 125	105	80 - 120	<0.050	ug/g	NC	30		
7990822	Acid Extractable Uranium (U)	2022/05/13	105	75 - 125	106	80 - 120	<0.050	ug/g	3.3	30		
7990822	Acid Extractable Vanadium (V)	2022/05/13	112	75 - 125	103	80 - 120	<5.0	ug/g	6.9	30		
7990822	Acid Extractable Zinc (Zn)	2022/05/13	98	75 - 125	101	80 - 120	<5.0	ug/g	8.4	30		
7991036	Chromium (VI)	2022/05/13	1.0 (2)	70 - 130	92	80 - 120	<0.18	ug/g	NC	35		
7991207	Acid Extractable Antimony (Sb)	2022/05/13	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30		
7991207	Acid Extractable Arsenic (As)	2022/05/13	106	75 - 125	103	80 - 120	<1.0	ug/g	4.3	30		
7991207	Acid Extractable Barium (Ba)	2022/05/13	NC	75 - 125	100	80 - 120	<0.50	ug/g	3.1	30		
7991207	Acid Extractable Beryllium (Be)	2022/05/13	109	75 - 125	104	80 - 120	<0.20	ug/g	8.6	30		
7991207	Acid Extractable Boron (B)	2022/05/13	98	75 - 125	101	80 - 120	<5.0	ug/g	NC	30		
7991207	Acid Extractable Cadmium (Cd)	2022/05/13	104	75 - 125	97	80 - 120	<0.10	ug/g	24	30		
7991207	Acid Extractable Chromium (Cr)	2022/05/13	110	75 - 125	101	80 - 120	<1.0	ug/g	1.5	30		
7991207	Acid Extractable Cobalt (Co)	2022/05/13	108	75 - 125	101	80 - 120	<0.10	ug/g	4.9	30		

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

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7991207	Acid Extractable Copper (Cu)	2022/05/13	107	75 - 125	100	80 - 120	<0.50	ug/g	2.1	30		
7991207	Acid Extractable Lead (Pb)	2022/05/13	102	75 - 125	96	80 - 120	<1.0	ug/g	2.5	30		
7991207	Acid Extractable Mercury (Hg)	2022/05/13	91	75 - 125	83	80 - 120	<0.050	ug/g				
7991207	Acid Extractable Molybdenum (Mo)	2022/05/13	108	75 - 125	100	80 - 120	<0.50	ug/g	7.6	30		
7991207	Acid Extractable Nickel (Ni)	2022/05/13	108	75 - 125	99	80 - 120	<0.50	ug/g	2.8	30		
7991207	Acid Extractable Selenium (Se)	2022/05/13	107	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
7991207	Acid Extractable Silver (Ag)	2022/05/13	106	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
7991207	Acid Extractable Thallium (Tl)	2022/05/13	103	75 - 125	96	80 - 120	<0.050	ug/g	14	30		
7991207	Acid Extractable Uranium (U)	2022/05/13	110	75 - 125	103	80 - 120	<0.050	ug/g	1.3	30		
7991207	Acid Extractable Vanadium (V)	2022/05/13	NC	75 - 125	101	80 - 120	<5.0	ug/g	6.4	30		
7991207	Acid Extractable Zinc (Zn)	2022/05/13	NC	75 - 125	93	80 - 120	<5.0	ug/g	4.6	30		
7991284	Available (CaCl2) pH	2022/05/12			101	97 - 103			1.3	N/A		
7991294	Available (CaCl2) pH	2022/05/12			101	97 - 103			1.1	N/A		
7992244	Chromium (VI)	2022/05/13	85	70 - 130	95	80 - 120	<0.18	ug/g	3.4	35		

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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) 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.

(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 sample was re-analyzed with the same results

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

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 Signature Page.

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

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

CHA

06-Apr-22 16:10
Kudrat Bajwa
C291833
J L ENV-1673

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	~~#30085 Parkland Fuel Corporation~~ TERRAPEX ENVIRONMENTAL	Company Name:	#27399 Terrapex Environmental Ltd	Quotation #:	~~B93691~~ C21481
Attention:	~~Sadiq Mohammed~~ ACCOUNTS PAYABLE	Attention:	~~Geoff Lussier~~ Roy Yeh	P.O. #:	~~5212551-OS~~
Address:	~~1800, 240-4th Ave SW~~ 10 SCARSDALE ROAD	Address:	~~55 Nebo Road~~	Project:	~~GB1130.02~~ CT3243.01
	~~Calgary AB T2P 4H4~~ T.O. M3B 2R2		~~Hamilton ON L8W 2C9~~	Project Name:	GRAND NIAGARA GOLF
Tel:	~~(403) 567-2500~~ Fax: (587) 230-3949	Tel:	~~(906) 632-5939~~ 416 245-0011 Fax:	Site #:	~~BU42302 (005)~~ RSC 5
Email:	~~kristen.burmeister@bvlabs.com~~	Email:	~~g.lussier@terrapex.com~~ r.yu@terrapex.com	Sampled By:	A.P.

e Order #: 855769
COC #: C#855769-10-01
Project Manager: Kudrat Bajwa

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): ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☒ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; BTEX/PHCS F1-F4; METALS AND INORGANICS; EC/SAR

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
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.
Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ *(call lab for #)*

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	BTEX/PHCS F1-F4	METALS AND INORGANICS	EC/SAR	# of Bottles	Comments
1	√	5-BH221-1	APRIL/22	9AM	SOIL	N	X	X		4	
2	√	5-BH221-2	↓	10AM	SOIL				X	2	
3	√	5-MW222-1		11AM			X	X		4	
4	√	5-MW222-91		11AM			X	X		4	
5	√	5-MW222-2		12 PM					X	2	
6	√	5-MW222-3		1 PM						4	ON HOLD.
7	√	5-BH223-1		3 PM			X	X		4	
8	√	5-BH223-2	↓	4 PM	↓	↓			X	2	2 x 120 mL
9	√	5-BH223-2	↓	4PM						4	2 x 120 mL + 2 x 40 mL ON HOLD
10											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Raymond Aman	22/04/05	8PM	Pheblyat	22/04/06	16:10	

Time Sensitive

Laboratory Use Only
Temperature (°C) on Recei: 5/4/3
Custody Seal: Present Yes –; Intact Yes –

White: Bureau Veritas Yellow: Client

* 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.BVLABS.COM/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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Bureau Veritas Canada (2019) Inc.

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

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#4398 Terrapex Environmental Ltd~~ TERRAPEX ENVIRON	Company Name: ~~#6830~~ Terrapex Environmental Ltd	Quotation #: ~~C01024~~ C21481	BV Labs Job #:
Attention: Accounts Payable ROY YU	Attention: ~~Siratha Chhan~~ Roy Yu	P.O. #:	Bottle Order #: 839059
Address: ~~90 Scarsdale Rd~~ 90 SCARSDALE RD	Address: ~~65 Nebo Road~~	Project: ~~CT2802-02~~ CT3243.01	
Toronto ON M3B 2R7	~~Hamilton ON L8W 2C9~~	Project Name: GRAND NIAGARA GOLF	COC #: C#839059-02-01
Tel: (416) 245-0011 Fax: (416) 245-0012	Tel: (905) 632-5939 Ext: 263 Fax: ~~(905) 632-6793~~	Site #: RSC	Project Manager: Ema Gitej
Email: accounts.payable@terrapex.com	Email: ~~S.Chhan@terrapex.com~~ r.yu@terrapex.com	Sampled By: A.P.	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☒ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☒ For RSC
- ☒ Table 5

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality
- ☐ PWQO ☐ Reg 406 Table
- ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O.Reg 153 VOCs by HS & F1-F4	METALS AND INORGANICS	IEC/SAR	# of Bottles	Comments
1		5-MW220-1	MAR 31/22	3PM	SOIL	X	X		4	
2		5-MW220-3	↓	3:30PM	↓			X	2	
3		5-MW220-5	↓	4PM	↓				4	ON HOLD
4										
5										
6										
7										
8										
9										
10										

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Raymond Ajmeri	22/04/05	8PM				0

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/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.

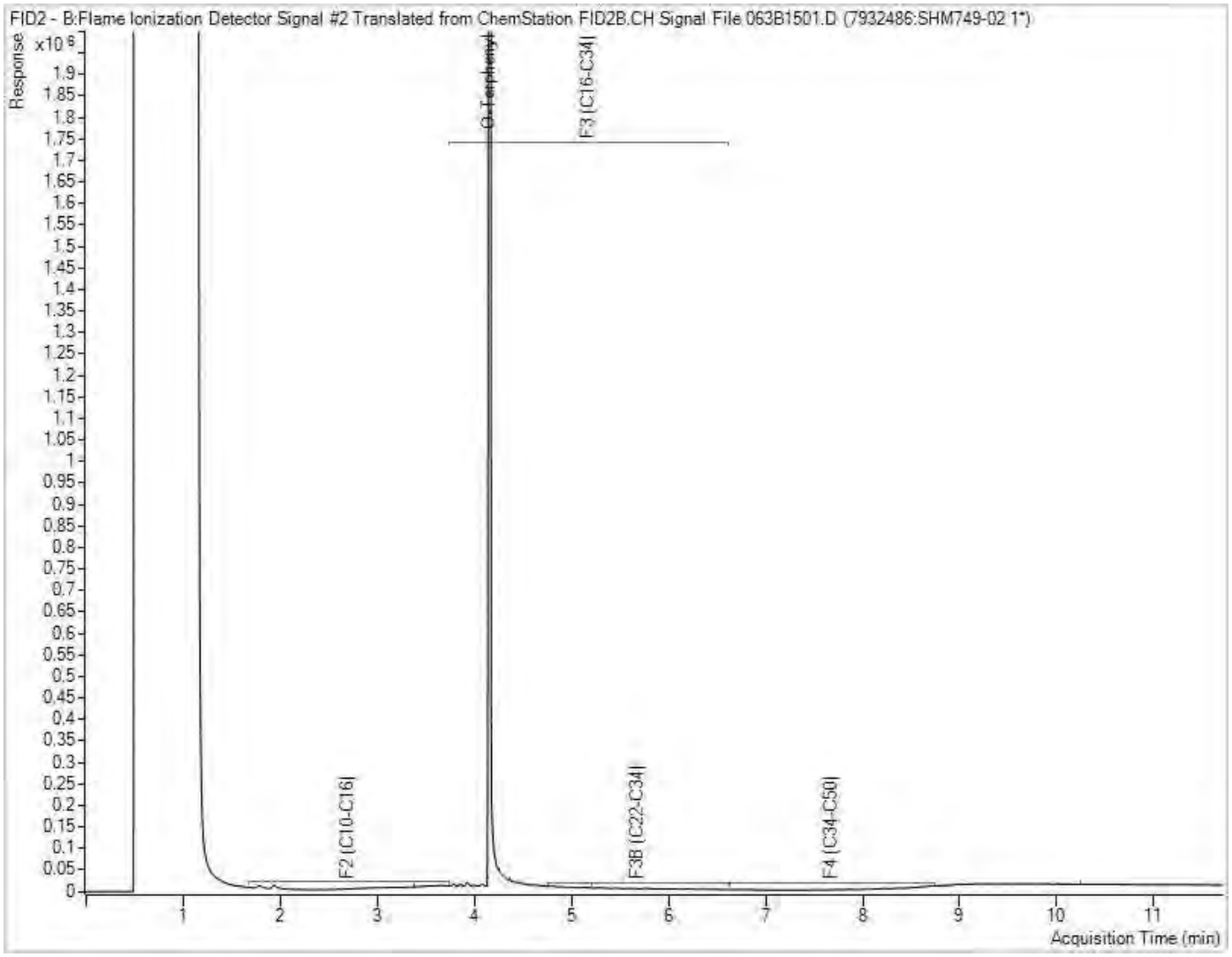
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

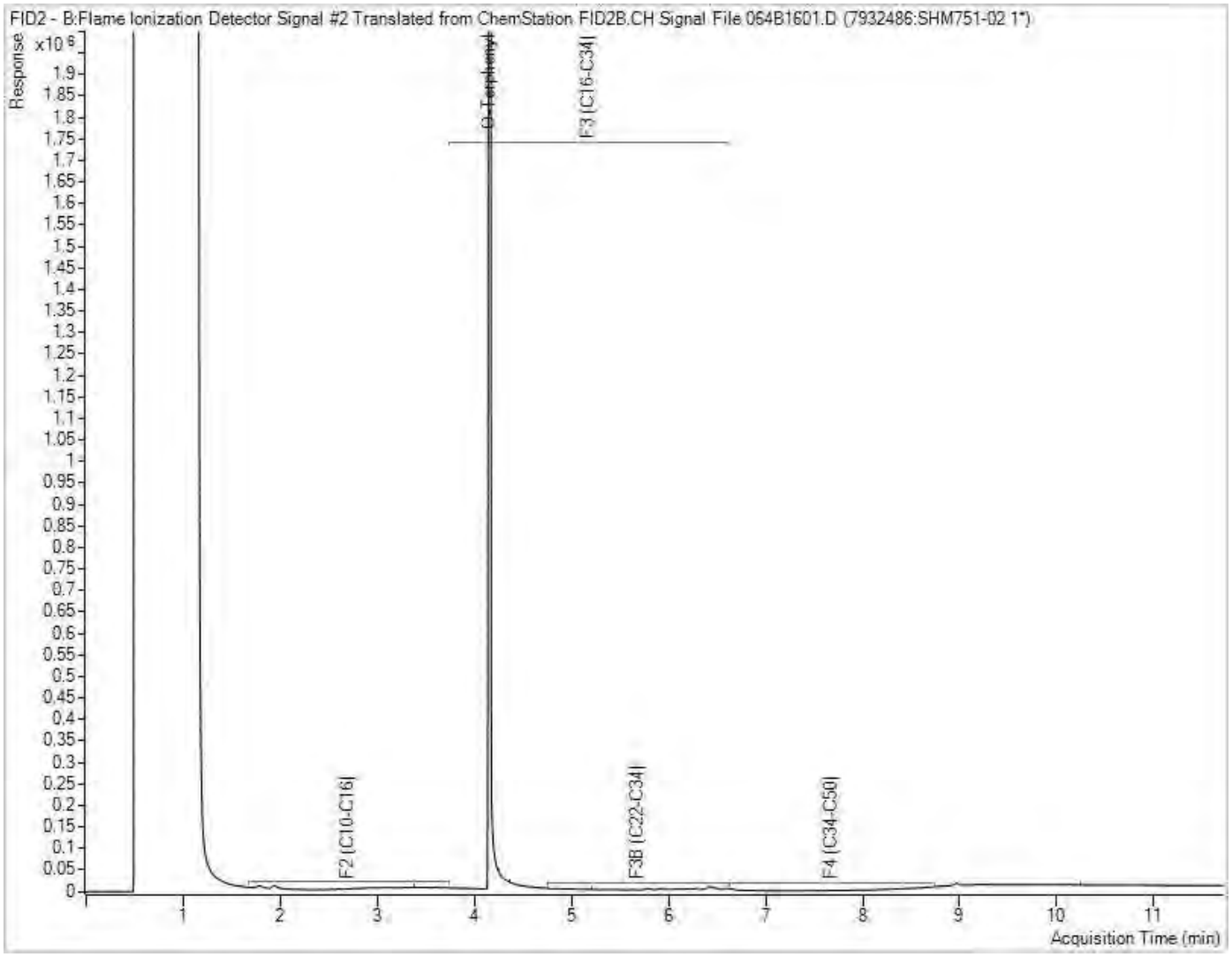


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C291833
Report Date: 2022/05/20
Bureau Veritas Sample: SHM751

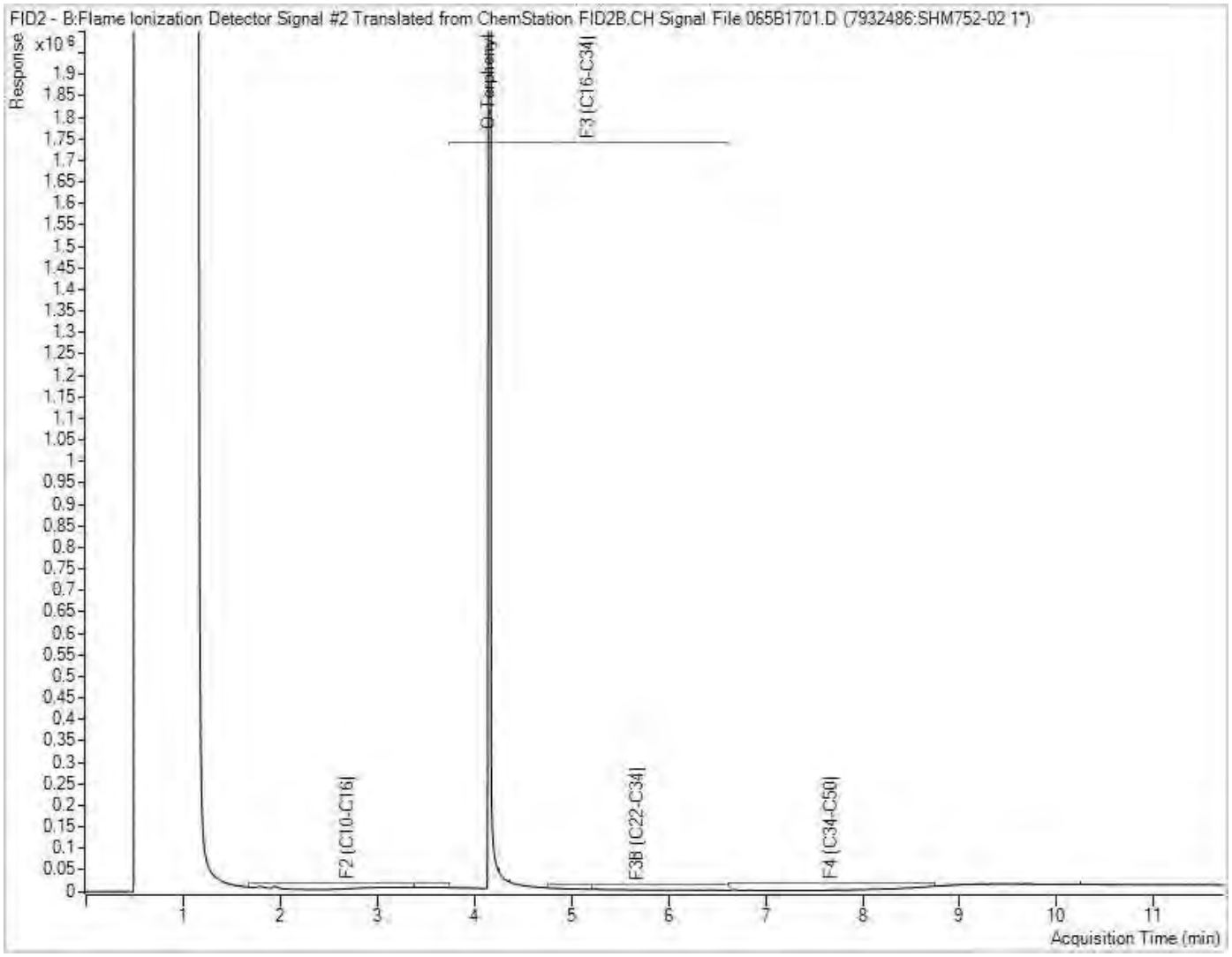
Terrapex Environmental Ltd
Client Project #: CT3243.01
Project name: GRAND NIAGARA GOLF RSC 5
Client ID: 5-MW222-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



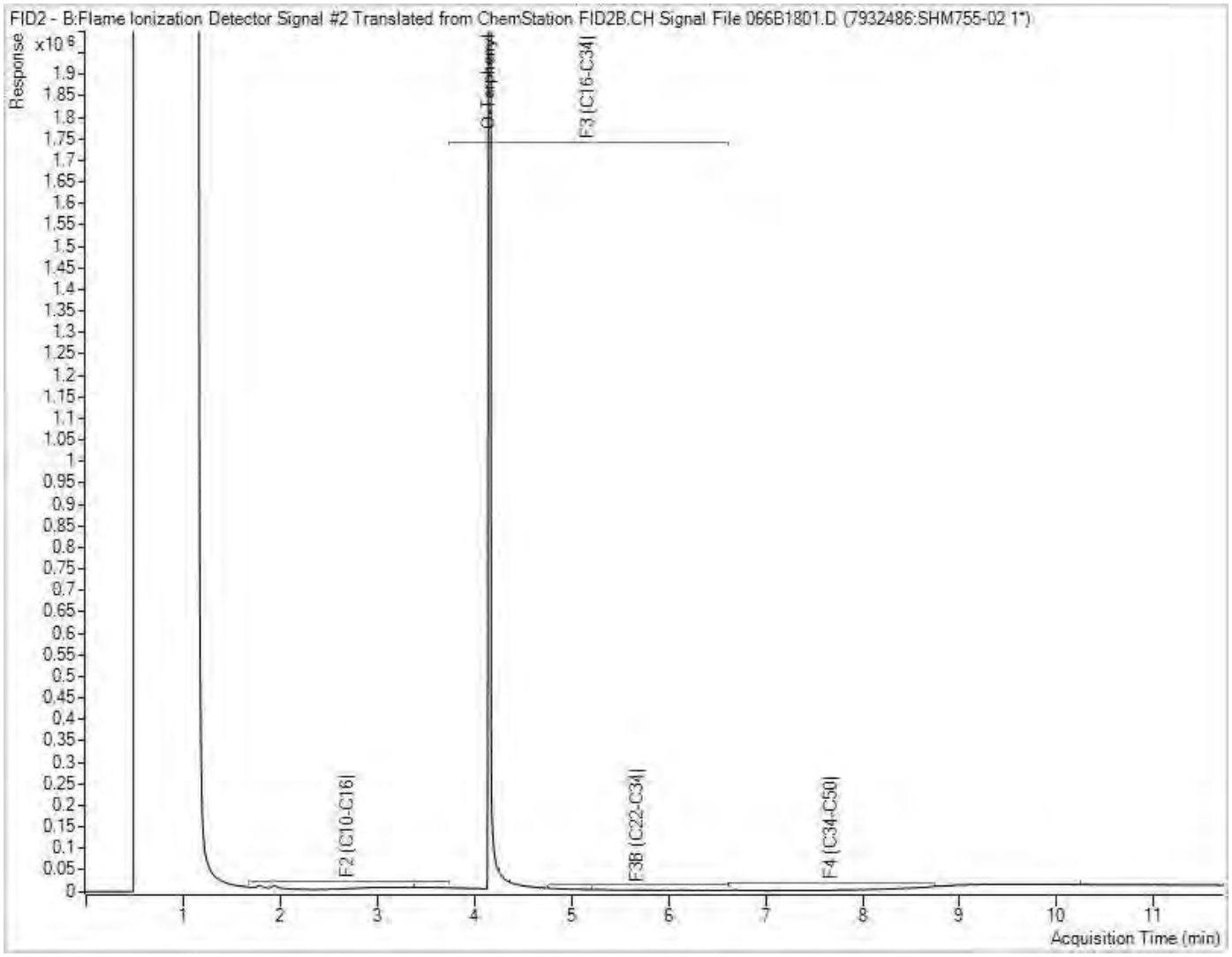
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



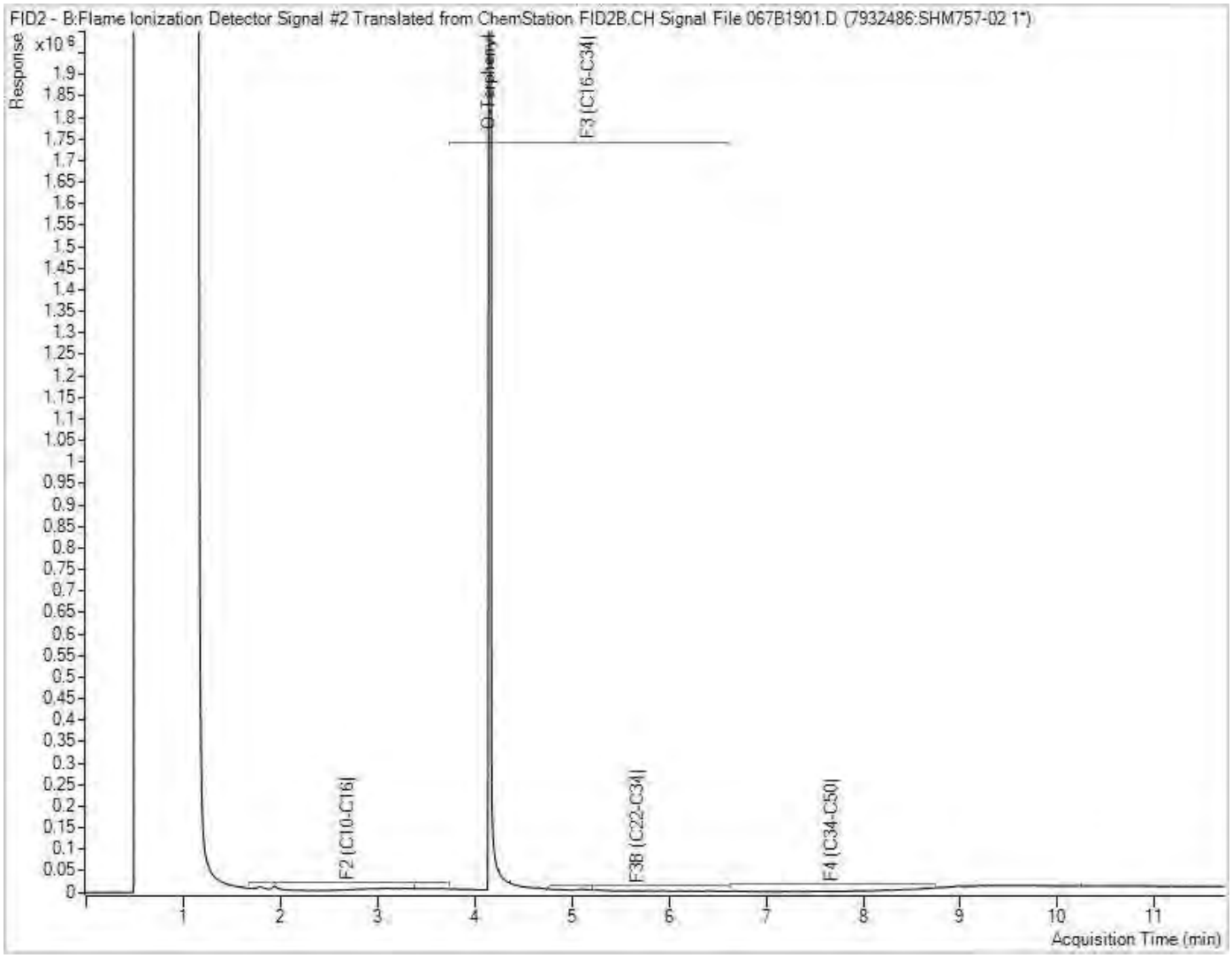
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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.

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.

Your Project #: CT3243.01
Your C.O.C. #: 878681-02-01, 878681-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/06/02
Report #: R7148379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0276
Received: 2022/05/24, 16:10

Sample Matrix: Ground Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/05/28	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	6	N/A	2022/05/27		EPA 8260C m
Chloride by Automated Colourimetry	6	N/A	2022/05/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	6	N/A	2022/05/27	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	6	N/A	2022/05/26	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2022/05/27	2022/05/27	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2022/05/27	2022/05/28	CAM SOP-00316	CCME PHC-CWS m
Mercury	6	2022/05/30	2022/05/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	6	N/A	2022/05/26	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	6	2022/05/27	2022/05/28	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	6	N/A	2022/05/26	CAM SOP-00230	EPA 8260C m

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	5	2022/05/27	2022/05/31	CAM SOP-00447	EPA 6020B m

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.

Your Project #: CT3243.01
Your C.O.C. #: 878681-02-01, 878681-01-01

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/06/02
Report #: R7148379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0276
Received: 2022/05/24, 16:10

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.

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) 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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 Signature Page.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SRX173	SRX174	SRX175	SRX176	SRX176		
Sampling Date		2022/05/18 06:45	2022/05/18 06:45	2022/05/18 06:55	2022/05/18 07:05	2022/05/18 07:05		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	1-BH209A-1	1-BH9009A-1	1-BH209B-1	1-BH209C-1	1-BH209C-1 Lab-Dup	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	0.20	0.20	<0.20	<0.20	0.26	0.20	8018430
Acid Extractable Arsenic (As)	ug/g	5.3	5.8	5.3	5.2	5.2	1.0	8018430
Acid Extractable Barium (Ba)	ug/g	100	110	120	120	110	0.50	8018430
Acid Extractable Beryllium (Be)	ug/g	0.83	0.79	0.91	0.92	0.92	0.20	8018430
Acid Extractable Boron (B)	ug/g	10	9.3	9.8	9.9	9.6	5.0	8018430
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	0.10	<0.10	0.10	8018430
Acid Extractable Chromium (Cr)	ug/g	26	26	27	27	28	1.0	8018430
Acid Extractable Cobalt (Co)	ug/g	14	14	15	14	14	0.10	8018430
Acid Extractable Copper (Cu)	ug/g	27	26	24	25	25	0.50	8018430
Acid Extractable Lead (Pb)	ug/g	9.4	9.3	10	10	10	1.0	8018430
Acid Extractable Molybdenum (Mo)	ug/g	0.66	0.62	0.71	0.61	0.61	0.50	8018430
Acid Extractable Nickel (Ni)	ug/g	30	30	32	33	32	0.50	8018430
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8018430
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8018430
Acid Extractable Thallium (Tl)	ug/g	0.15	0.14	0.15	0.16	0.15	0.050	8018430
Acid Extractable Uranium (U)	ug/g	0.95	0.86	0.85	0.78	0.75	0.050	8018430
Acid Extractable Vanadium (V)	ug/g	34	34	36	37	37	5.0	8018430
Acid Extractable Zinc (Zn)	ug/g	65	66	65	70	68	5.0	8018430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SRX177		
Sampling Date		2022/05/18 07:15		
COC Number		878681-01-01		
	UNITS	1-BH209D-1	RDL	QC Batch
Metals				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8018430
Acid Extractable Arsenic (As)	ug/g	5.0	1.0	8018430
Acid Extractable Barium (Ba)	ug/g	140	0.50	8018430
Acid Extractable Beryllium (Be)	ug/g	1.0	0.20	8018430
Acid Extractable Boron (B)	ug/g	11	5.0	8018430
Acid Extractable Cadmium (Cd)	ug/g	0.12	0.10	8018430
Acid Extractable Chromium (Cr)	ug/g	30	1.0	8018430
Acid Extractable Cobalt (Co)	ug/g	16	0.10	8018430
Acid Extractable Copper (Cu)	ug/g	25	0.50	8018430
Acid Extractable Lead (Pb)	ug/g	11	1.0	8018430
Acid Extractable Molybdenum (Mo)	ug/g	0.58	0.50	8018430
Acid Extractable Nickel (Ni)	ug/g	35	0.50	8018430
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8018430
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8018430
Acid Extractable Thallium (Tl)	ug/g	0.17	0.050	8018430
Acid Extractable Uranium (U)	ug/g	0.87	0.050	8018430
Acid Extractable Vanadium (V)	ug/g	40	5.0	8018430
Acid Extractable Zinc (Zn)	ug/g	68	5.0	8018430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX167			SRX167			SRX168		
Sampling Date		2022/05/18 14:48			2022/05/18 14:48			2022/05/18 15:30		
COC Number		878681-02-01			878681-02-01			878681-02-01		
	UNITS	1-MW 206	RDL	QC Batch	1-MW 206 Lab-Dup	RDL	QC Batch	1-MW 207	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376				<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	67	1.0	8015009				780	8.0	8013758
Metals										
Chromium (VI)	ug/L	<0.50	0.50	8013913	<0.50	0.50	8013913	<1.0	1.0	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899				<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8015411				<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L	9.5	1.0	8015411				<1.0	1.0	8015411
Dissolved Barium (Ba)	ug/L	170	2.0	8015411				29	2.0	8015411
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8015411				<0.40	0.40	8015411
Dissolved Boron (B)	ug/L	83	10	8015411				530	10	8015411
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8015411				<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8015411				<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L	11	0.50	8015411				4.1	0.50	8015411
Dissolved Copper (Cu)	ug/L	18	0.90	8015411				1.3	0.90	8015411
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8015411				<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L	0.79	0.50	8015411				6.0	0.50	8015411
Dissolved Nickel (Ni)	ug/L	17	1.0	8015411				8.7	1.0	8015411
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8015411				<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8015411				<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L	54000	100	8015411				580000	100	8015411
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8015411				0.055	0.050	8015411
Dissolved Uranium (U)	ug/L	1.2	0.10	8015411				20	0.10	8015411
Dissolved Vanadium (V)	ug/L	2.3	0.50	8015411				<0.50	0.50	8015411
Dissolved Zinc (Zn)	ug/L	9.6	5.0	8015411				<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX169			SRX170			SRX171		
Sampling Date		2022/05/18 15:30			2022/05/18 16:21			2022/05/18 15:30		
COC Number		878681-02-01			878681-02-01			878681-02-01		
	UNITS	MW 2000	RDL	QC Batch	1-MW 208	RDL	QC Batch	MW 02	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376	<1	1	8015376	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	770	8.0	8015009	450	5.0	8013758	1200	15	8015009
Metals										
Chromium (VI)	ug/L	<1.0	1.0	8013913	<0.50	0.50	8013913	<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8015411	1.2	1.0	8015411	3.1	1.0	8015411
Dissolved Barium (Ba)	ug/L	31	2.0	8015411	47	2.0	8015411	16	2.0	8015411
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8015411	<0.40	0.40	8015411	<0.40	0.40	8015411
Dissolved Boron (B)	ug/L	560	10	8015411	390	10	8015411	570	10	8015411
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8015411	<0.090	0.090	8015411	<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8015411	<5.0	5.0	8015411	<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L	4.1	0.50	8015411	1.2	0.50	8015411	2.7	0.50	8015411
Dissolved Copper (Cu)	ug/L	1.1	0.90	8015411	<0.90	0.90	8015411	<0.90	0.90	8015411
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L	6.1	0.50	8015411	11	0.50	8015411	2.0	0.50	8015411
Dissolved Nickel (Ni)	ug/L	8.7	1.0	8015411	2.9	1.0	8015411	3.3	1.0	8015411
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8015411	<2.0	2.0	8015411	<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8015411	<0.090	0.090	8015411	<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L	580000	100	8015411	350000	100	8015411	790000	500	8015411
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8015411	<0.050	0.050	8015411	<0.050	0.050	8015411
Dissolved Uranium (U)	ug/L	20	0.10	8015411	7.2	0.10	8015411	31	0.10	8015411
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8015411	<0.50	0.50	8015411	0.65	0.50	8015411
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8015411	<5.0	5.0	8015411	<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX171			SRX172		
Sampling Date		2022/05/18 15:30			2022/05/18 14:46		
COC Number		878681-02-01			878681-02-01		
	UNITS	MW 02 Lab-Dup	RDL	QC Batch	MW 03	RDL	QC Batch
Inorganics							
WAD Cyanide (Free)	ug/L				<1	1	8015376
Dissolved Chloride (Cl-)	mg/L				34	1.0	8015009
Metals							
Chromium (VI)	ug/L				<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L				<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L				1.7	1.0	8015411
Dissolved Barium (Ba)	ug/L				26	2.0	8015411
Dissolved Beryllium (Be)	ug/L				<0.40	0.40	8015411
Dissolved Boron (B)	ug/L				200	10	8015411
Dissolved Cadmium (Cd)	ug/L				<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L				<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L				<0.50	0.50	8015411
Dissolved Copper (Cu)	ug/L				1.9	0.90	8015411
Dissolved Lead (Pb)	ug/L				<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L				4.1	0.50	8015411
Dissolved Nickel (Ni)	ug/L				1.9	1.0	8015411
Dissolved Selenium (Se)	ug/L				<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L				<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L				130000	100	8015411
Dissolved Thallium (Tl)	ug/L				<0.050	0.050	8015411
Dissolved Uranium (U)	ug/L				8.0	0.10	8015411
Dissolved Vanadium (V)	ug/L				0.62	0.50	8015411
Dissolved Zinc (Zn)	ug/L				<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	8012858			
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Acenaphthylene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	8018529	<0.0090	0.0090	8018529
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Chrysene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Fluoranthene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Fluorene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Naphthalene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Phenanthrene	ug/L	<0.030	<0.030	0.030	8018529	<0.030	0.030	8018529
Pyrene	ug/L	<0.050	<0.050	0.050	8018529	<0.050	0.050	8018529
Surrogate Recovery (%)								
D10-Anthracene	%	109	98		8018529	99		8018529
D14-Terphenyl (FS)	%	96	92		8018529	95		8018529
D8-Acenaphthylene	%	101	91		8018529	94		8018529

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	0.071	8012858
Polyaromatic Hydrocarbons							
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	8018529
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	0.030	8018529
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	8018529
Surrogate Recovery (%)							
D10-Anthracene	%	103	97	100	101		8018529
D14-Terphenyl (FS)	%	100	92	92	95		8018529
D8-Acenaphthylene	%	97	92	94	94		8018529

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	8012859			
Volatile Organics								
Acetone (2-Propanone)	ug/L	56	<10	10	8013490			
Benzene	ug/L	<0.17	<0.17	0.17	8013490			
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	8013490			
Bromoform	ug/L	<1.0	<1.0	1.0	8013490			
Bromomethane	ug/L	<0.50	<0.50	0.50	8013490			
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	8013490			
Chlorobenzene	ug/L	<0.20	<0.20	0.20	8013490			
Chloroform	ug/L	<0.20	<0.20	0.20	8013490			
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	8013490			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8013490			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	8013490			
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	8013490			
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	8013490			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8013490			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8013490			
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	8013490			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	8013490			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	8013490			
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8013490			
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	8013490			
Hexane	ug/L	<1.0	<1.0	1.0	8013490			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	8013490			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	8013490			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	8013490			
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	8013490			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX167	SRX168			SRX168		
Sampling Date		2022/05/18 14:48	2022/05/18 15:30			2022/05/18 15:30		
COC Number		878681-02-01	878681-02-01			878681-02-01		
	UNITS	1-MW 206	1-MW 207	RDL	QC Batch	1-MW 207 Lab-Dup	RDL	QC Batch
Styrene	ug/L	<0.50	<0.50	0.50	8013490			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8013490			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8013490			
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
Toluene	ug/L	<0.20	<0.20	0.20	8013490			
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	8013490			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	8013490			
Trichloroethylene	ug/L	<0.20	<0.20	0.20	8013490			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	8013490			
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	8013490			
p+m-Xylene	ug/L	<0.20	<0.20	0.20	8013490			
o-Xylene	ug/L	<0.20	<0.20	0.20	8013490			
Total Xylenes	ug/L	<0.20	<0.20	0.20	8013490			
F1 (C6-C10)	ug/L	<25	<25	25	8013490			
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	8013490			
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	8018549	<100	100	8018549
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	8018549	<200	200	8018549
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8018549	<200	200	8018549
Reached Baseline at C50	ug/L	Yes	Yes		8018549	Yes		8018549
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	83	86		8013490			
D4-1,2-Dichloroethane	%	116	116		8013490			
D8-Toluene	%	95	95		8013490			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8012859
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	8013490
Benzene	ug/L	<0.17	<0.17	<0.17	<0.17	0.17	8013490
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	8013490
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	8013490
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	8013490
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	8013490
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	8013490
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX169	SRX170	SRX171	SRX172		
Sampling Date		2022/05/18 15:30	2022/05/18 16:21	2022/05/18 15:30	2022/05/18 14:46		
COC Number		878681-02-01	878681-02-01	878681-02-01	878681-02-01		
	UNITS	MW 2000	1-MW 208	MW 02	MW 03	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	8013490
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	8013490
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	8018549
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8018549
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8018549
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		8018549
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	85	86	86	85		8013490
D4-1,2-Dichloroethane	%	116	113	114	116		8013490
D8-Toluene	%	95	96	95	94		8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SRX167 **Collected:** 2022/05/18
Sample ID: 1-MW 206 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX167 Dup **Collected:** 2022/05/18
Sample ID: 1-MW 206 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck

Bureau Veritas ID: SRX168 **Collected:** 2022/05/18
Sample ID: 1-MW 207 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX168 Dup **Collected:** 2022/05/18
Sample ID: 1-MW 207 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon

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TEST SUMMARY

Bureau Veritas ID: SRX169 **Collected:** 2022/05/18
Sample ID: MW 2000 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX170 **Collected:** 2022/05/18
Sample ID: 1-MW 208 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/27	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX171 **Collected:** 2022/05/18
Sample ID: MW 02 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/28	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

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TEST SUMMARY

Bureau Veritas ID: SRX171 Dup
Sample ID: MW 02
Matrix: Ground Water
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur

Bureau Veritas ID: SRX172
Sample ID: MW 03
Matrix: Ground Water
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8018549	2022/05/27	2022/05/28	Dennis Ngondu
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8018529	2022/05/27	2022/05/28	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX173
Sample ID: 1-BH209A-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX174
Sample ID: 1-BH9009A-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX175
Sample ID: 1-BH209B-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX176
Sample ID: 1-BH209C-1
Matrix: Soil
Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

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TEST SUMMARY

Bureau Veritas ID: SRX176 Dup
Sample ID: 1-BH209C-1
Matrix: Soil

Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

Bureau Veritas ID: SRX177
Sample ID: 1-BH209D-1
Matrix: Soil

Collected: 2022/05/18
Shipped:
Received: 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8018430	2022/05/27	2022/05/31	Daniel Teclu

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GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	7.0°C
Package 3	8.0°C

Sample SRX168 [1-MW 207] : Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample SRX169 [MW 2000] : Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	4-Bromofluorobenzene	2022/05/26	93	70 - 130	92	70 - 130	87	%		
8013490	D4-1,2-Dichloroethane	2022/05/26	111	70 - 130	111	70 - 130	110	%		
8013490	D8-Toluene	2022/05/26	105	70 - 130	105	70 - 130	97	%		
8018529	D10-Anthracene	2022/05/28	101	50 - 130	102	50 - 130	103	%		
8018529	D14-Terphenyl (FS)	2022/05/28	97	50 - 130	95	50 - 130	97	%		
8018529	D8-Acenaphthylene	2022/05/28	95	50 - 130	94	50 - 130	95	%		
8013490	1,1,1,2-Tetrachloroethane	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,1,1-Trichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1,2,2-Tetrachloroethane	2022/05/26	103	70 - 130	94	70 - 130	<0.50	ug/L		
8013490	1,1,2-Trichloroethane	2022/05/26	110	70 - 130	101	70 - 130	<0.50	ug/L		
8013490	1,1-Dichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1-Dichloroethylene	2022/05/26	93	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,2-Dichlorobenzene	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloroethane	2022/05/26	97	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloropropane	2022/05/26	95	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,3-Dichlorobenzene	2022/05/26	94	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	1,4-Dichlorobenzene	2022/05/26	108	70 - 130	102	70 - 130	<0.50	ug/L		
8013490	Acetone (2-Propanone)	2022/05/26	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
8013490	Benzene	2022/05/26	89	70 - 130	85	70 - 130	<0.17	ug/L	NC	30
8013490	Bromodichloromethane	2022/05/26	98	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	Bromoform	2022/05/26	93	70 - 130	85	70 - 130	<1.0	ug/L		
8013490	Bromomethane	2022/05/26	92	60 - 140	88	60 - 140	<0.50	ug/L		
8013490	Carbon Tetrachloride	2022/05/26	91	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chlorobenzene	2022/05/26	95	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chloroform	2022/05/26	97	70 - 130	92	70 - 130	<0.20	ug/L	2.0	30
8013490	cis-1,2-Dichloroethylene	2022/05/26	94	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	cis-1,3-Dichloropropene	2022/05/26	82	70 - 130	75	70 - 130	<0.30	ug/L		
8013490	Dibromochloromethane	2022/05/26	96	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	Dichlorodifluoromethane (FREON 12)	2022/05/26	55 (1)	60 - 140	57 (1)	60 - 140	<1.0	ug/L		
8013490	Ethylbenzene	2022/05/26	84	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
8013490	Ethylene Dibromide	2022/05/26	97	70 - 130	88	70 - 130	<0.20	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	F1 (C6-C10) - BTEX	2022/05/26					<25	ug/L	NC	30
8013490	F1 (C6-C10)	2022/05/26	85	60 - 140	92	60 - 140	<25	ug/L	NC	30
8013490	Hexane	2022/05/26	91	70 - 130	91	70 - 130	<1.0	ug/L		
8013490	Methyl Ethyl Ketone (2-Butanone)	2022/05/26	106	60 - 140	98	60 - 140	<10	ug/L		
8013490	Methyl Isobutyl Ketone	2022/05/26	90	70 - 130	84	70 - 130	<5.0	ug/L		
8013490	Methyl t-butyl ether (MTBE)	2022/05/26	80	70 - 130	76	70 - 130	<0.50	ug/L		
8013490	Methylene Chloride(Dichloromethane)	2022/05/26	103	70 - 130	99	70 - 130	<2.0	ug/L		
8013490	o-Xylene	2022/05/26	86	70 - 130	80	70 - 130	<0.20	ug/L	NC	30
8013490	p+m-Xylene	2022/05/26	88	70 - 130	81	70 - 130	<0.20	ug/L	NC	30
8013490	Styrene	2022/05/26	92	70 - 130	85	70 - 130	<0.50	ug/L		
8013490	Tetrachloroethylene	2022/05/26	91	70 - 130	86	70 - 130	<0.20	ug/L		
8013490	Toluene	2022/05/26	88	70 - 130	83	70 - 130	<0.20	ug/L	NC	30
8013490	Total Xylenes	2022/05/26					<0.20	ug/L	NC	30
8013490	trans-1,2-Dichloroethylene	2022/05/26	96	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	trans-1,3-Dichloropropene	2022/05/26	95	70 - 130	84	70 - 130	<0.40	ug/L		
8013490	Trichloroethylene	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	Trichlorofluoromethane (FREON 11)	2022/05/26	93	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	Vinyl Chloride	2022/05/26	86	70 - 130	85	70 - 130	<0.20	ug/L		
8013758	Dissolved Chloride (Cl-)	2022/05/26	105	80 - 120	105	80 - 120	<1.0	mg/L	0.20	20
8013913	Chromium (VI)	2022/05/27	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8015009	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.5	20
8015376	WAD Cyanide (Free)	2022/05/26	63 (2)	80 - 120	96	80 - 120	<1	ug/L	NC	20
8015411	Dissolved Antimony (Sb)	2022/05/26	108	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8015411	Dissolved Arsenic (As)	2022/05/26	105	80 - 120	101	80 - 120	<1.0	ug/L	4.3	20
8015411	Dissolved Barium (Ba)	2022/05/26	107	80 - 120	100	80 - 120	<2.0	ug/L	0.76	20
8015411	Dissolved Beryllium (Be)	2022/05/26	113	80 - 120	105	80 - 120	<0.40	ug/L	NC	20
8015411	Dissolved Boron (B)	2022/05/26	113	80 - 120	106	80 - 120	<10	ug/L	5.2	20
8015411	Dissolved Cadmium (Cd)	2022/05/26	105	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Chromium (Cr)	2022/05/26	104	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
8015411	Dissolved Cobalt (Co)	2022/05/26	106	80 - 120	101	80 - 120	<0.50	ug/L	2.7	20
8015411	Dissolved Copper (Cu)	2022/05/26	111	80 - 120	99	80 - 120	<0.90	ug/L	1.2	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015411	Dissolved Lead (Pb)	2022/05/26	98	80 - 120	99	80 - 120	<0.50	ug/L	0.59	20
8015411	Dissolved Molybdenum (Mo)	2022/05/26	114	80 - 120	100	80 - 120	<0.50	ug/L	0.92	20
8015411	Dissolved Nickel (Ni)	2022/05/26	100	80 - 120	99	80 - 120	<1.0	ug/L	3.2	20
8015411	Dissolved Selenium (Se)	2022/05/26	102	80 - 120	104	80 - 120	<2.0	ug/L	4.5	20
8015411	Dissolved Silver (Ag)	2022/05/26	83	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Sodium (Na)	2022/05/26	90	80 - 120	104	80 - 120	<100	ug/L	0.18	20
8015411	Dissolved Thallium (Tl)	2022/05/26	102	80 - 120	104	80 - 120	<0.050	ug/L	NC	20
8015411	Dissolved Uranium (U)	2022/05/26	108	80 - 120	103	80 - 120	<0.10	ug/L	1.1	20
8015411	Dissolved Vanadium (V)	2022/05/26	110	80 - 120	101	80 - 120	<0.50	ug/L	12	20
8015411	Dissolved Zinc (Zn)	2022/05/26	99	80 - 120	100	80 - 120	<5.0	ug/L	1.0	20
8018430	Acid Extractable Antimony (Sb)	2022/05/31	100	75 - 125	105	80 - 120	<0.20	ug/g	24	30
8018430	Acid Extractable Arsenic (As)	2022/05/31	103	75 - 125	99	80 - 120	<1.0	ug/g	0.99	30
8018430	Acid Extractable Barium (Ba)	2022/05/31	NC	75 - 125	102	80 - 120	<0.50	ug/g	2.1	30
8018430	Acid Extractable Beryllium (Be)	2022/05/31	110	75 - 125	103	80 - 120	<0.20	ug/g	0.21	30
8018430	Acid Extractable Boron (B)	2022/05/31	104	75 - 125	101	80 - 120	<5.0	ug/g	2.7	30
8018430	Acid Extractable Cadmium (Cd)	2022/05/31	110	75 - 125	101	80 - 120	<0.10	ug/g	3.8	30
8018430	Acid Extractable Chromium (Cr)	2022/05/31	NC	75 - 125	103	80 - 120	<1.0	ug/g	1.7	30
8018430	Acid Extractable Cobalt (Co)	2022/05/31	108	75 - 125	102	80 - 120	<0.10	ug/g	1.1	30
8018430	Acid Extractable Copper (Cu)	2022/05/31	NC	75 - 125	105	80 - 120	<0.50	ug/g	0.87	30
8018430	Acid Extractable Lead (Pb)	2022/05/31	108	75 - 125	103	80 - 120	<1.0	ug/g	2.5	30
8018430	Acid Extractable Molybdenum (Mo)	2022/05/31	109	75 - 125	102	80 - 120	<0.50	ug/g	0.27	30
8018430	Acid Extractable Nickel (Ni)	2022/05/31	NC	75 - 125	104	80 - 120	<0.50	ug/g	2.8	30
8018430	Acid Extractable Selenium (Se)	2022/05/31	103	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
8018430	Acid Extractable Silver (Ag)	2022/05/31	104	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
8018430	Acid Extractable Thallium (Tl)	2022/05/31	108	75 - 125	106	80 - 120	<0.050	ug/g	8.4	30
8018430	Acid Extractable Uranium (U)	2022/05/31	106	75 - 125	102	80 - 120	<0.050	ug/g	4.5	30
8018430	Acid Extractable Vanadium (V)	2022/05/31	NC	75 - 125	102	80 - 120	<5.0	ug/g	2.3	30
8018430	Acid Extractable Zinc (Zn)	2022/05/31	NC	75 - 125	97	80 - 120	<5.0	ug/g	2.7	30
8018529	1-Methylnaphthalene	2022/05/28	104	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
8018529	2-Methylnaphthalene	2022/05/28	101	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8018529	Acenaphthene	2022/05/28	98	50 - 130	96	50 - 130	<0.050	ug/L	NC	30

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8018529	Acenaphthylene	2022/05/28	95	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8018529	Anthracene	2022/05/28	99	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(a)anthracene	2022/05/28	105	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(a)pyrene	2022/05/28	90	50 - 130	89	50 - 130	<0.0090	ug/L	NC	30
8018529	Benzo(b/j)fluoranthene	2022/05/28	98	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(g,h,i)perylene	2022/05/28	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8018529	Benzo(k)fluoranthene	2022/05/28	102	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Chrysene	2022/05/28	102	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8018529	Dibenzo(a,h)anthracene	2022/05/28	97	50 - 130	95	50 - 130	<0.050	ug/L	NC	30
8018529	Fluoranthene	2022/05/28	106	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8018529	Fluorene	2022/05/28	100	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8018529	Indeno(1,2,3-cd)pyrene	2022/05/28	106	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8018529	Naphthalene	2022/05/28	95	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8018529	Phenanthrene	2022/05/28	101	50 - 130	101	50 - 130	<0.030	ug/L	NC	30
8018529	Pyrene	2022/05/28	106	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8018549	F2 (C10-C16 Hydrocarbons)	2022/05/27	95	60 - 130	99	60 - 130	<100	ug/L	NC	30
8018549	F3 (C16-C34 Hydrocarbons)	2022/05/27	102	60 - 130	111	60 - 130	<200	ug/L	NC	30
8018549	F4 (C34-C50 Hydrocarbons)	2022/05/27	99	60 - 130	104	60 - 130	<200	ug/L	NC	30
8021899	Mercury (Hg)	2022/05/30	93	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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

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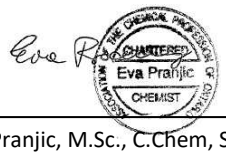
VALIDATION SIGNATURE PAGE

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



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 Signature Page.

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CHAIN

Page 1 of 2

24-May-22 16:10
Kudrat Bajwa
C2E0276
TPS ENV-895
C#878681-02-01
Kudrat Bajwa

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex	Quotation #:	C20955
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:	
Address:	90 Scarsdale Rd	Address:	90 Scarsdale Rd	Project:	CT3243.01
	Toronto ON M3B 2R7		Toronto ON M3B 2A7	Project Name:	
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Site #:	
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Sampled By:	JF, AS, AP

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): ☐ Table 1 ☑ Res/Park ☑ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☑ For RSC ☑ Table 5

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)? N

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): ~~Metals / Hg / Cr VI~~	O Reg 153 VOCs by HS & F1-F4	O Reg 153 PAHs	O Reg 153 Metals & Inorganics Pkg	ICPMS metals							# of Bottles	Comments
1		1-MW206	May 18 2022	14:48	GW	Y	✓	✓	✓								10	Silt PAL
2		1-MW207		15:30			✓	✓	✓								10	
3		MW2000		15:30			✓	✓	✓								10	
4		1-MW208		16:21			✓	✓	✓								10	
5		MW 02		15:30			✓	✓	✓								10	
6		MW 03		14:46			✓	✓	✓								10	
7		1-BH209A-1		06:45	S	N/A			✓	✓							1	
8		1-BH9009A-1		06:45					✓	✓							1	
9		1-BH209B-1		06:55					✓	✓							1	
10		1-BH209E-1		07:05					✓	✓							1	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only
Jesse Fortier	22/05/19	17:00	[signature]	22/05/19	1610	0		Temperature (°C) on Recei

Custody Seal	Yes	No
Present		
Intact		

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#4398 Terrapex Environmental Ltd	Company Name:	Terrapex	Quotation #:	C20955	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Roy Yu	P.O. #:			878681
Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Address:	90 Scarsdale Rd Toronto ON M3B 2R7	Project:	CT3243.01	COC #:	Project Manager:
Tel:	(416) 245-0011 Fax: (416) 245-0012	Tel:	(416) 245-0011 Ext: 229 Fax:	Project Name:		C#878681-01-01	Kudrat Bajwa
Email:	accounts.payable@terrapex.com	Email:	R.Yu@terrapex.com	Site #:			
				Sampled By:	JEASAP		

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)	Other Regulations	Special Instructions
☐ Table 1 ☑ Res/Park ☑ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☑ For RSC ☑ Table 5	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 VOCs by HS & F1-F4	O Reg 153 PAHs	ICPMS metals O Reg 153 Metals & Inorganics Plus							# of Bottles	Comments
1		1-BH209D-1	May 18 2022	07:15	S	N/A			✓							1	
2		1-BH209E-1	"	07:25	"	"			"							1	On Hold
3		1-BH209F-1	"	07:35	"	"			"							1	On Hold
4		1-BH209H-1	"	07:45	"	"			"							1	On Hold
5		1-BH209G-1	"	07:55	"	"			"							1	On Hold
6																	
7																	
8																	
9																	
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				
Jesse Fortier	22/05/19	17:00		22/05/19	1610	0	Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
									Present		
									Intact		

* 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/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.

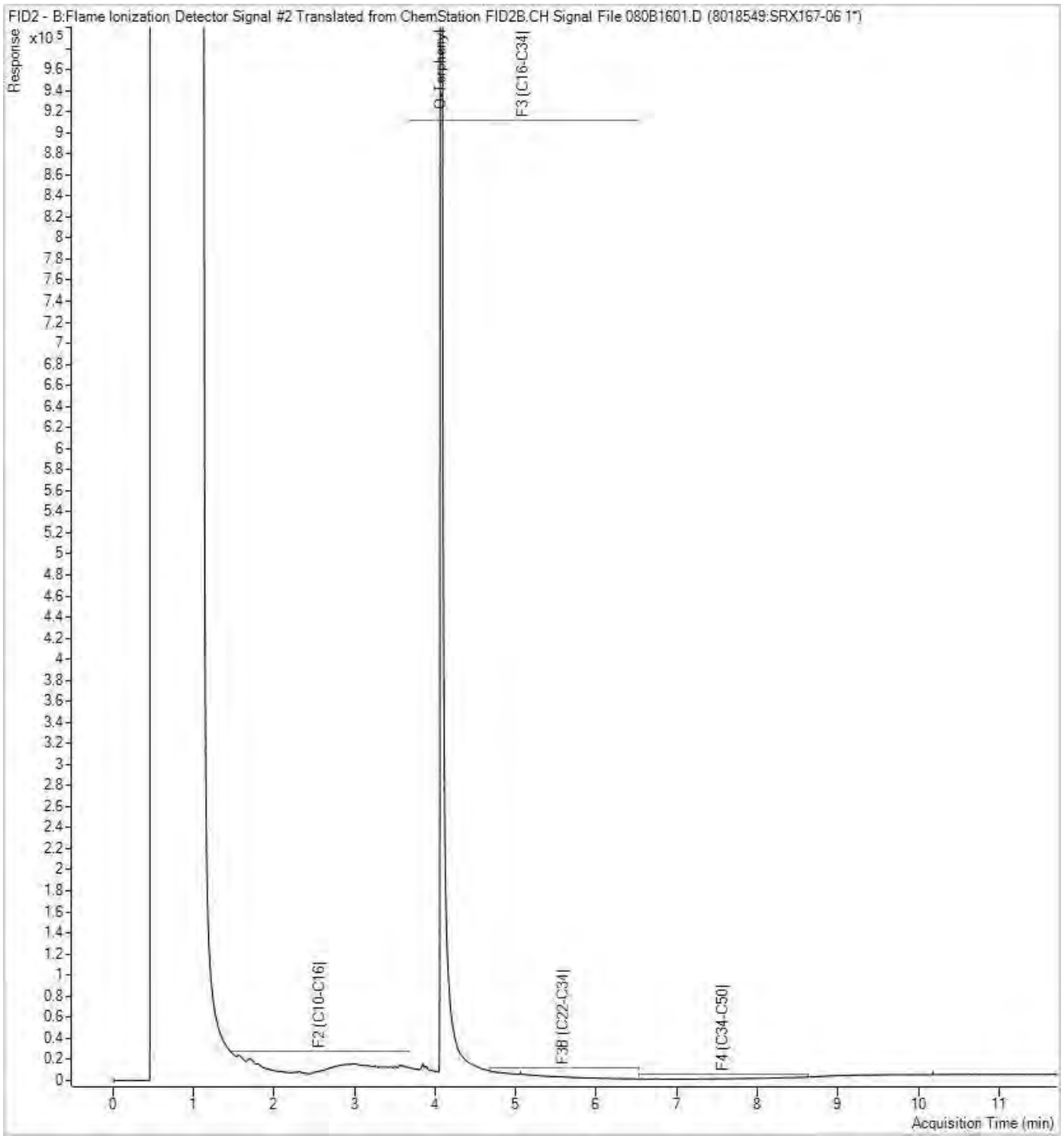
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

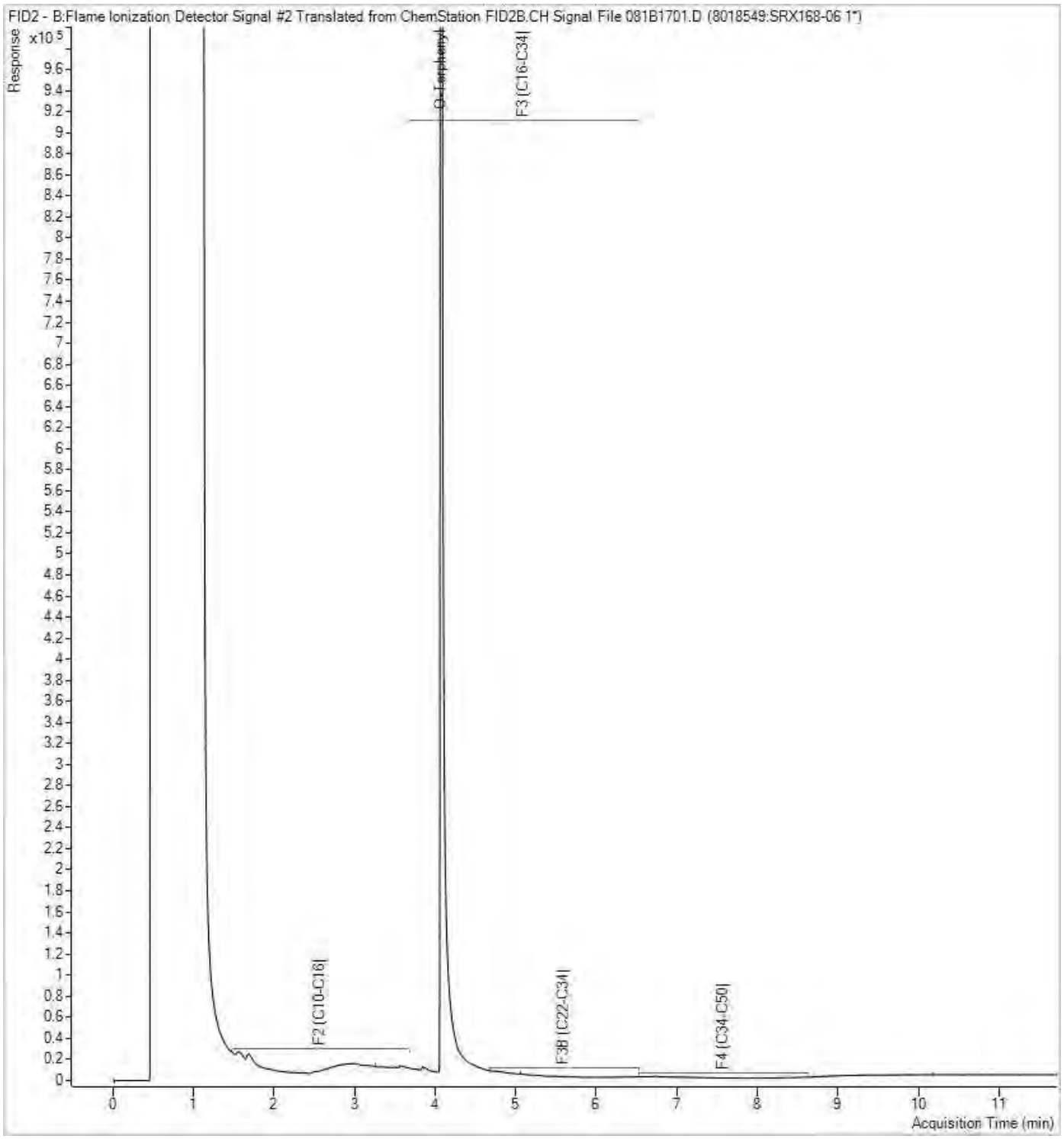
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



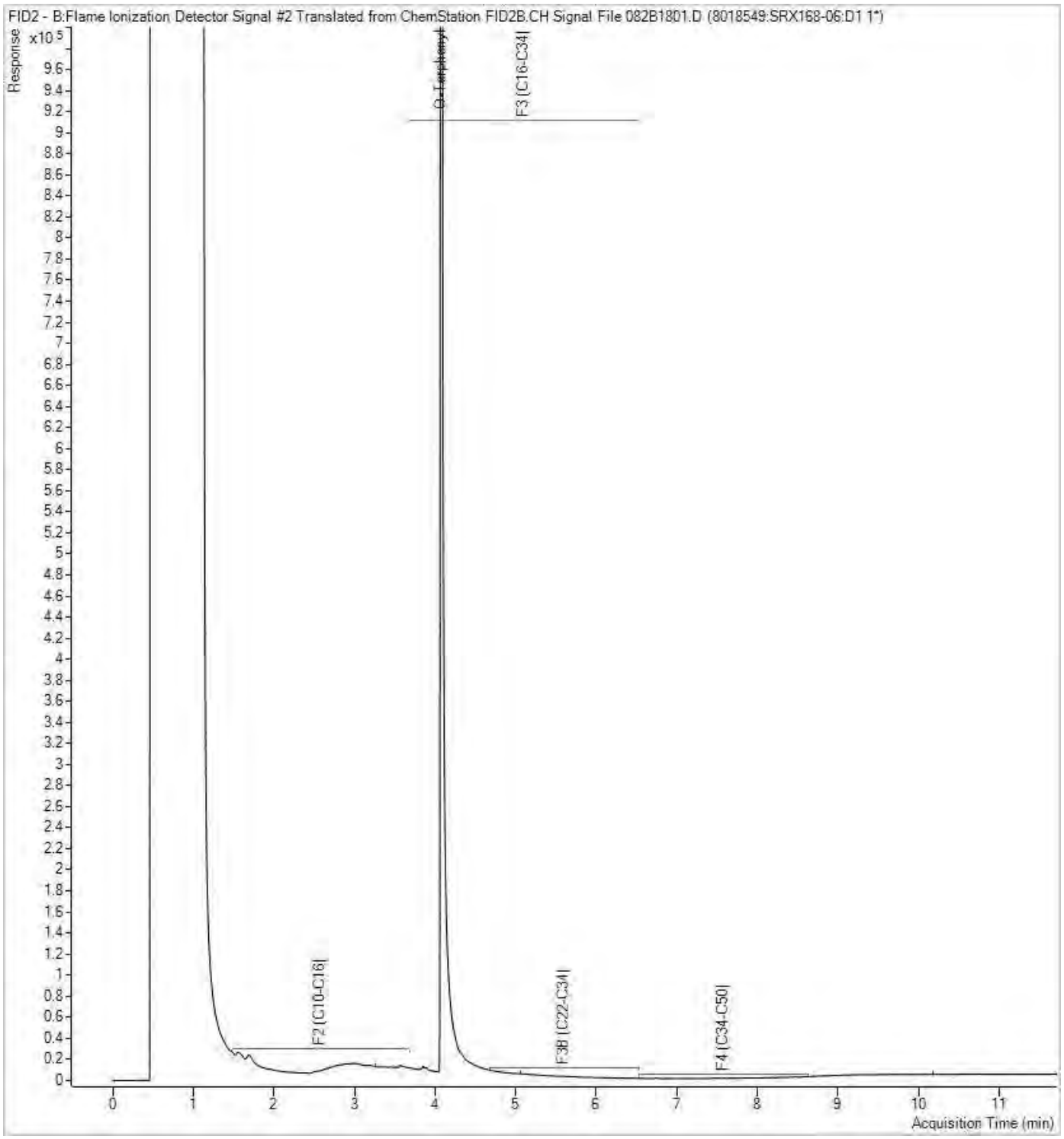
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



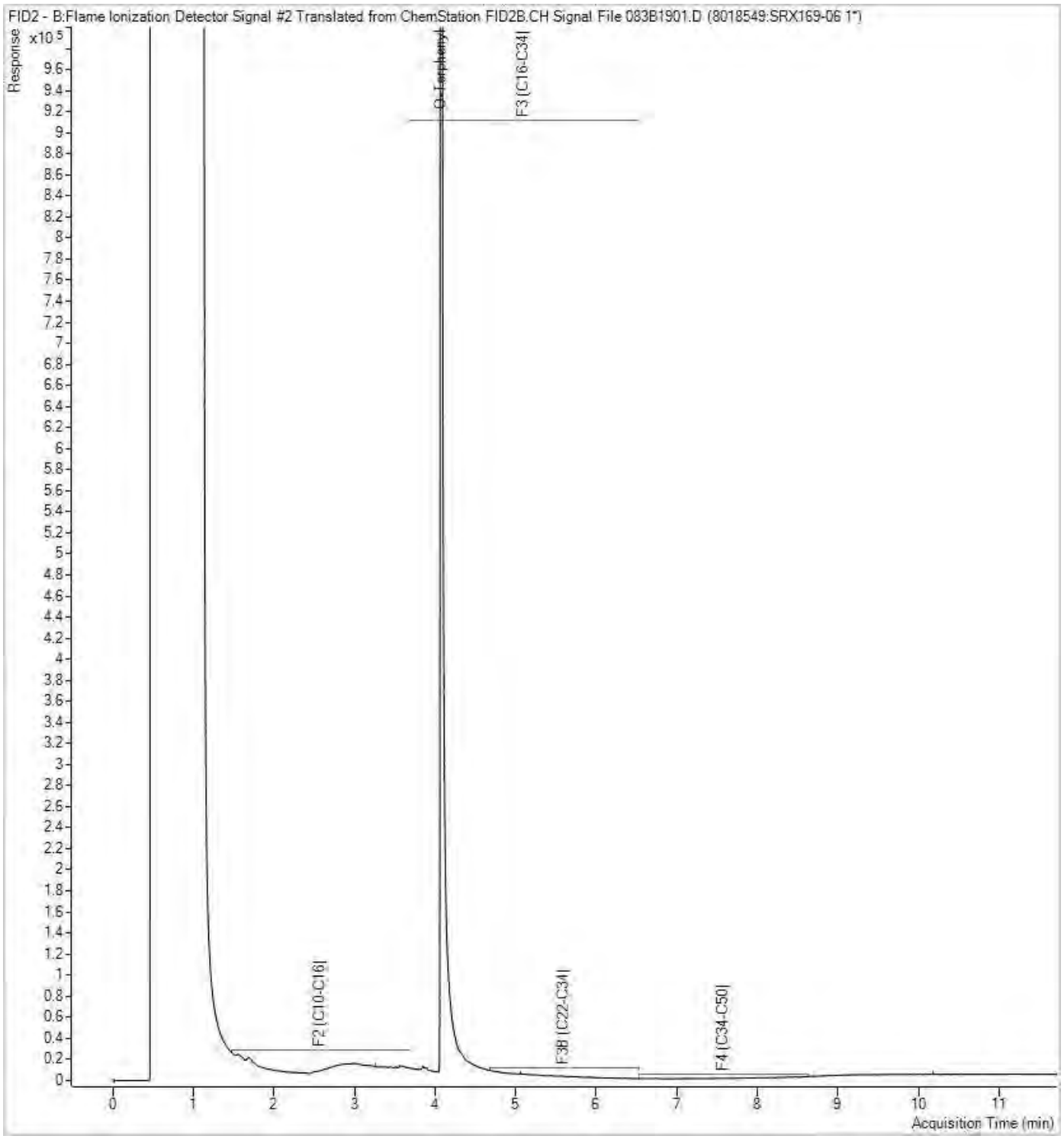
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



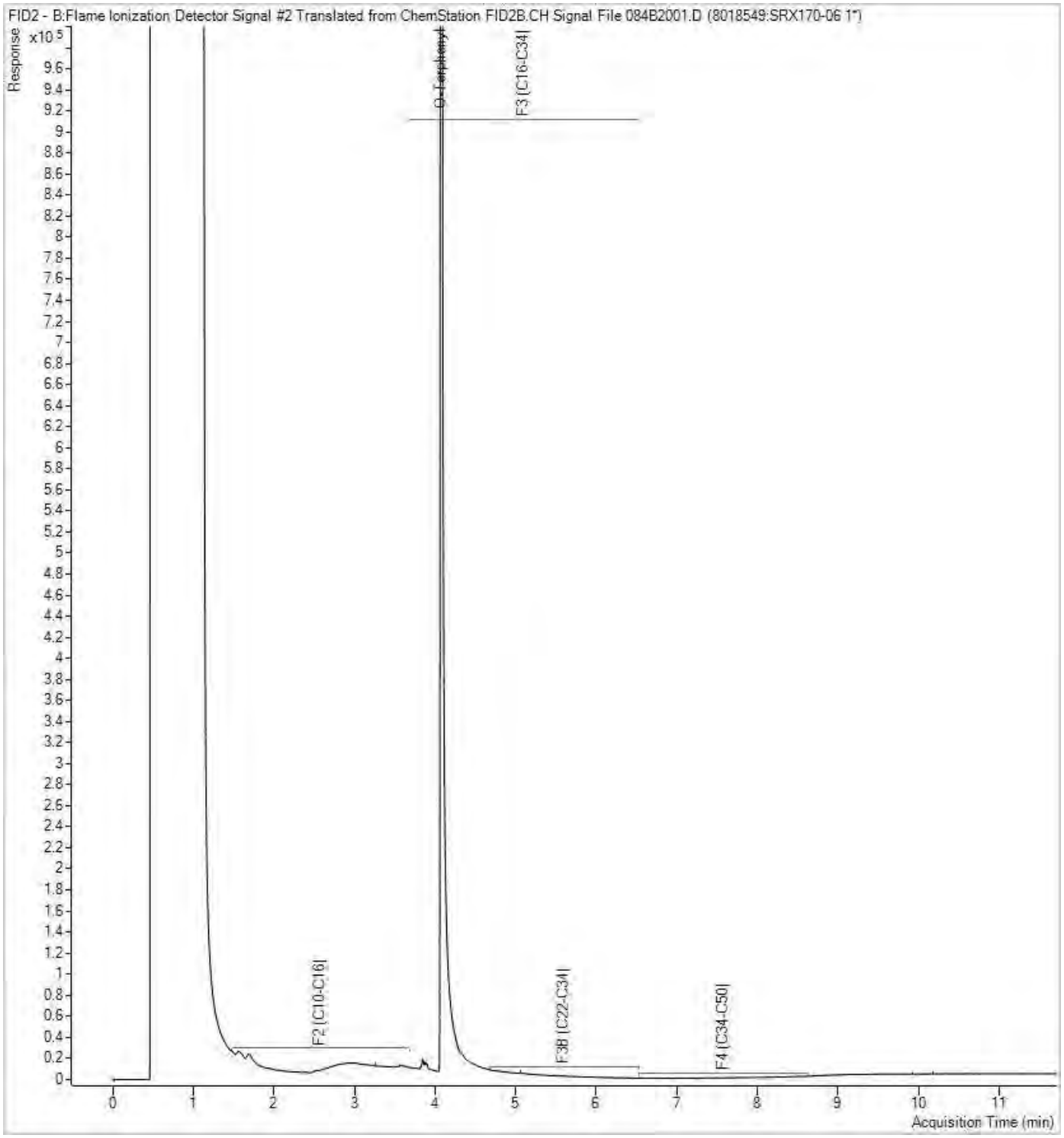
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



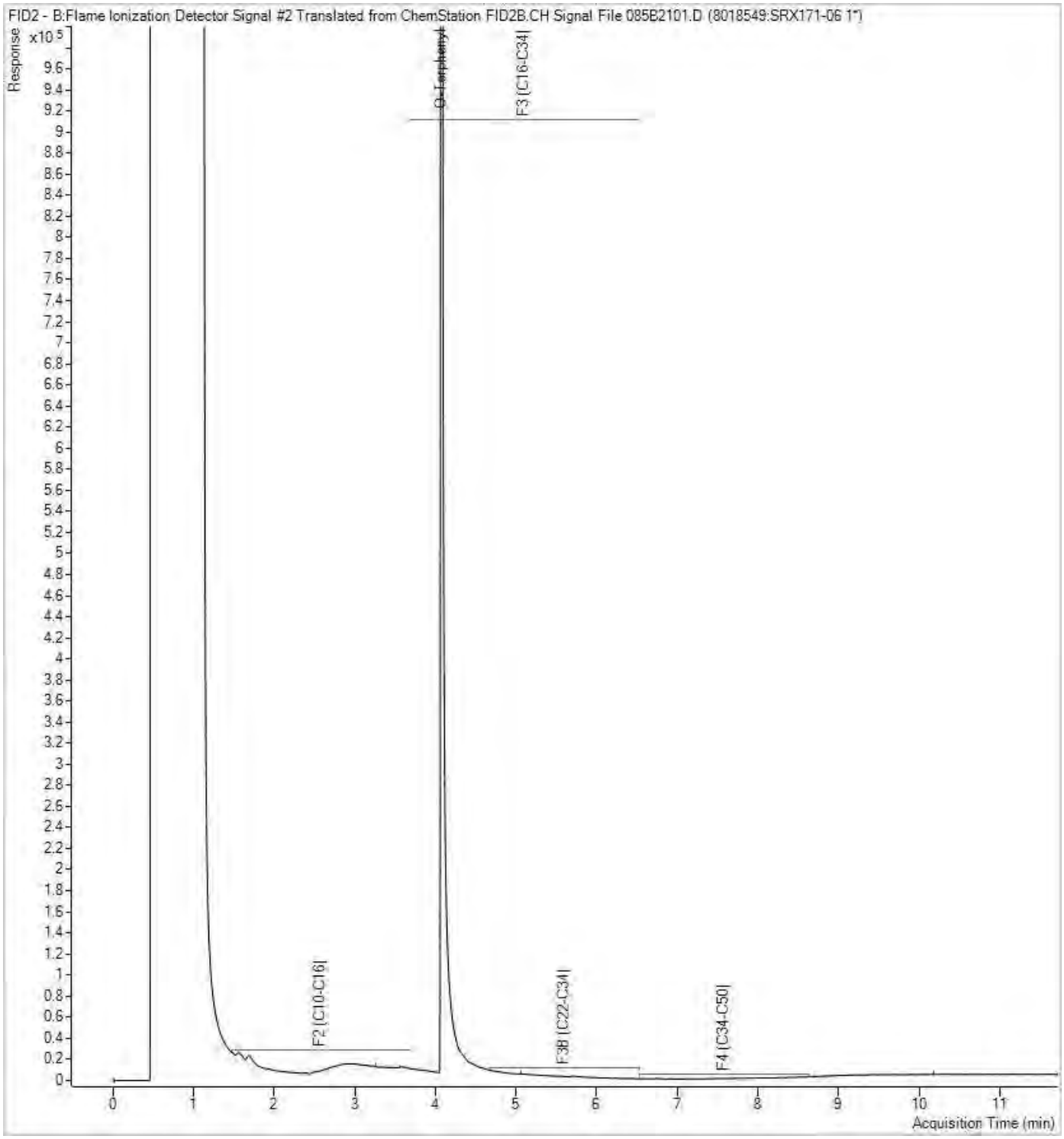
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



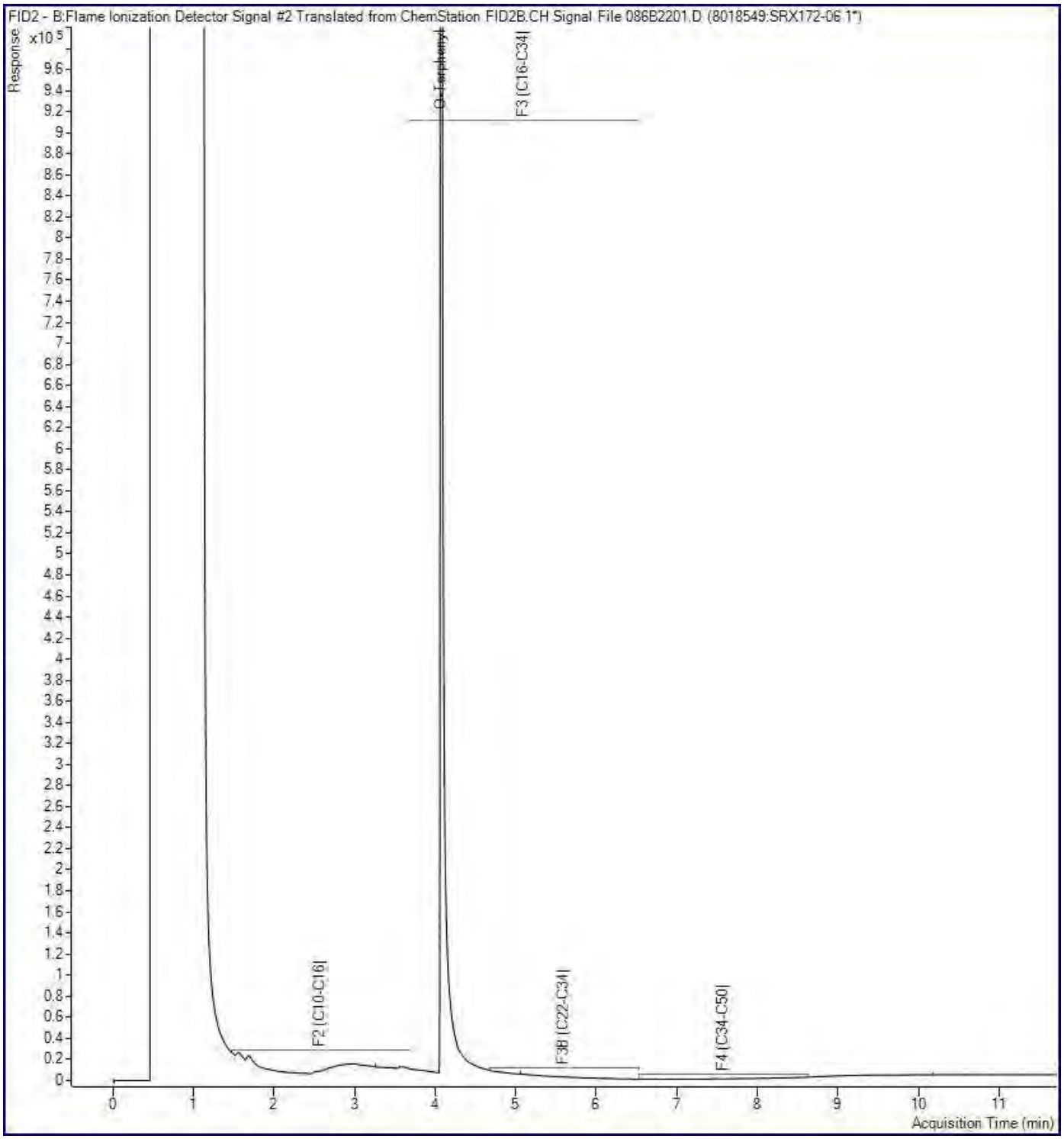
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7146390
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0287
Received: 2022/05/24, 16:10

Sample Matrix: Ground Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/05/31	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	4	N/A	2022/05/27		EPA 8260C m
Chloride by Automated Colourimetry	4	N/A	2022/05/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	4	N/A	2022/05/27	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	4	N/A	2022/05/26	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2022/05/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	6	2022/05/28	2022/05/30	CAM SOP-00316	CCME PHC-CWS m
Mercury	4	2022/05/30	2022/05/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	4	N/A	2022/05/30	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	6	2022/05/28	2022/05/29	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	4	N/A	2022/05/26	CAM SOP-00230	EPA 8260C m

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.

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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7146390
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0287
Received: 2022/05/24, 16:10

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

(1) 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

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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 Signature Page.

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX254			SRX254			SRX255		SRX256		
Sampling Date		2022/05/18 11:54			2022/05/18 11:54			2022/05/18 11:54		2022/05/18 12:15		
COC Number		na			na			na		na		
	UNITS	3-MW231	RDL	QC Batch	3-MW231 Lab-Dup	RDL	QC Batch	MW1000	RDL	MW12	RDL	QC Batch
Inorganics												
WAD Cyanide (Free)	ug/L	<1	1	8015376	<1	1	8015376	1	1	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	190	2.0	8013758				200	2.0	15	1.0	8015009
Metals												
Chromium (VI)	ug/L	<0.50	0.50	8013913				<0.50	0.50	0.57	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899				<0.10	0.10	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	8015417				<2.5	2.5	<0.50	0.50	8015417
Dissolved Arsenic (As)	ug/L	<5.0	5.0	8015417				<5.0	5.0	<1.0	1.0	8015417
Dissolved Barium (Ba)	ug/L	22	10	8015417				21	10	24	2.0	8015417
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	8015417				<2.0	2.0	<0.40	0.40	8015417
Dissolved Boron (B)	ug/L	350	50	8015417				350	50	56	10	8015417
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	8015417				<0.45	0.45	<0.090	0.090	8015417
Dissolved Chromium (Cr)	ug/L	<25	25	8015417				<25	25	<5.0	5.0	8015417
Dissolved Cobalt (Co)	ug/L	5.4	2.5	8015417				5.3	2.5	<0.50	0.50	8015417
Dissolved Copper (Cu)	ug/L	<4.5	4.5	8015417				<4.5	4.5	4.4	0.90	8015417
Dissolved Lead (Pb)	ug/L	<2.5	2.5	8015417				<2.5	2.5	<0.50	0.50	8015417
Dissolved Molybdenum (Mo)	ug/L	4.7	2.5	8015417				4.7	2.5	1.9	0.50	8015417
Dissolved Nickel (Ni)	ug/L	9.3	5.0	8015417				9.4	5.0	2.3	1.0	8015417
Dissolved Selenium (Se)	ug/L	<10	10	8015417				<10	10	<2.0	2.0	8015417
Dissolved Silver (Ag)	ug/L	<0.45	0.45	8015417				<0.45	0.45	<0.090	0.090	8015417
Dissolved Sodium (Na)	ug/L	330000	500	8015417				330000	500	28000	100	8015417
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	8015417				<0.25	0.25	<0.050	0.050	8015417
Dissolved Uranium (U)	ug/L	21	0.50	8015417				20	0.50	3.4	0.10	8015417
Dissolved Vanadium (V)	ug/L	<2.5	2.5	8015417				<2.5	2.5	<0.50	0.50	8015417
Dissolved Zinc (Zn)	ug/L	<25	25	8015417				<25	25	<5.0	5.0	8015417

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX257		
Sampling Date		2022/05/18 12:52		
COC Number		na		
	UNITS	MW13	RDL	QC Batch
Inorganics				
WAD Cyanide (Free)	ug/L	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	110	1.0	8013758
Metals				
Chromium (VI)	ug/L	<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	8015417
Dissolved Arsenic (As)	ug/L	<5.0	5.0	8015417
Dissolved Barium (Ba)	ug/L	21	10	8015417
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	8015417
Dissolved Boron (B)	ug/L	240	50	8015417
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	8015417
Dissolved Chromium (Cr)	ug/L	<25	25	8015417
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	8015417
Dissolved Copper (Cu)	ug/L	<4.5	4.5	8015417
Dissolved Lead (Pb)	ug/L	<2.5	2.5	8015417
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	8015417
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	8015417
Dissolved Selenium (Se)	ug/L	<10	10	8015417
Dissolved Silver (Ag)	ug/L	<0.45	0.45	8015417
Dissolved Sodium (Na)	ug/L	220000	500	8015417
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	8015417
Dissolved Uranium (U)	ug/L	21	0.50	8015417
Dissolved Vanadium (V)	ug/L	<2.5	2.5	8015417
Dissolved Zinc (Zn)	ug/L	<25	25	8015417

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX252	SRX253	SRX254	SRX255	SRX256	SRX257		
Sampling Date		2022/05/19 10:55	2022/05/19 09:59	2022/05/18 11:54	2022/05/18 11:54	2022/05/18 12:15	2022/05/18 12:52		
COC Number		na	na	na	na	na	na		
	UNITS	3-MW228	3-MW229	3-MW231	MW1000	MW12	MW13	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	8012858
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	8020491
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	8020491
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Surrogate Recovery (%)									
D10-Anthracene	%	87	87	88	84	87	92		8020491
D14-Terphenyl (FS)	%	75	76	83	76	76	87		8020491
D8-Acenaphthylene	%	85	86	87	84	87	91		8020491

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SRX252	SRX253		
Sampling Date		2022/05/19 10:55	2022/05/19 09:59		
COC Number		na	na		
	UNITS	3-MW228	3-MW229	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20	<0.20	0.20	8020509
Toluene	ug/L	<0.20	<0.20	0.20	8020509
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8020509
o-Xylene	ug/L	<0.20	<0.20	0.20	8020509
p+m-Xylene	ug/L	<0.40	<0.40	0.40	8020509
Total Xylenes	ug/L	<0.40	<0.40	0.40	8020509
F1 (C6-C10)	ug/L	<25	<25	25	8020509
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	8020509
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	8020490
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	8020490
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8020490
Reached Baseline at C50	ug/L	Yes	Yes		8020490
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	100	99		8020509
4-Bromofluorobenzene	%	100	101		8020509
D10-o-Xylene	%	117	117		8020509
D4-1,2-Dichloroethane	%	99	98		8020509
o-Terphenyl	%	104	102		8020490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX254	SRX255	SRX256	SRX257		
Sampling Date		2022/05/18 11:54	2022/05/18 11:54	2022/05/18 12:15	2022/05/18 12:52		
COC Number		na	na	na	na		
	UNITS	3-MW231	MW1000	MW12	MW13	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8012859
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	8013490
Benzene	ug/L	<0.17	<0.17	<0.17	<0.17	0.17	8013490
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	8013490
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	8013490
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	8013490
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	8013490
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	8013490
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	8013490
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SRX254	SRX255	SRX256	SRX257		
Sampling Date		2022/05/18 11:54	2022/05/18 11:54	2022/05/18 12:15	2022/05/18 12:52		
COC Number		na	na	na	na		
	UNITS	3-MW231	MW1000	MW12	MW13	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8013490
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8013490
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	8013490
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	8013490
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	8020490
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8020490
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	8020490
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		8020490
Surrogate Recovery (%)							
o-Terphenyl	%	101	100	101	102		8020490
4-Bromofluorobenzene	%	85	84	84	85		8013490
D4-1,2-Dichloroethane	%	116	116	116	117		8013490
D8-Toluene	%	95	94	95	95		8013490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SRX252 **Collected:** 2022/05/19
Sample ID: 3-MW228 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8020509	N/A	2022/05/29	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX253 **Collected:** 2022/05/19
Sample ID: 3-MW229 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8020509	N/A	2022/05/29	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX254 **Collected:** 2022/05/18
Sample ID: 3-MW231 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX254 Dup **Collected:** 2022/05/18
Sample ID: 3-MW231 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh

Bureau Veritas ID: SRX255 **Collected:** 2022/05/18
Sample ID: MW1000 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu

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TEST SUMMARY

Bureau Veritas ID: SRX255 **Collected:** 2022/05/18
Sample ID: MW1000 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX256 **Collected:** 2022/05/18
Sample ID: MW12 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

Bureau Veritas ID: SRX257 **Collected:** 2022/05/18
Sample ID: MW13 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8013490	N/A	2022/05/26	Xueming Jiang

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GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	7.0°C
Package 3	8.0°C

Sample SRX254 [3-MW231] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample SRX255 [MW1000] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample SRX257 [MW13] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	4-Bromofluorobenzene	2022/05/26	93	70 - 130	92	70 - 130	87	%		
8013490	D4-1,2-Dichloroethane	2022/05/26	111	70 - 130	111	70 - 130	110	%		
8013490	D8-Toluene	2022/05/26	105	70 - 130	105	70 - 130	97	%		
8020490	o-Terphenyl	2022/05/29	105	60 - 130	107	60 - 130	103	%		
8020491	D10-Anthracene	2022/05/29	93	50 - 130	89	50 - 130	88	%		
8020491	D14-Terphenyl (FS)	2022/05/29	87	50 - 130	84	50 - 130	81	%		
8020491	D8-Acenaphthylene	2022/05/29	93	50 - 130	86	50 - 130	87	%		
8020509	1,4-Difluorobenzene	2022/05/29	95	70 - 130	96	70 - 130	102	%		
8020509	4-Bromofluorobenzene	2022/05/29	100	70 - 130	100	70 - 130	98	%		
8020509	D10-o-Xylene	2022/05/29	123	70 - 130	125	70 - 130	113	%		
8020509	D4-1,2-Dichloroethane	2022/05/29	96	70 - 130	95	70 - 130	95	%		
8013490	1,1,1,2-Tetrachloroethane	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,1,1-Trichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1,2,2-Tetrachloroethane	2022/05/26	103	70 - 130	94	70 - 130	<0.50	ug/L		
8013490	1,1,2-Trichloroethane	2022/05/26	110	70 - 130	101	70 - 130	<0.50	ug/L		
8013490	1,1-Dichloroethane	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,1-Dichloroethylene	2022/05/26	93	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,2-Dichlorobenzene	2022/05/26	96	70 - 130	90	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloroethane	2022/05/26	97	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	1,2-Dichloropropane	2022/05/26	95	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	1,3-Dichlorobenzene	2022/05/26	94	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	1,4-Dichlorobenzene	2022/05/26	108	70 - 130	102	70 - 130	<0.50	ug/L		
8013490	Acetone (2-Propanone)	2022/05/26	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
8013490	Benzene	2022/05/26	89	70 - 130	85	70 - 130	<0.17	ug/L	NC	30
8013490	Bromodichloromethane	2022/05/26	98	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	Bromoform	2022/05/26	93	70 - 130	85	70 - 130	<1.0	ug/L		
8013490	Bromomethane	2022/05/26	92	60 - 140	88	60 - 140	<0.50	ug/L		
8013490	Carbon Tetrachloride	2022/05/26	91	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chlorobenzene	2022/05/26	95	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	Chloroform	2022/05/26	97	70 - 130	92	70 - 130	<0.20	ug/L	2.0	30
8013490	cis-1,2-Dichloroethylene	2022/05/26	94	70 - 130	90	70 - 130	<0.50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8013490	cis-1,3-Dichloropropene	2022/05/26	82	70 - 130	75	70 - 130	<0.30	ug/L		
8013490	Dibromochloromethane	2022/05/26	96	70 - 130	88	70 - 130	<0.50	ug/L		
8013490	Dichlorodifluoromethane (FREON 12)	2022/05/26	55 (1)	60 - 140	57 (1)	60 - 140	<1.0	ug/L		
8013490	Ethylbenzene	2022/05/26	84	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
8013490	Ethylene Dibromide	2022/05/26	97	70 - 130	88	70 - 130	<0.20	ug/L		
8013490	F1 (C6-C10) - BTEX	2022/05/26					<25	ug/L	NC	30
8013490	F1 (C6-C10)	2022/05/26	85	60 - 140	92	60 - 140	<25	ug/L	NC	30
8013490	Hexane	2022/05/26	91	70 - 130	91	70 - 130	<1.0	ug/L		
8013490	Methyl Ethyl Ketone (2-Butanone)	2022/05/26	106	60 - 140	98	60 - 140	<10	ug/L		
8013490	Methyl Isobutyl Ketone	2022/05/26	90	70 - 130	84	70 - 130	<5.0	ug/L		
8013490	Methyl t-butyl ether (MTBE)	2022/05/26	80	70 - 130	76	70 - 130	<0.50	ug/L		
8013490	Methylene Chloride(Dichloromethane)	2022/05/26	103	70 - 130	99	70 - 130	<2.0	ug/L		
8013490	o-Xylene	2022/05/26	86	70 - 130	80	70 - 130	<0.20	ug/L	NC	30
8013490	p+m-Xylene	2022/05/26	88	70 - 130	81	70 - 130	<0.20	ug/L	NC	30
8013490	Styrene	2022/05/26	92	70 - 130	85	70 - 130	<0.50	ug/L		
8013490	Tetrachloroethylene	2022/05/26	91	70 - 130	86	70 - 130	<0.20	ug/L		
8013490	Toluene	2022/05/26	88	70 - 130	83	70 - 130	<0.20	ug/L	NC	30
8013490	Total Xylenes	2022/05/26					<0.20	ug/L	NC	30
8013490	trans-1,2-Dichloroethylene	2022/05/26	96	70 - 130	93	70 - 130	<0.50	ug/L		
8013490	trans-1,3-Dichloropropene	2022/05/26	95	70 - 130	84	70 - 130	<0.40	ug/L		
8013490	Trichloroethylene	2022/05/26	94	70 - 130	91	70 - 130	<0.20	ug/L		
8013490	Trichlorofluoromethane (FREON 11)	2022/05/26	93	70 - 130	91	70 - 130	<0.50	ug/L		
8013490	Vinyl Chloride	2022/05/26	86	70 - 130	85	70 - 130	<0.20	ug/L		
8013758	Dissolved Chloride (Cl-)	2022/05/26	105	80 - 120	105	80 - 120	<1.0	mg/L	0.20	20
8013913	Chromium (VI)	2022/05/27	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8015009	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.5	20
8015376	WAD Cyanide (Free)	2022/05/26	63 (2)	80 - 120	96	80 - 120	<1	ug/L	NC	20
8015417	Dissolved Antimony (Sb)	2022/05/30	107	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8015417	Dissolved Arsenic (As)	2022/05/30	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
8015417	Dissolved Barium (Ba)	2022/05/30	100	80 - 120	102	80 - 120	<2.0	ug/L	0.031	20
8015417	Dissolved Beryllium (Be)	2022/05/30	102	80 - 120	101	80 - 120	<0.40	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015417	Dissolved Boron (B)	2022/05/30	96	80 - 120	99	80 - 120	<10	ug/L	5.1	20
8015417	Dissolved Cadmium (Cd)	2022/05/30	102	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8015417	Dissolved Chromium (Cr)	2022/05/30	102	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8015417	Dissolved Cobalt (Co)	2022/05/30	99	80 - 120	98	80 - 120	<0.50	ug/L	1.6	20
8015417	Dissolved Copper (Cu)	2022/05/30	103	80 - 120	97	80 - 120	<0.90	ug/L	8.8	20
8015417	Dissolved Lead (Pb)	2022/05/30	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8015417	Dissolved Molybdenum (Mo)	2022/05/30	109	80 - 120	101	80 - 120	<0.50	ug/L	0.60	20
8015417	Dissolved Nickel (Ni)	2022/05/30	95	80 - 120	96	80 - 120	<1.0	ug/L	1.9	20
8015417	Dissolved Selenium (Se)	2022/05/30	101	80 - 120	98	80 - 120	<2.0	ug/L	NC	20
8015417	Dissolved Silver (Ag)	2022/05/30	86	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8015417	Dissolved Sodium (Na)	2022/05/30	NC	80 - 120	98	80 - 120	<100	ug/L	0.13	20
8015417	Dissolved Thallium (Tl)	2022/05/30	99	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8015417	Dissolved Uranium (U)	2022/05/30	98	80 - 120	96	80 - 120	<0.10	ug/L	3.5	20
8015417	Dissolved Vanadium (V)	2022/05/30	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8015417	Dissolved Zinc (Zn)	2022/05/30	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
8020490	F2 (C10-C16 Hydrocarbons)	2022/05/30	114	60 - 130	98	60 - 130	<100	ug/L	NC	30
8020490	F3 (C16-C34 Hydrocarbons)	2022/05/30	113	60 - 130	109	60 - 130	<200	ug/L	NC	30
8020490	F4 (C34-C50 Hydrocarbons)	2022/05/30	110	60 - 130	110	60 - 130	<200	ug/L	NC	30
8020491	1-Methylnaphthalene	2022/05/29	97	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8020491	2-Methylnaphthalene	2022/05/29	90	50 - 130	81	50 - 130	<0.050	ug/L	NC	30
8020491	Acenaphthene	2022/05/29	98	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Acenaphthylene	2022/05/29	92	50 - 130	84	50 - 130	<0.050	ug/L	NC	30
8020491	Anthracene	2022/05/29	96	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(a)anthracene	2022/05/29	103	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(a)pyrene	2022/05/29	88	50 - 130	83	50 - 130	<0.0090	ug/L	NC	30
8020491	Benzo(b/j)fluoranthene	2022/05/29	98	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(g,h,i)perylene	2022/05/29	98	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(k)fluoranthene	2022/05/29	93	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
8020491	Chrysene	2022/05/29	104	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8020491	Dibenzo(a,h)anthracene	2022/05/29	84	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
8020491	Fluoranthene	2022/05/29	109	50 - 130	103	50 - 130	<0.050	ug/L	NC	30

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8020491	Fluorene	2022/05/29	95	50 - 130	88	50 - 130	<0.050	ug/L	NC	30
8020491	Indeno(1,2,3-cd)pyrene	2022/05/29	93	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Naphthalene	2022/05/29	80	50 - 130	76	50 - 130	<0.050	ug/L	NC	30
8020491	Phenanthrene	2022/05/29	100	50 - 130	95	50 - 130	<0.030	ug/L	NC	30
8020491	Pyrene	2022/05/29	106	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8020509	Benzene	2022/05/29	94	50 - 140	96	50 - 140	<0.20	ug/L	NC	30
8020509	Ethylbenzene	2022/05/29	108	50 - 140	111	50 - 140	<0.20	ug/L	NC	30
8020509	F1 (C6-C10) - BTEX	2022/05/29					<25	ug/L	NC	30
8020509	F1 (C6-C10)	2022/05/29	91	60 - 140	94	60 - 140	<25	ug/L	NC	30
8020509	o-Xylene	2022/05/29	105	50 - 140	107	50 - 140	<0.20	ug/L	NC	30
8020509	p+m-Xylene	2022/05/29	104	50 - 140	107	50 - 140	<0.40	ug/L	NC	30
8020509	Toluene	2022/05/29	97	50 - 140	99	50 - 140	<0.20	ug/L	NC	30
8020509	Total Xylenes	2022/05/29					<0.40	ug/L	NC	30
8021899	Mercury (Hg)	2022/05/30	93	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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).

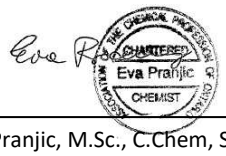
(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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

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

VALIDATION SIGNATURE PAGE

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



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

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Page 1 of 1

24-May-22 16:10
Kudrat Bajwa
C2E0287

TPS ENV-908

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	Terrapex Environmental LTD	Company:	Terrapex Environmental LTD	Quotation #:	C20955
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	
Street Address:	95 Scarsdale Rd	Street Address:	95 Scarsdale Rd	Project #:	CT3243.01
City:	Toronto Prov: ON Postal Code: M3B2R7	City:	Toronto Prov: ON Postal Code: M3B2R7	Site #:	
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	
Email:	accounts.payable@terrapex.com	Email:	R.yu@terrapex.com	Site Location Province:	
Copies:		Copies:		Sampled By:	JF, AS, AP

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☑ Table 5 | ☑ Res/Park ☐ Ind/Comm ☐ Agri/other | ☐ Med/Fine ☑ Course ☑ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ PWQO | ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☐

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 ICP-MS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10 PAHs	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE
1	3-MW228	22	05	19	10	55	Water - Ground	N/A			x	x					x										5	
2	3-MW229	22	05	19	9	59	Water - Ground	N/A			x	x					x										5	
3	3-MW231	22	05	18	11	54	Water - Ground	x			x	x	x	x			x										10	
4	MW1000	22	05	18	11	54	Water - Ground	x			x	x	x	x			x										10	
5	MW12	22	05	18	12	15	Water - Ground	x			x	x	x	x			x										10	
6	MW13	22	05	18	12	52	Water - Ground	x			x	x	x	x			x										10	
7																												
8																												
9																												
10																												
11																												
12																												

5 PAI

Regular Turnaround Time (TAT)
☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

Comments

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	LAB USE ONLY	Yes	No	°C	LAB USE ONLY	Yes	No	°C	Temperature reading by:
Seal present			1 17.1	Seal present			1	Seal present			1	
Seal intact			2 4.9	Seal intact			2	Seal intact			2	
Cooling media present			3	Cooling media present			3	Cooling media present			3	

Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special instructions
1 Jesse Fortier	22	05	19	17	00	1	22	05	24	16	10	
2						2						

C2E0287

Affix Job Label Here

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

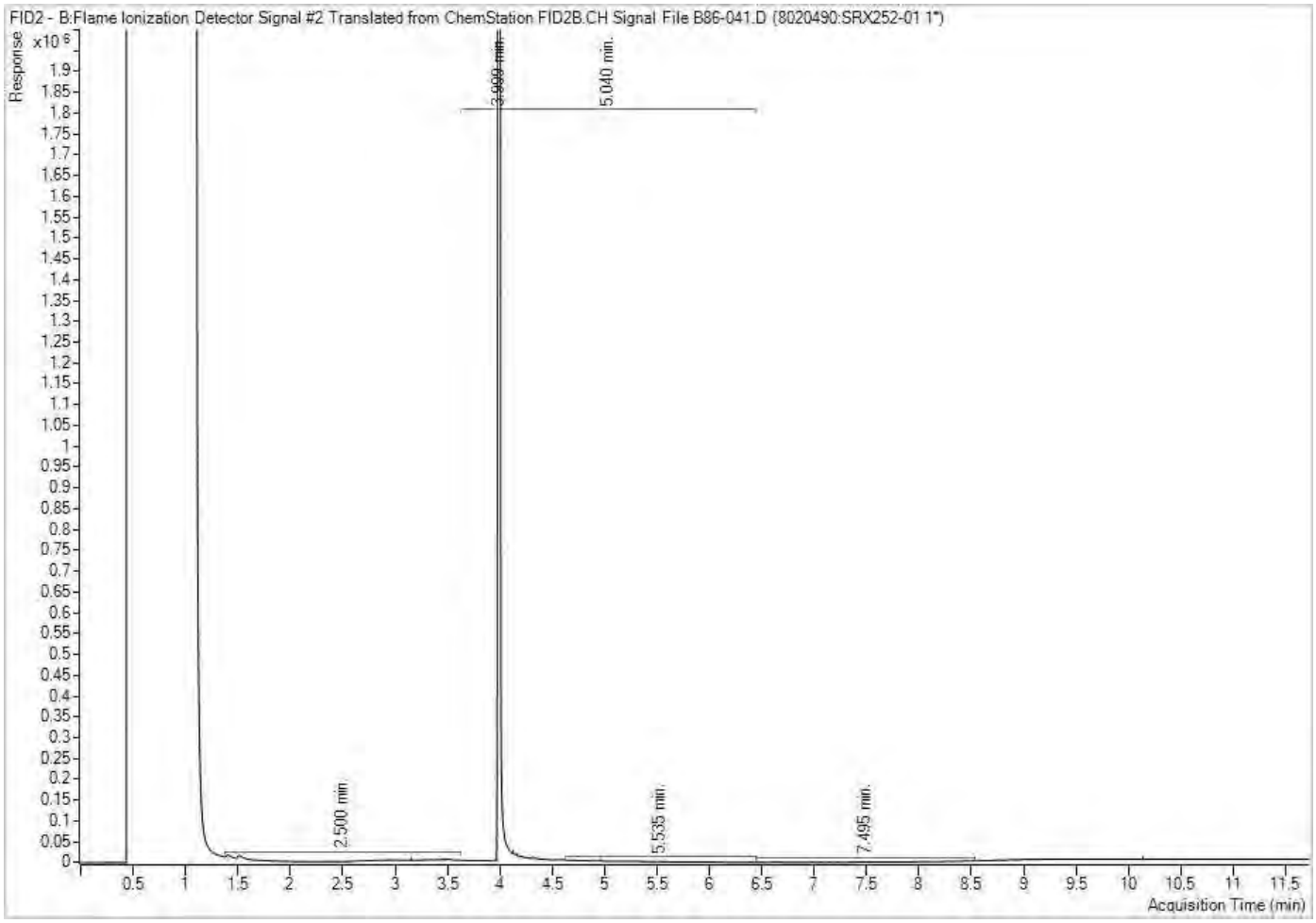
			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	3-MW228	TS																											
2	MW12				TS																	TS	TS		TS	TS	TS		
3	MW13				TS																	TS	TS		TS	TS	TS		
4																													
5																													
6																													
7																													
8																													
9																													
10																													

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

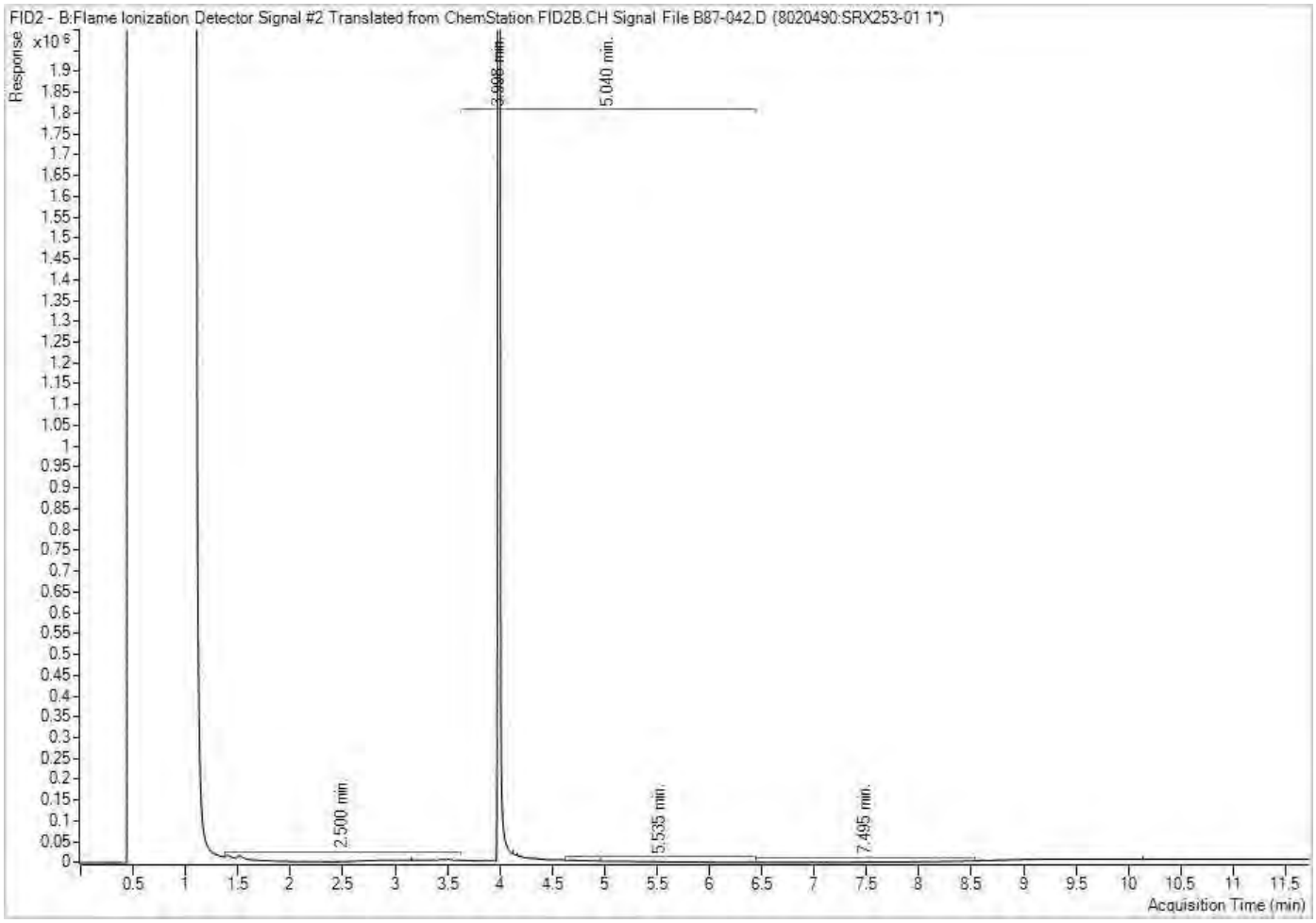
Recorded By: (signature/print)

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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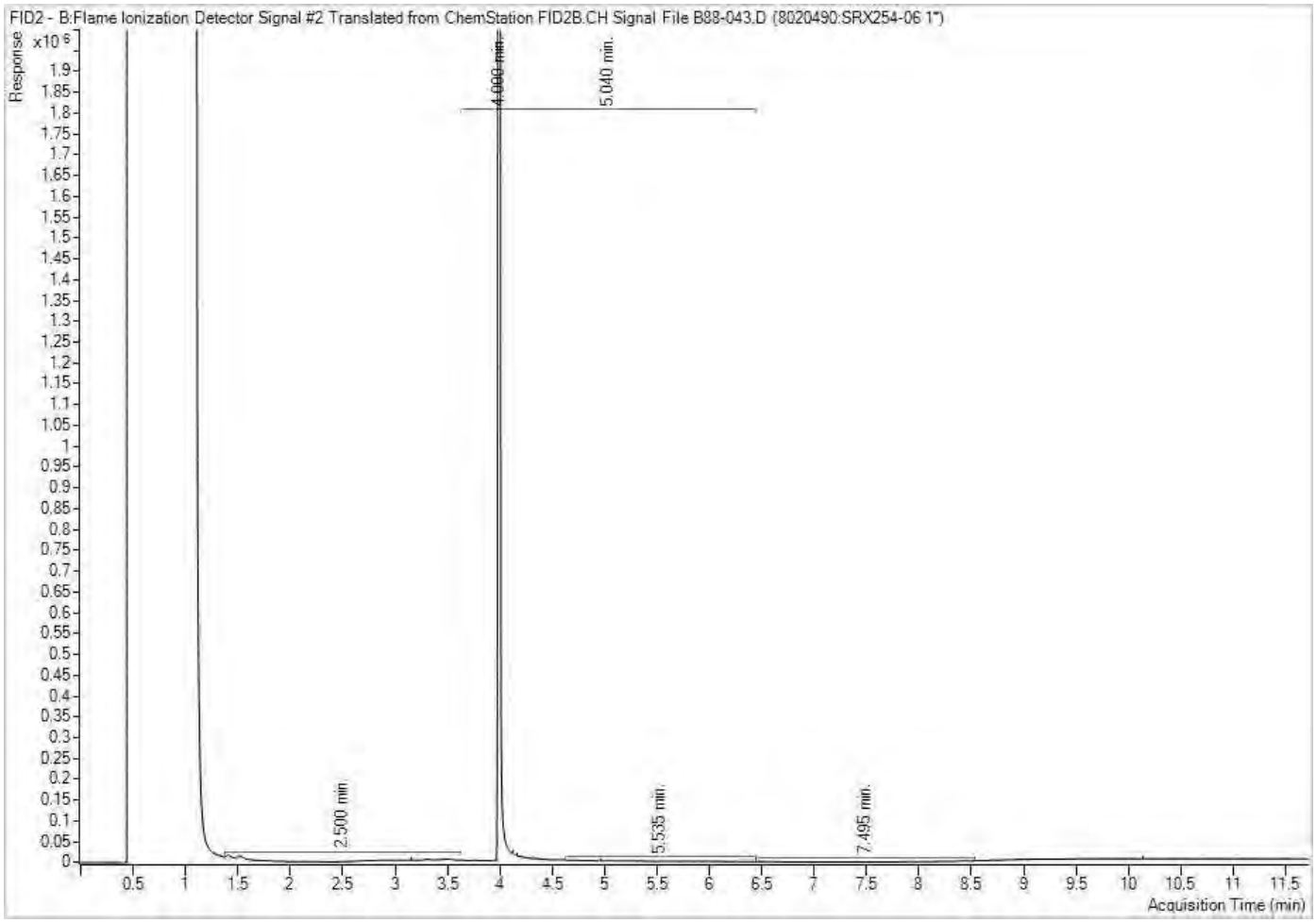
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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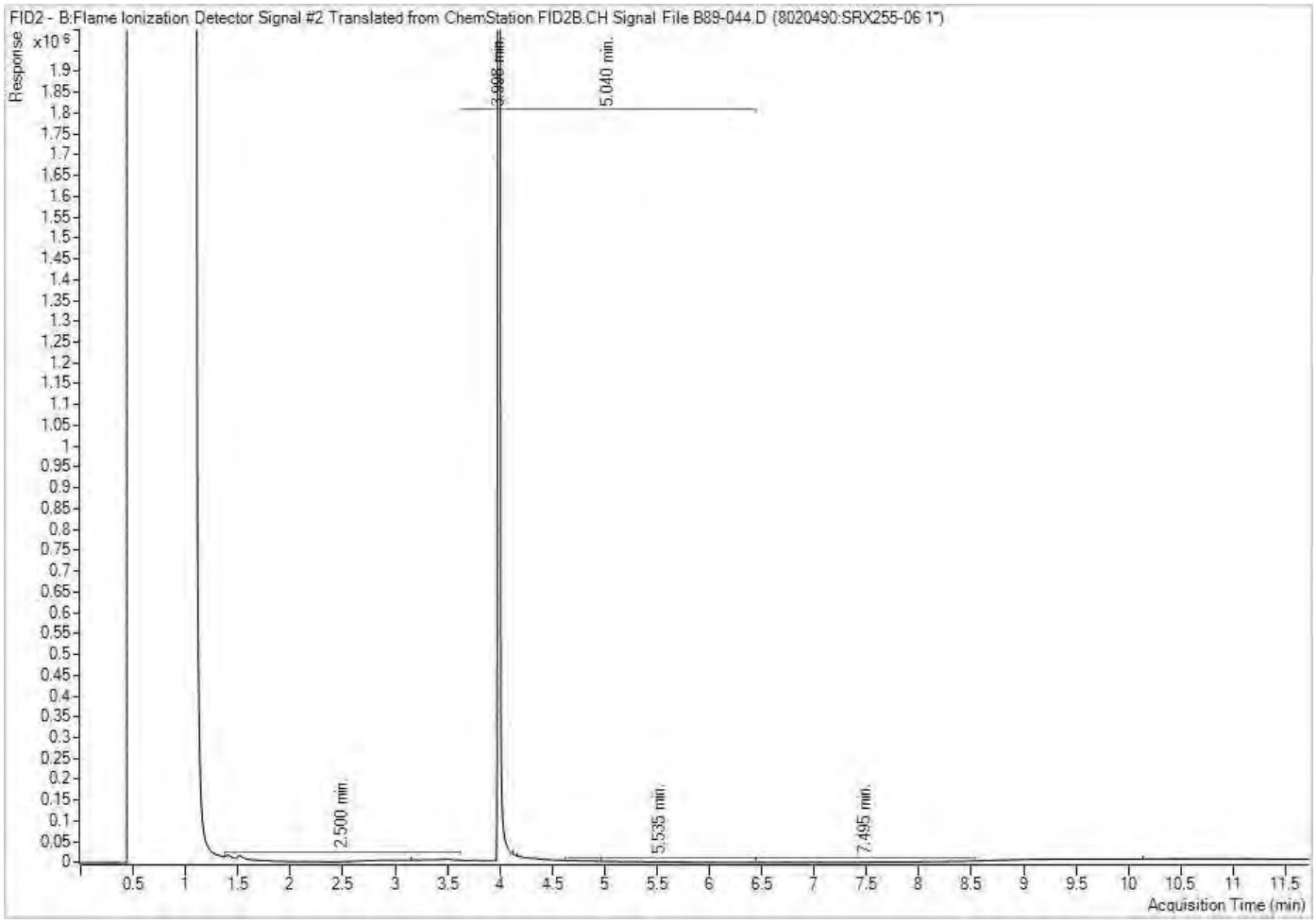
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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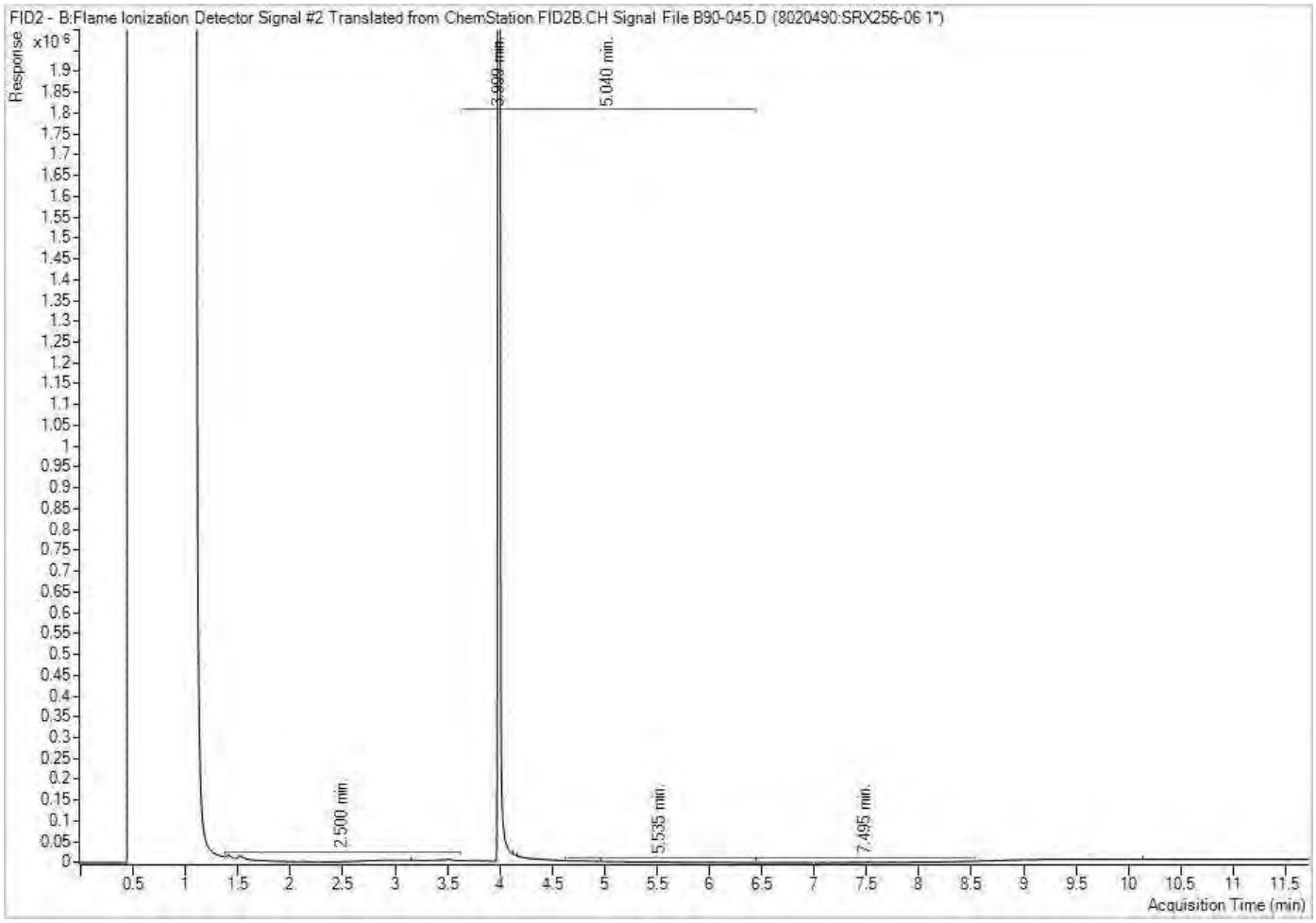
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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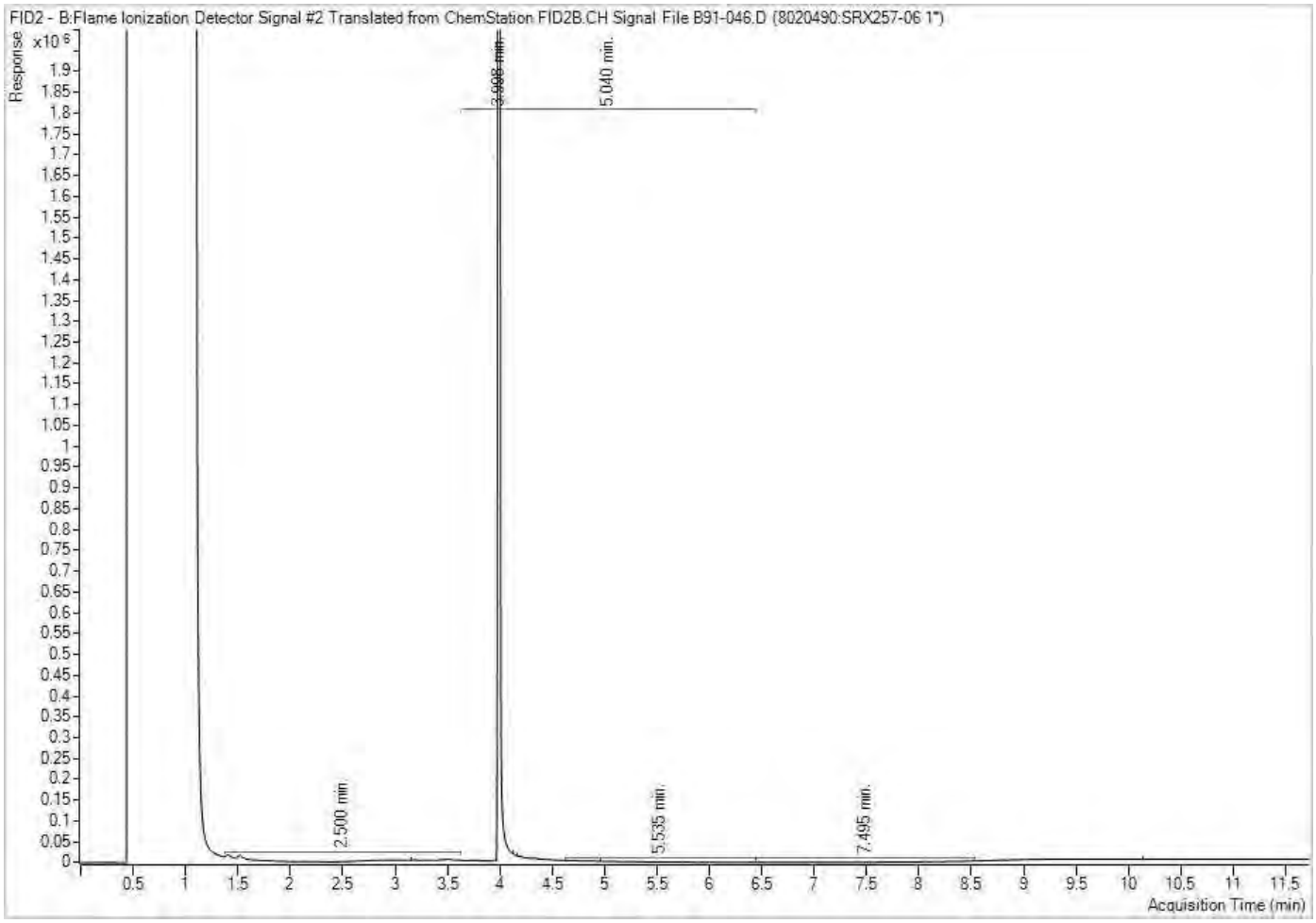
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7146405
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0295
Received: 2022/05/24, 16:10

Sample Matrix: Ground Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2022/05/31	CAM SOP-00301	EPA 8270D m
Chloride by Automated Colourimetry	5	N/A	2022/05/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	5	N/A	2022/05/27	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2022/05/26	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2022/05/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2022/05/28	2022/05/30	CAM SOP-00316	CCME PHC-CWS m
Mercury	5	2022/05/30	2022/05/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2022/05/30	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	5	2022/05/28	2022/05/29	CAM SOP-00318	EPA 8270D m

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.

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) 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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7146405
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0295

Received: 2022/05/24, 16:10

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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755

==========

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O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX286			SRX287			SRX287		
Sampling Date		2022/05/19 11:28			2022/05/18 13:16			2022/05/18 13:16		
COC Number		na			na			na		
	UNITS	4-MW218	RDL	QC Batch	4-MW224	RDL	QC Batch	4-MW224 Lab-Dup	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376	<1	1	8015376			
Dissolved Chloride (Cl-)	mg/L	240	3.0	8013743	65	1.0	8013758			
Metals										
Chromium (VI)	ug/L	<0.50	0.50	8013913	<0.50	0.50	8013913			
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899			
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	8015417	<0.50	0.50	8015417	<0.50	0.50	8015417
Dissolved Arsenic (As)	ug/L	<5.0	5.0	8015417	<1.0	1.0	8015417	<1.0	1.0	8015417
Dissolved Barium (Ba)	ug/L	17	10	8015417	42	2.0	8015417	42	2.0	8015417
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	8015417	<0.40	0.40	8015417	<0.40	0.40	8015417
Dissolved Boron (B)	ug/L	450	50	8015417	360	10	8015417	340	10	8015417
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	8015417	<0.090	0.090	8015417	<0.090	0.090	8015417
Dissolved Chromium (Cr)	ug/L	<25	25	8015417	<5.0	5.0	8015417	<5.0	5.0	8015417
Dissolved Cobalt (Co)	ug/L	7.5	2.5	8015417	1.2	0.50	8015417	1.2	0.50	8015417
Dissolved Copper (Cu)	ug/L	<4.5	4.5	8015417	2.5	0.90	8015417	2.3	0.90	8015417
Dissolved Lead (Pb)	ug/L	<2.5	2.5	8015417	<0.50	0.50	8015417	<0.50	0.50	8015417
Dissolved Molybdenum (Mo)	ug/L	5.9	2.5	8015417	11	0.50	8015417	11	0.50	8015417
Dissolved Nickel (Ni)	ug/L	10	5.0	8015417	3.2	1.0	8015417	3.2	1.0	8015417
Dissolved Selenium (Se)	ug/L	<10	10	8015417	<2.0	2.0	8015417	<2.0	2.0	8015417
Dissolved Silver (Ag)	ug/L	<0.45	0.45	8015417	<0.090	0.090	8015417	<0.090	0.090	8015417
Dissolved Sodium (Na)	ug/L	500000	500	8015417	160000	100	8015417	160000	100	8015417
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	8015417	<0.050	0.050	8015417	<0.050	0.050	8015417
Dissolved Uranium (U)	ug/L	24	0.50	8015417	9.1	0.10	8015417	8.8	0.10	8015417
Dissolved Vanadium (V)	ug/L	<2.5	2.5	8015417	<0.50	0.50	8015417	<0.50	0.50	8015417
Dissolved Zinc (Zn)	ug/L	<25	25	8015417	<5.0	5.0	8015417	<5.0	5.0	8015417

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX288			SRX289			SRX290		
Sampling Date		2022/05/19 12:16			2022/05/19 12:12			2022/05/19 11:24		
COC Number		na			na			na		
	UNITS	4-MW225	RDL	QC Batch	4-MW226	RDL	QC Batch	MW06	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	8015376	<1	1	8015376	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	1000	10	8015009	87	1.0	8013758	26	1.0	8013743
Metals										
Chromium (VI)	ug/L	<0.50	0.50	8013913	<0.50	0.50	8013913	<0.50	0.50	8013913
Mercury (Hg)	ug/L	<0.10	0.10	8021899	<0.10	0.10	8021899	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	8015417	<2.5	2.5	8015417	<0.50	0.50	8015417
Dissolved Arsenic (As)	ug/L	<5.0	5.0	8015417	<5.0	5.0	8015417	<1.0	1.0	8015417
Dissolved Barium (Ba)	ug/L	25	10	8015417	27	10	8015417	27	2.0	8015417
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	8015417	<2.0	2.0	8015417	<0.40	0.40	8015417
Dissolved Boron (B)	ug/L	400	50	8015417	370	50	8015417	25	10	8015417
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	8015417	<0.45	0.45	8015417	<0.090	0.090	8015417
Dissolved Chromium (Cr)	ug/L	<25	25	8015417	<25	25	8015417	<5.0	5.0	8015417
Dissolved Cobalt (Co)	ug/L	6.2	2.5	8015417	3.3	2.5	8015417	0.51	0.50	8015417
Dissolved Copper (Cu)	ug/L	<4.5	4.5	8015417	<4.5	4.5	8015417	2.0	0.90	8015417
Dissolved Lead (Pb)	ug/L	<2.5	2.5	8015417	<2.5	2.5	8015417	<0.50	0.50	8015417
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	8015417	7.0	2.5	8015417	0.73	0.50	8015417
Dissolved Nickel (Ni)	ug/L	13	5.0	8015417	6.4	5.0	8015417	2.4	1.0	8015417
Dissolved Selenium (Se)	ug/L	<10	10	8015417	<10	10	8015417	<2.0	2.0	8015417
Dissolved Silver (Ag)	ug/L	<0.45	0.45	8015417	<0.45	0.45	8015417	<0.090	0.090	8015417
Dissolved Sodium (Na)	ug/L	750000	500	8015417	390000	500	8015417	48000	100	8015417
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	8015417	<0.25	0.25	8015417	<0.050	0.050	8015417
Dissolved Uranium (U)	ug/L	32	0.50	8015417	37	0.50	8015417	3.2	0.10	8015417
Dissolved Vanadium (V)	ug/L	<2.5	2.5	8015417	<2.5	2.5	8015417	<0.50	0.50	8015417
Dissolved Zinc (Zn)	ug/L	<25	25	8015417	<25	25	8015417	<5.0	5.0	8015417

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SRX286	SRX287	SRX288	SRX289	SRX290		
Sampling Date		2022/05/19 11:28	2022/05/18 13:16	2022/05/19 12:16	2022/05/19 12:12	2022/05/19 11:24		
COC Number		na	na	na	na	na		
	UNITS	4-MW218	4-MW224	4-MW225	4-MW226	MW06	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	8012858
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	8020491
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	8020491
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8020491
Surrogate Recovery (%)								
D10-Anthracene	%	88	86	87	67	88		8020491
D14-Terphenyl (FS)	%	78	72	75	57	84		8020491
D8-Acenaphthylene	%	85	83	86	66	88		8020491

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		SRX286	SRX287	SRX288	SRX289	SRX290		
Sampling Date		2022/05/19 11:28	2022/05/18 13:16	2022/05/19 12:16	2022/05/19 12:12	2022/05/19 11:24		
COC Number		na	na	na	na	na		
	UNITS	4-MW218	4-MW224	4-MW225	4-MW226	MW06	RDL	QC Batch
BTEX & F1 Hydrocarbons								
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8021397
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8021397
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8021397
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8021397
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	8021397
Total Xylenes	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	8021397
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	8021397
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	8021397
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	8020490
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	8020490
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	8020490
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		8020490
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	101	99	99	100	102		8021397
4-Bromofluorobenzene	%	103	104	100	100	101		8021397
D10-o-Xylene	%	106	106	100	104	105		8021397
D4-1,2-Dichloroethane	%	111	111	112	109	107		8021397
o-Terphenyl	%	96	99	101	104	104		8020490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SRX286 **Collected:** 2022/05/19
Sample ID: 4-MW218 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013743	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8021397	N/A	2022/05/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX287 **Collected:** 2022/05/18
Sample ID: 4-MW224 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8021397	N/A	2022/05/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX287 Dup **Collected:** 2022/05/18
Sample ID: 4-MW224 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha

Bureau Veritas ID: SRX288 **Collected:** 2022/05/19
Sample ID: 4-MW225 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8021397	N/A	2022/05/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha

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TEST SUMMARY

Bureau Veritas ID: SRX288 **Collected:** 2022/05/19
Sample ID: 4-MW225 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX289 **Collected:** 2022/05/19
Sample ID: 4-MW226 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013758	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8021397	N/A	2022/05/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

Bureau Veritas ID: SRX290 **Collected:** 2022/05/19
Sample ID: MW06 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/05/31	Automated Statchk
Chloride by Automated Colourimetry	KONE	8013743	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013913	N/A	2022/05/27	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8021397	N/A	2022/05/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020490	2022/05/28	2022/05/30	Suleeqa Nurr
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015417	N/A	2022/05/30	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8020491	2022/05/28	2022/05/29	Jonghan Yoon

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GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	7.0°C
Package 3	8.0°C

Sample SRX286 [4-MW218] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample SRX288 [4-MW225] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample SRX289 [4-MW226] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8020490	o-Terphenyl	2022/05/29	105	60 - 130	107	60 - 130	103	%		
8020491	D10-Anthracene	2022/05/29	93	50 - 130	89	50 - 130	88	%		
8020491	D14-Terphenyl (FS)	2022/05/29	87	50 - 130	84	50 - 130	81	%		
8020491	D8-Acenaphthylene	2022/05/29	93	50 - 130	86	50 - 130	87	%		
8021397	1,4-Difluorobenzene	2022/05/29	96	70 - 130	96	70 - 130	103	%		
8021397	4-Bromofluorobenzene	2022/05/29	105	70 - 130	105	70 - 130	101	%		
8021397	D10-o-Xylene	2022/05/29	107	70 - 130	98	70 - 130	106	%		
8021397	D4-1,2-Dichloroethane	2022/05/29	104	70 - 130	96	70 - 130	109	%		
8013743	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	104	80 - 120	<1.0	mg/L	2.9	20
8013758	Dissolved Chloride (Cl-)	2022/05/26	105	80 - 120	105	80 - 120	<1.0	mg/L	0.20	20
8013913	Chromium (VI)	2022/05/27	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8015009	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.5	20
8015376	WAD Cyanide (Free)	2022/05/26	63 (1)	80 - 120	96	80 - 120	<1	ug/L	NC	20
8015417	Dissolved Antimony (Sb)	2022/05/30	107	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8015417	Dissolved Arsenic (As)	2022/05/30	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
8015417	Dissolved Barium (Ba)	2022/05/30	100	80 - 120	102	80 - 120	<2.0	ug/L	0.031	20
8015417	Dissolved Beryllium (Be)	2022/05/30	102	80 - 120	101	80 - 120	<0.40	ug/L	NC	20
8015417	Dissolved Boron (B)	2022/05/30	96	80 - 120	99	80 - 120	<10	ug/L	5.1	20
8015417	Dissolved Cadmium (Cd)	2022/05/30	102	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8015417	Dissolved Chromium (Cr)	2022/05/30	102	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8015417	Dissolved Cobalt (Co)	2022/05/30	99	80 - 120	98	80 - 120	<0.50	ug/L	1.6	20
8015417	Dissolved Copper (Cu)	2022/05/30	103	80 - 120	97	80 - 120	<0.90	ug/L	8.8	20
8015417	Dissolved Lead (Pb)	2022/05/30	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8015417	Dissolved Molybdenum (Mo)	2022/05/30	109	80 - 120	101	80 - 120	<0.50	ug/L	0.60	20
8015417	Dissolved Nickel (Ni)	2022/05/30	95	80 - 120	96	80 - 120	<1.0	ug/L	1.9	20
8015417	Dissolved Selenium (Se)	2022/05/30	101	80 - 120	98	80 - 120	<2.0	ug/L	NC	20
8015417	Dissolved Silver (Ag)	2022/05/30	86	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8015417	Dissolved Sodium (Na)	2022/05/30	NC	80 - 120	98	80 - 120	<100	ug/L	0.13	20
8015417	Dissolved Thallium (Tl)	2022/05/30	99	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8015417	Dissolved Uranium (U)	2022/05/30	98	80 - 120	96	80 - 120	<0.10	ug/L	3.5	20
8015417	Dissolved Vanadium (V)	2022/05/30	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015417	Dissolved Zinc (Zn)	2022/05/30	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
8020490	F2 (C10-C16 Hydrocarbons)	2022/05/30	114	60 - 130	98	60 - 130	<100	ug/L	NC	30
8020490	F3 (C16-C34 Hydrocarbons)	2022/05/30	113	60 - 130	109	60 - 130	<200	ug/L	NC	30
8020490	F4 (C34-C50 Hydrocarbons)	2022/05/30	110	60 - 130	110	60 - 130	<200	ug/L	NC	30
8020491	1-Methylnaphthalene	2022/05/29	97	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8020491	2-Methylnaphthalene	2022/05/29	90	50 - 130	81	50 - 130	<0.050	ug/L	NC	30
8020491	Acenaphthene	2022/05/29	98	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Acenaphthylene	2022/05/29	92	50 - 130	84	50 - 130	<0.050	ug/L	NC	30
8020491	Anthracene	2022/05/29	96	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(a)anthracene	2022/05/29	103	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(a)pyrene	2022/05/29	88	50 - 130	83	50 - 130	<0.0090	ug/L	NC	30
8020491	Benzo(b/j)fluoranthene	2022/05/29	98	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(g,h,i)perylene	2022/05/29	98	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8020491	Benzo(k)fluoranthene	2022/05/29	93	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
8020491	Chrysene	2022/05/29	104	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8020491	Dibenzo(a,h)anthracene	2022/05/29	84	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
8020491	Fluoranthene	2022/05/29	109	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8020491	Fluorene	2022/05/29	95	50 - 130	88	50 - 130	<0.050	ug/L	NC	30
8020491	Indeno(1,2,3-cd)pyrene	2022/05/29	93	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8020491	Naphthalene	2022/05/29	80	50 - 130	76	50 - 130	<0.050	ug/L	NC	30
8020491	Phenanthrene	2022/05/29	100	50 - 130	95	50 - 130	<0.030	ug/L	NC	30
8020491	Pyrene	2022/05/29	106	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8021397	Benzene	2022/05/29	99	50 - 140	103	50 - 140	<0.20	ug/L	NC	30
8021397	Ethylbenzene	2022/05/29	111	50 - 140	116	50 - 140	<0.20	ug/L	NC	30
8021397	F1 (C6-C10) - BTEX	2022/05/29					<25	ug/L		
8021397	F1 (C6-C10)	2022/05/29	88	60 - 140	89	60 - 140	<25	ug/L		
8021397	o-Xylene	2022/05/29	106	50 - 140	109	50 - 140	<0.20	ug/L	NC	30
8021397	p+m-Xylene	2022/05/29	103	50 - 140	109	50 - 140	<0.40	ug/L	NC	30
8021397	Toluene	2022/05/29	94	50 - 140	98	50 - 140	<0.20	ug/L	NC	30
8021397	Total Xylenes	2022/05/29					<0.40	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8021899	Mercury (Hg)	2022/05/30	93	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

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.

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.

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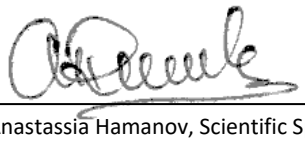
VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

24-May-22 16:10
Kudrat Bajwa
C2E0295

TPS ENV-908

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	Terrapex Environmental LTD	Company:	Terrapex Environmental LTD	Quotation #:	C20955
Contact Name:	Accounts Payable	Contact Name:	Roy Yu	P.O. #/ AFE#:	
Street Address:	95 Scarsdale Rd	Street Address:	95 Scarsdale Rd	Project #:	CT3243.01
City: Toronto Prov: ON Postal Code:	M3B2R7	City: Toronto Prov: ON Postal Code:	M3B2R7	Site #:	
Phone:	416-245-0011	Phone:	416-245-0011 x 229	Site Location:	
Email:	accounts.payable@terrapex.com	Email:	R.yu@terrapex.com	Site Location Province:	
Copies:		Copies:		Sampled By:	JF, AS, AP

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☑ Table 5 ☑ Res/Park ☐ Ind/Comm ☐ Agri/other ☐ Med/Fine ☑ Course ☑ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ WQO ☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☐

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Regular Turnaround Time (TAT)
☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 ICPMS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10 PAHs	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	4-MW218	22	05	19	11	28	Water - Ground	x			x	x		x			x											10		
2	4-MW224	22	05	18	13	16	Water - Ground	x			x	x		x			x											10		
3	4-MW225	22	05	19	12	16	Water - Ground	x			x	x		x			x											10		
4	4-MW226	22	05	19	12	12	Water - Ground	x			x	x		x			x											10		
5	MW06	22	05	19	11	24	Water - Ground	x			x	x		x			x											10		
6																													
7																													
8																													
9																													
10																													
11																													
12																													

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special Instructions
1	Jesse Fortier	22	05	19	17	00	1	22	05	24	16	10	
2							2						

C2E0295

Affix Job Label Here

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/Herb 1 of 2	Pest/Herb 2 of 2	SVOC/ABN 1 of 2	SVOC/ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	4-MW218				TS																		TS	TS		TS	TS	TS		
2	4-MW224				TS																		TS	TS		TS	TS	TS		
3	4MW 226																						TS	TS		TS	TS	TS		
4	MW06				TS																		TS	TS		TS	TS	TS		
5																														
6																														
7																														
8																														
9																														
10																														

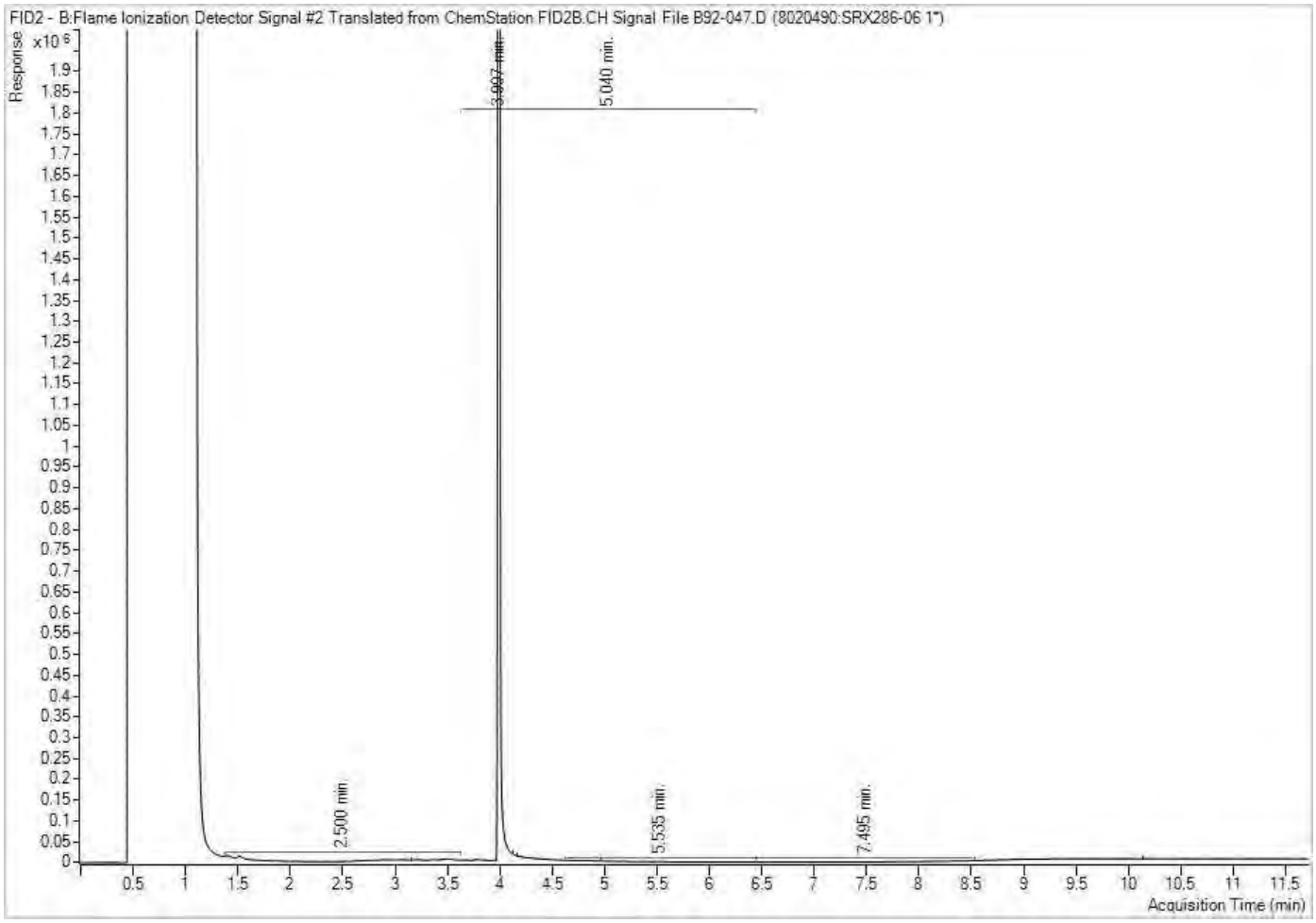
Comments:

Legend:

P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

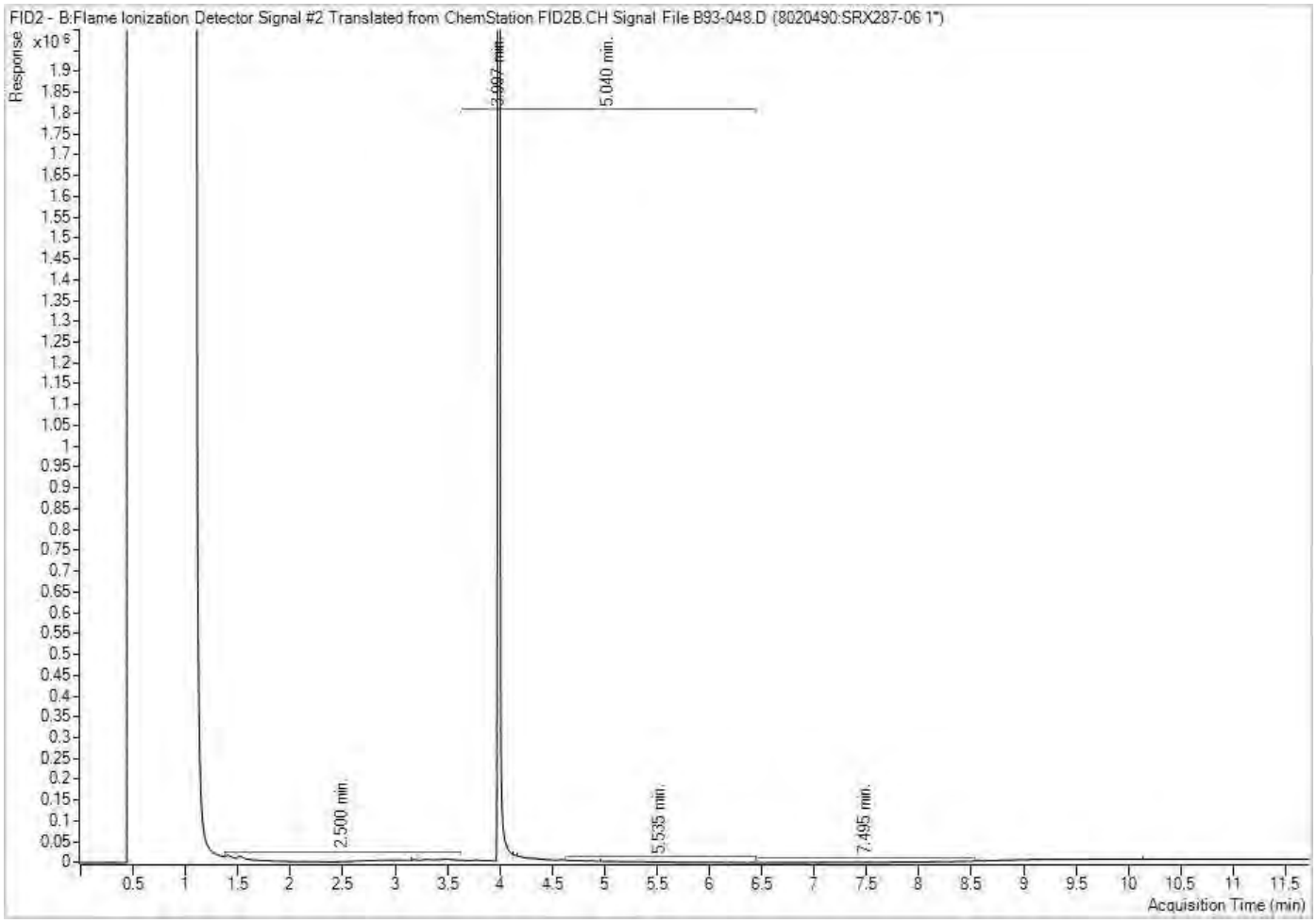
Recorded By: (signature/print)

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



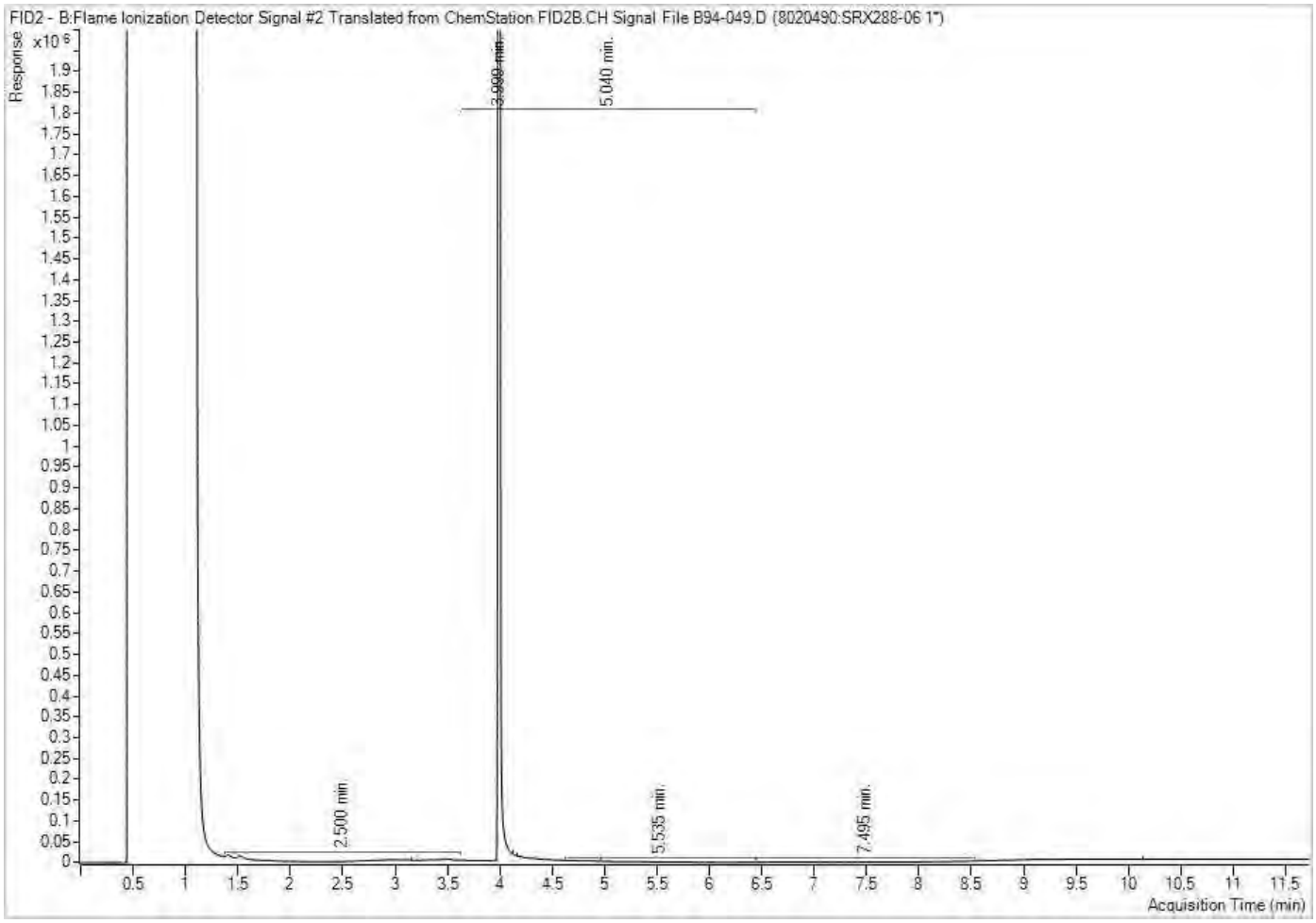
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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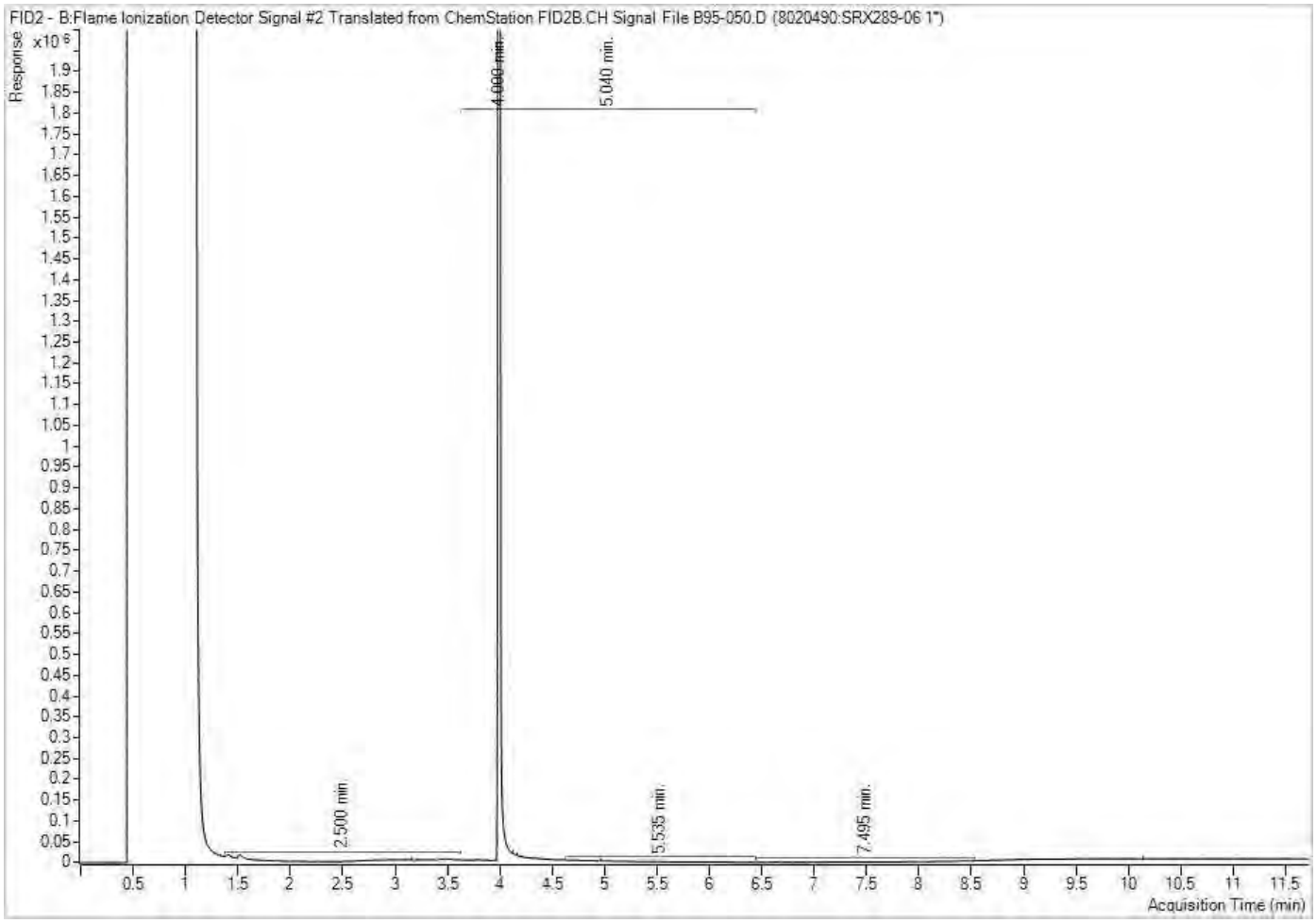
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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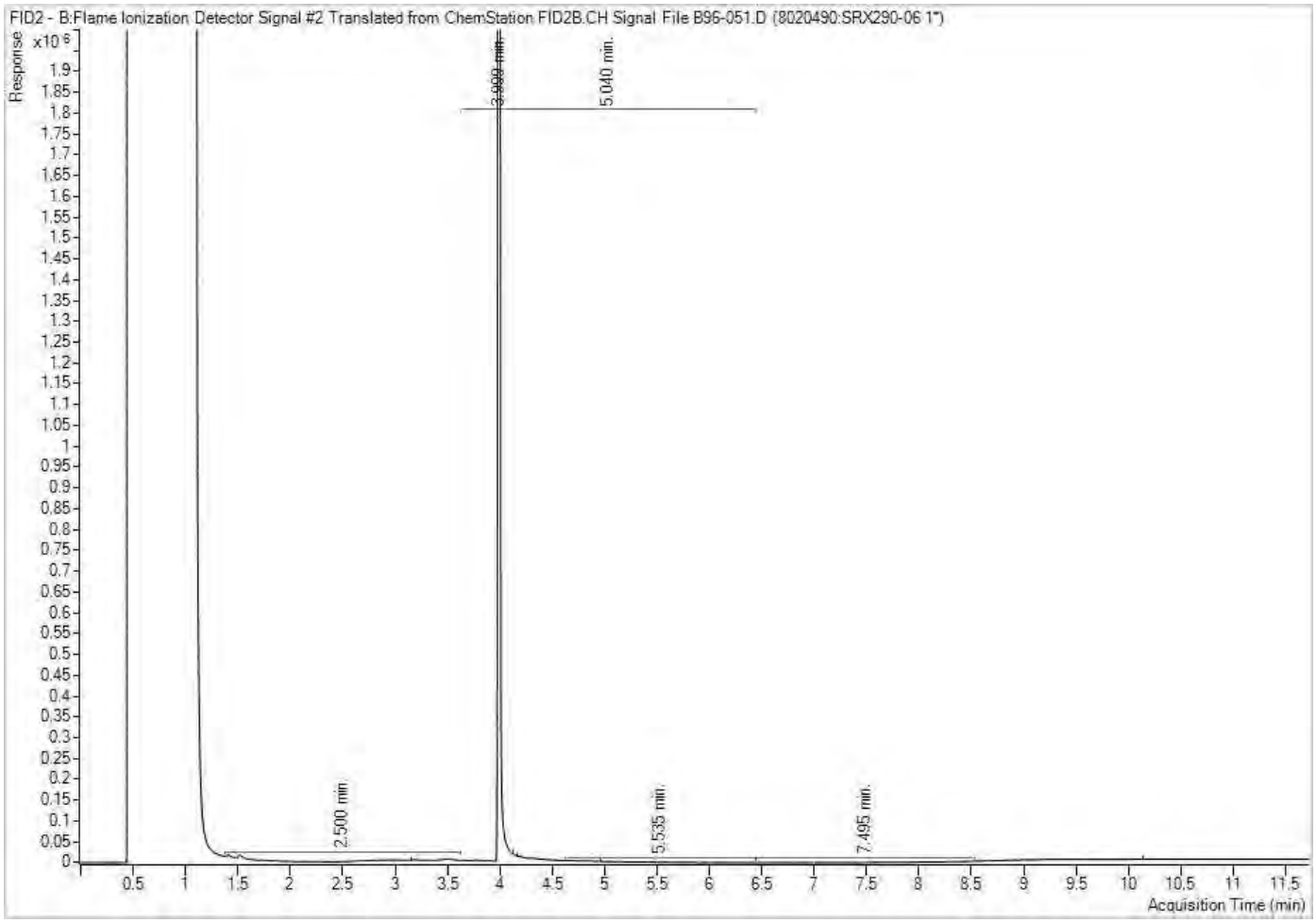
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7145410
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0300
Received: 2022/05/24, 16:10

Sample Matrix: Ground Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chloride by Automated Colourimetry	3	N/A	2022/05/26	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	3	N/A	2022/05/26	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	3	N/A	2022/05/26	CAM SOP-00457	OMOE E3015 m
Mercury	3	2022/05/30	2022/05/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	3	N/A	2022/05/26	CAM SOP-00447	EPA 6020B m

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	1	N/A	2022/05/29		EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2022/05/27	CAM SOP-00228	EPA 8260C m

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.

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

Your Project #: CT3243.01
Your C.O.C. #: na

Attention: Roy Yu

Terrapex Environmental Ltd
90 Scarsdale Rd
Toronto, ON
CANADA M3B 2R7

Report Date: 2022/05/31
Report #: R7145410
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E0300
Received: 2022/05/24, 16:10

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Kudrat Bajwa, B.Sc., Project Manager
Email: Kudrat.Bajwa@bureauveritas.com
Phone# (905)817-5755
==========
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For Service Group specific validation please refer to the Validation Signature Page.

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		SRX334		SRX335		SRX336		
Sampling Date		2022/05/19 10:42		2022/05/19 10:00		2022/05/19 10:00		
COC Number		na		na		na		
	UNITS	5-MW220	RDL	5-MW222	RDL	MW3000	RDL	QC Batch
Inorganics								
WAD Cyanide (Free)	ug/L	<1	1	<1	1	<1	1	8015376
Dissolved Chloride (Cl-)	mg/L	120	1.0	220	3.0	220	2.0	8015009
Metals								
Chromium (VI)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	8013917
Mercury (Hg)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	8021899
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	8015411
Dissolved Arsenic (As)	ug/L	2.4	1.0	6.1	1.0	6.3	1.0	8015411
Dissolved Barium (Ba)	ug/L	21	2.0	11	2.0	11	2.0	8015411
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	8015411
Dissolved Boron (B)	ug/L	500	10	520	10	510	10	8015411
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	8015411
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	8015411
Dissolved Cobalt (Co)	ug/L	2.8	0.50	1.5	0.50	1.5	0.50	8015411
Dissolved Copper (Cu)	ug/L	3.3	0.90	<0.90	0.90	<0.90	0.90	8015411
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	8015411
Dissolved Molybdenum (Mo)	ug/L	8.8	0.50	14	0.50	14	0.50	8015411
Dissolved Nickel (Ni)	ug/L	4.0	1.0	2.2	1.0	2.2	1.0	8015411
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	8015411
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	8015411
Dissolved Sodium (Na)	ug/L	390000	100	380000	100	380000	100	8015411
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	8015411
Dissolved Uranium (U)	ug/L	5.9	0.10	1.9	0.10	1.9	0.10	8015411
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	8015411
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	8015411

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		SRX337		
Sampling Date		2022/05/19 10:30		
COC Number		na		
	UNITS	FIELD BLANK	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	8012859
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	8012918
Benzene	ug/L	<0.20	0.20	8012918
Bromodichloromethane	ug/L	<0.50	0.50	8012918
Bromoform	ug/L	<1.0	1.0	8012918
Bromomethane	ug/L	<0.50	0.50	8012918
Carbon Tetrachloride	ug/L	<0.19	0.19	8012918
Chlorobenzene	ug/L	<0.20	0.20	8012918
Chloroform	ug/L	<0.20	0.20	8012918
Dibromochloromethane	ug/L	<0.50	0.50	8012918
1,2-Dichlorobenzene	ug/L	<0.40	0.40	8012918
1,3-Dichlorobenzene	ug/L	<0.40	0.40	8012918
1,4-Dichlorobenzene	ug/L	<0.40	0.40	8012918
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	8012918
1,1-Dichloroethane	ug/L	<0.20	0.20	8012918
1,2-Dichloroethane	ug/L	<0.49	0.49	8012918
1,1-Dichloroethylene	ug/L	<0.20	0.20	8012918
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	8012918
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	8012918
1,2-Dichloropropane	ug/L	<0.20	0.20	8012918
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	8012918
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	8012918
Ethylbenzene	ug/L	<0.20	0.20	8012918
Ethylene Dibromide	ug/L	<0.19	0.19	8012918
Hexane	ug/L	<1.0	1.0	8012918
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	8012918
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	8012918
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	8012918
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	8012918
Styrene	ug/L	<0.40	0.40	8012918

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		SRX337		
Sampling Date		2022/05/19 10:30		
COC Number		na		
	UNITS	FIELD BLANK	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	8012918
1,1,2,2-Tetrachloroethane	ug/L	<0.40	0.40	8012918
Tetrachloroethylene	ug/L	<0.20	0.20	8012918
Toluene	ug/L	<0.20	0.20	8012918
1,1,1-Trichloroethane	ug/L	<0.20	0.20	8012918
1,1,2-Trichloroethane	ug/L	<0.40	0.40	8012918
Trichloroethylene	ug/L	<0.20	0.20	8012918
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	8012918
Vinyl Chloride	ug/L	<0.20	0.20	8012918
p+m-Xylene	ug/L	<0.20	0.20	8012918
o-Xylene	ug/L	<0.20	0.20	8012918
Total Xylenes	ug/L	<0.20	0.20	8012918
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	87		8012918
D4-1,2-Dichloroethane	%	117		8012918
D8-Toluene	%	93		8012918

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

TEST SUMMARY

Bureau Veritas ID: SRX334 **Collected:** 2022/05/19
Sample ID: 5-MW220 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013917	N/A	2022/05/26	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti

Bureau Veritas ID: SRX335 **Collected:** 2022/05/19
Sample ID: 5-MW222 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013917	N/A	2022/05/26	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti

Bureau Veritas ID: SRX336 **Collected:** 2022/05/19
Sample ID: MW3000 **Shipped:**
Matrix: Ground Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	8015009	N/A	2022/05/26	Alina Dobreanu
Chromium (VI) in Water	IC	8013917	N/A	2022/05/26	Theodora LI
Free (WAD) Cyanide	SKAL/CN	8015376	N/A	2022/05/26	Nimarta Singh
Mercury	CV/AA	8021899	2022/05/30	2022/05/30	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8015411	N/A	2022/05/26	Prempal Bhatti

Bureau Veritas ID: SRX337 **Collected:** 2022/05/19
Sample ID: FIELD BLANK **Shipped:**
Matrix: Water **Received:** 2022/05/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/29	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8012918	N/A	2022/05/27	Manpreet Sarao

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GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	7.0°C
Package 3	8.0°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8012918	4-Bromofluorobenzene	2022/05/27	102	70 - 130	103	70 - 130	93	%		
8012918	D4-1,2-Dichloroethane	2022/05/27	104	70 - 130	105	70 - 130	114	%		
8012918	D8-Toluene	2022/05/27	108	70 - 130	110	70 - 130	95	%		
8012918	1,1,1,2-Tetrachloroethane	2022/05/27	101	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8012918	1,1,1-Trichloroethane	2022/05/27	106	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
8012918	1,1,2,2-Tetrachloroethane	2022/05/27	98	70 - 130	101	70 - 130	<0.40	ug/L	NC	30
8012918	1,1,2-Trichloroethane	2022/05/27	106	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
8012918	1,1-Dichloroethane	2022/05/27	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8012918	1,1-Dichloroethylene	2022/05/27	103	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8012918	1,2-Dichlorobenzene	2022/05/27	98	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
8012918	1,2-Dichloroethane	2022/05/27	101	70 - 130	103	70 - 130	<0.49	ug/L	3.2	30
8012918	1,2-Dichloropropane	2022/05/27	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
8012918	1,3-Dichlorobenzene	2022/05/27	97	70 - 130	95	70 - 130	<0.40	ug/L	NC	30
8012918	1,4-Dichlorobenzene	2022/05/27	114	70 - 130	112	70 - 130	<0.40	ug/L	NC	30
8012918	Acetone (2-Propanone)	2022/05/27	107	60 - 140	109	60 - 140	<10	ug/L	NC	30
8012918	Benzene	2022/05/27	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8012918	Bromodichloromethane	2022/05/27	104	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
8012918	Bromoform	2022/05/27	102	70 - 130	105	70 - 130	<1.0	ug/L	NC	30
8012918	Bromomethane	2022/05/27	104	60 - 140	104	60 - 140	<0.50	ug/L	NC	30
8012918	Carbon Tetrachloride	2022/05/27	103	70 - 130	103	70 - 130	<0.19	ug/L	NC	30
8012918	Chlorobenzene	2022/05/27	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8012918	Chloroform	2022/05/27	101	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8012918	cis-1,2-Dichloroethylene	2022/05/27	105	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
8012918	cis-1,3-Dichloropropene	2022/05/27	101	70 - 130	99	70 - 130	<0.30	ug/L	NC	30
8012918	Dibromochloromethane	2022/05/27	101	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
8012918	Dichlorodifluoromethane (FREON 12)	2022/05/27	99	60 - 140	99	60 - 140	<1.0	ug/L	NC	30
8012918	Ethylbenzene	2022/05/27	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8012918	Ethylene Dibromide	2022/05/27	101	70 - 130	103	70 - 130	<0.19	ug/L	NC	30
8012918	Hexane	2022/05/27	112	70 - 130	112	70 - 130	<1.0	ug/L	NC	30
8012918	Methyl Ethyl Ketone (2-Butanone)	2022/05/27	120	60 - 140	122	60 - 140	<10	ug/L	NC	30
8012918	Methyl Isobutyl Ketone	2022/05/27	112	70 - 130	116	70 - 130	<5.0	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8012918	Methyl t-butyl ether (MTBE)	2022/05/27	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8012918	Methylene Chloride(Dichloromethane)	2022/05/27	103	70 - 130	103	70 - 130	<2.0	ug/L	NC	30
8012918	o-Xylene	2022/05/27	90	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8012918	p+m-Xylene	2022/05/27	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8012918	Styrene	2022/05/27	86	70 - 130	92	70 - 130	<0.40	ug/L	NC	30
8012918	Tetrachloroethylene	2022/05/27	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8012918	Toluene	2022/05/27	102	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8012918	Total Xylenes	2022/05/27					<0.20	ug/L	NC	30
8012918	trans-1,2-Dichloroethylene	2022/05/27	104	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
8012918	trans-1,3-Dichloropropene	2022/05/27	113	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
8012918	Trichloroethylene	2022/05/27	103	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8012918	Trichlorofluoromethane (FREON 11)	2022/05/27	105	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
8012918	Vinyl Chloride	2022/05/27	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8013917	Chromium (VI)	2022/05/26	100	80 - 120	100	80 - 120	<0.50	ug/L	1.6	20
8015009	Dissolved Chloride (Cl-)	2022/05/26	NC	80 - 120	105	80 - 120	<1.0	mg/L	3.5	20
8015376	WAD Cyanide (Free)	2022/05/26	63 (1)	80 - 120	96	80 - 120	<1	ug/L	NC	20
8015411	Dissolved Antimony (Sb)	2022/05/26	108	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8015411	Dissolved Arsenic (As)	2022/05/26	105	80 - 120	101	80 - 120	<1.0	ug/L	4.3	20
8015411	Dissolved Barium (Ba)	2022/05/26	107	80 - 120	100	80 - 120	<2.0	ug/L	0.76	20
8015411	Dissolved Beryllium (Be)	2022/05/26	113	80 - 120	105	80 - 120	<0.40	ug/L	NC	20
8015411	Dissolved Boron (B)	2022/05/26	113	80 - 120	106	80 - 120	<10	ug/L	5.2	20
8015411	Dissolved Cadmium (Cd)	2022/05/26	105	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Chromium (Cr)	2022/05/26	104	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
8015411	Dissolved Cobalt (Co)	2022/05/26	106	80 - 120	101	80 - 120	<0.50	ug/L	2.7	20
8015411	Dissolved Copper (Cu)	2022/05/26	111	80 - 120	99	80 - 120	<0.90	ug/L	1.2	20
8015411	Dissolved Lead (Pb)	2022/05/26	98	80 - 120	99	80 - 120	<0.50	ug/L	0.59	20
8015411	Dissolved Molybdenum (Mo)	2022/05/26	114	80 - 120	100	80 - 120	<0.50	ug/L	0.92	20
8015411	Dissolved Nickel (Ni)	2022/05/26	100	80 - 120	99	80 - 120	<1.0	ug/L	3.2	20
8015411	Dissolved Selenium (Se)	2022/05/26	102	80 - 120	104	80 - 120	<2.0	ug/L	4.5	20
8015411	Dissolved Silver (Ag)	2022/05/26	83	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8015411	Dissolved Sodium (Na)	2022/05/26	90	80 - 120	104	80 - 120	<100	ug/L	0.18	20

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