November, 2017

FINAL REPORT

Phase II Environmental Site Assessment, Brant Street and James Street, Burlington, Ontario

Submitted to:
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REPORT

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1.0 INTRODUCTION

Golder Associates Ltd. ("Golder") was retained by Reserve Properties Ltd. ("Reserve" or the "Client") to conduct a Phase II Environmental Site Assessment ("Phase II ESA") at the property located at the southeast corner of Brant Street and James Street, in Burlington, Ontario (the "Site").

Figure 1 indicates the location of the Site.

2.0 BACKGROUND

Golder completed a Phase I Environmental Site Assessment ("ESA") concurrent with the Phase II investigation, the findings of which are included in the following:

- "*Phase I Environmental Site Assessment, Brant Street and John Street, Burlington, Ontario*", which was prepared for Reserve and dated November, 2017 (the "2017 Phase I ESA").

Based on the 2017 Phase I ESA, the Site currently consists of a 0.465 acre parcel of land, developed with several interconnected two-storey commercial buildings with a total area of approximately 35,000 ft^2. There are several basement areas and crawl spaces beneath the Site buildings. The Site buildings are occupied by The Bent Spoon (restaurant), Kelly's Bakery (bakery), Blossom City Chinese Restaurant (restaurant), Schmid Jewellery and Elizabeth Interiors (furniture store). It is noted that Elizabeth Interiors occupied the majority of the Site building areas, however was not in use at the time of the Site visit, and primarily vacant. The Site buildings occupied the majority of the Site area, with the exception of a paved-driveway located south of 448 John Street, leading to the rear of 403 Brant Street.

During the 2017 Phase I ESA, the following issues of potential environmental concern ("IPECs") were identified in association with the Phase I Property:

- The former presence of several fuel oil aboveground storage tanks ("ASTs") at the Site at 403, 409 and 413 Brant Street;
- The existing presence of four fuel oil ASTs in the basements of 409 Brant Street and 2012 James Street;
- The former presence of a fuel company at 448 John Street (now 450 John Street) during the 1960s and 1970s;
- The former presence of an automotive repair shop on the north central portion of the Site, fronting James Street (now part of 409 Brant Street) in the 1920s and 1930s;
- The former presence of underground storage tanks ("USTs") located 20 and 80 m northwest of the Site, as well as former tanks located 55 m, 80 m, and 100 m north of the Site;
- The former presence of a gasoline service station and automotive repair shop at 455 John Street (approximately 20 m east of the Site) between the 1960s and 1990s;
- The former presence of a gasoline service station at 391 & 393 Brant Street during the 1960s and 1970s;

- The former presence of a dry-cleaning facility at 2009 James Street (approximately 20 m north of the Site) in the 1960s and 1970s;
- The former presence of an automotive repair facility at 2011 James Street (approximately 20 m north of the Site) in the 1980s; and,
- The former presence of a dry-cleaning facility at 427 Brant Street (approximately 40 m north of the Site) in the early 2000s.

3.0 OBJECTIVES AND SCOPE OF WORK

The objective of the Phase II ESA was to assess the soil and shallow groundwater quality in the general vicinity of the IPECs identified in association with the Phase I Property.

The following tasks were carried out:

- Preparation and implementation of a health and safety plan;
- Identification of buried services at the Site by the local public utilities and the clearance of the drilling locations via private locator;
- Advancement of six boreholes (BH17-01 to BH17-06) at the Site (ranged out at the Site for the investigation of the IPECs reported in the Phase I ESA);
- Submission of soil samples collected from the boreholes for laboratory analysis of petroleum hydrocarbons fractions F1 to F4 ("PHC F1-F4"), volatile organic compounds ("VOCs"), and polycyclic aromatic hydrocarbons ("PAHs");
- Completion of the six boreholes as groundwater monitoring wells (MW17-01 to MW17-06);
- Completion of one groundwater monitoring event, which included the measurement of water levels, well development, and groundwater purging and sampling;
- Submission of groundwater samples for laboratory analysis of one or more of: PHC F1-F4, VOCs and PAHs; and
- Preparation of this Phase II ESA report which documents the methods and findings of the investigation.

4.0 METHOD OF INVESTIGATION

The following sections describe the field investigation methodology employed during the subsurface investigation carried out at the Site. The fieldwork was carried between October 23, 2017 and November 1, 2017. The fieldwork was carried out and/or overseen by members of Golder's Environmental Division staff. Golder retained LandShark Drilling ("LandShark") for borehole drilling and monitoring well installation. LandShark is licensed as a well contractor by the Ontario Ministry of the Environment and Climate Change ("MOECC").

4.1 Health and Safety

As indicated above, prior to initiating the fieldwork, Golder developed and implemented Site-specific protocols to protect the health and safety of its employees and subcontractors through the preparation of a Site-specific Health and Safety Plan. An assessment of potential health and safety hazards at the Site and those associated with the proposed work was completed each day of the field program. A health and safety tailgate meeting was held with Golder's subcontractors each day prior to completion of the field work. Additionally, prior to drilling, Golder completed utility clearances at the Site.

4.2 Borehole Advancement and Soil Sampling

Drilling completion and the monitoring well installation was carried out between October 25 and 26, 2017. Six boreholes (BH17-01 to BH17-06) were advanced to soil overburden depths ranging from 1.22 metres ("m") to 2.69 m below ground surface ("bgs"). It is noted that BH17-01 through BH17-03 and BH17-5 were drilled in basements, approximately 1.88 m below grade. BH17-04 and BH17-06 were drilled from existing grade (ground surface). All measurements are taken from each of the boreholes' relative ground surface (i.e., BH17-01 is measured from the top of the basement slab, whereas BH17-04 is measured from the existing floor surface and BH17-06 was measured from the exterior ground surface.

Each borehole was terminated based on practical sampler refusal. Drilling was conducted by LandShark using limited access hydraulic drilling equipment. Cuttings from the boreholes were placed in drums during the investigation, and were subsequently removed from the Site by LandShark. The locations of the boreholes were determined based on the Phase I ESA IPEC locations and accessible areas based on the service locates. The approximate locations of the boreholes are shown on Figure 2. Record of Borehole sheets are included in Appendix A.

During drilling, soil samples were collected at regular depth intervals for the duration of each borehole. A portion of each soil sample was placed in a sealed plastic bag for headspace screening, as well as laboratory supplied sample jars. Sample jars were stored on ice in a cooler until delivered, under chain-of-custody documentation, to the analytical laboratory for testing. Bagged samples were subsequently screened using an RKI Eagle II combustible gas and organic vapour monitor, calibrated with Hexane and Isobutylene Gasses and operated in Methane Elimination Mode as per the manufacturers specifications. Headspace readings were taken in the plastic soil sample bags' headspace shortly after sample collection. Details of the conditions encountered in the boreholes are presented on the Record of Borehole sheets included as Appendix A.

Soil samples were submitted to Maxxam Analytics ("Maxxam") for laboratory analysis of PHC F1-F4, PAHs and VOCs. Selection of samples for analysis was based on the results of the headspace screening and conditions encountered in the boreholes.

The Laboratory Certificate of Analysis ("COA") for soil is provided in Appendix B. Table 1 provides a summary of soil samples submitted for analysis. Figure 2 indicates the borehole locations.

Table 1: Summary of Soil Samples Submitted for Laboratory Analysis

Sample Location	Sample ID	Headspace Concentration (ppm) Sample Description		Sample Depth (mbgs)	Soil Type	Parameters Analyzed
		Combustible Vapours	Organic Vapours			
BH17-1	SS1	30	0	0.0-0.6	(CL) Silty CLAY	VOCs, PAHs, PHCs (F1 –F4) and BTEX
	SS2	10	0	0.6-1.3	(CL) CLAY lense	
BH17-2	SS1	15	5	0.0-0.3	(CL) Silty CLAY	
	SS2	0	5	0.3-1.2	(CL) Silty CLAY	
BH17-3	SS1	0	0	0.0-0.5	(CL) Silty CLAY	
	SS2	0	0	0.5-1.2	(CL) Silty CLAY	
	SS3	20	5	1.2-1.4	(CL) Silty CLAY	
BH17-4	SS1	5	20	0.0-0.6	(CL) Silty CLAY	
	SS2	45	90	0.6-1.2	(CL) Silty CLAY	
BH17-5	SS1	0	0	0.0-0.6	(CL) Silty SAND - FILL	
	SS2	0	0	0.6-1.2	(SP) SAND - FILL	
	SS3	0	0	1.2-2.2	(CL) Silty CLAY	
	SS4	0	0	2.2-2.4	(CL) Silty CLAY	
BH17-6	SS1	0	0	0.0-0.6	(SW) SAND	
	SS2	0	0	0.6-1.0	(SW) SAND and GRAVEL	
	SS3	0	0	1.0-2.0	(CL) SILTY CLAY	
	SS4	20	50	2.0-2.7	(CL) SILTY CLAY	

Notes:
m bgs = meters below ground surface
ppm = parts per million
PHCs F1-F4 = petroleum hydrocarbon fractions F1 to F4
VOCs = volatile organic compounds
PAHs = polycyclic aromatic hydrocarbons

4.3 Monitoring Well Installation and Groundwater Sampling

Boreholes BH17-01 to BH17-06 were completed as monitoring wells constructed with 0.025 m (1-inch) PVC pipe, with the well screen intersecting the anticipated groundwater table. The annulus surrounding the screened portion of each well was filled with silica filter sand. The monitoring wells were completed with flush-mount protective casings set in concrete and sealed with bentonite from the top of the sand pack up to the

base of the concrete around the base of the well casings. The riser pipe was sealed with a J-plug. Details of the monitoring well installation are provided on the Record of Borehole sheets in Appendix A.

Groundwater samples were collected from the monitoring wells on November 1, 2017. Depths to water were determined on October 31, 2017, using an electric water level meter and measured 1.139 m bgs at MW17-01, 0.542 m bgs at MW17-02, 0.310 m bgs at MW17-03, 0.100 m bgs at MW17-04, and 2.142 m bgs at MW17-06. Monitoring well MW17-05 was dry at the time of the groundwater sampling program. Groundwater development prior to sampling was completed at all well locations on October 31, 2017, by purging multiple well volumes or to dryness using dedicated Waterra® inertial samplers and/or a peristaltic pump. Note that insufficient groundwater recovery was observed at MW17-01 and MW17-05 – as such, samples were not collected from those locations at the time of the field work. Purge water from the wells was placed drums and removed from the Site by LandShark. Groundwater samples were collected from the wells using dedicated low flow sampling methods using a Geopump into pre-cleaned laboratory-supplied sample containers. Groundwater samples were stored on ice in a cooler until delivered, under chain-of-custody, to Maxxam Laboratories for analysis. The Laboratory Certificate of Analysis for groundwater is provided in Appendix C. Table 2 provides a summary of groundwater samples submitted for analysis. Figure 2 indicates the monitoring well locations.

Table 2: Summary of Groundwater Samples Submitted for Laboratory Analysis

Sample Location	Sample ID	Screen Interval (mbgs)	Parameters Analyzed
MW17-02	BH2	0.10 – 1.22	PAHs, PHCs F1 - F4, VOCs, Select Metals
MW17-03	BH3	0.3 – 1.30	PAHs, PHCs F1 - F4, VOCs, Metals & Inorganics
MW17-04	BH4	0.10 – 1.22	PAHs, PHCs F1 - F4, VOCs, Metals & Inorganics
MW17-06	BH6	0.10 – 2.69	PAHs, PHCs F1 - F4, VOCs, Metals & Inorganics

Notes:
m bgs = meters below ground surface
ppm = parts per million
PHCs F1-F4 = petroleum hydrocarbon fractions F1 to F4
VOCs = volatile organic compounds
PAHs = polycyclic aromatic hydrocarbons

4.4 Quality Assurance

Golder's quality assurance program for environmental investigation was implemented to ensure that analytical data obtained by the investigation were valid and representative. The quality assurance program included the following measures:

- The use of standard operating procedures ("SOP") for all field investigation activities;
- Monitoring wells were developed following installation to remove fine particles from the filter pack and any fluids introduced during drilling where feasible;
- Monitoring wells were purged prior to groundwater sample collection to remove stagnant water from the wellbore and improve sample representativeness;

- Initial calibration of field equipment was performed at the start of each field day using a standard of known concentration;
- Soil and groundwater samples were handled and stored in accordance with the sample collection and preservation requirements of the Ministry of the Environment ("MOE") *Protocol for Analytical Methods Used in the Assessment of Properties Under Part XV.I of the Environmental Protection Act*, July 1, 2011. Samples were collected directly into pre-cleaned laboratory-supplied sample containers with the appropriate preservative for the analyte group. Upon collection, samples were placed in insulated coolers with ice for storage and transport to the analytical laboratory;
- Dedicated sampling equipment (tubing and footvalves) and clean disposable Nitrile™ gloves were used at each sampling location to prevent cross-contamination. All non-dedicated sampling equipment (e.g., water level meters) were decontaminated between sampling locations. Sampling of soil was conducted with disposable PVC tube liners;
- Groundwater monitoring events, included well development and groundwater purging, and groundwater sampling included low flow sampling methods using a Geopump to minimize the inclusion of suspended sediments in the samples and to increase the representability of the tested media;
- Detailed field records documenting the methods and circumstances of collection for each field sample were prepared at the time of sample collection. Each sample was assigned a unique sample identification number recorded in the field notes, along with the date and time of sample collection, the sample matrix, and the requested analyses; and
- The submission of samples to the analytical laboratory in accordance with standard chain of custody procedures.

Laboratory analyses were completed by an analytical laboratory accredited in accordance with the International Standard ISO/IEC 17025 *General Requirements for the Competence of Testing and Calibration Laboratories*, dated May 5, 2005 (as amended), and accredited in accordance with the applicable standards for proficiency testing developed by the Standards Council of Canada or the Canadian Association for Laboratory Accreditation.

5.0 SUBSURFACE CONDITIONS

5.1 Site Specific Subsurface Conditions and Groundwater Conditions

Details of the conditions encountered in the boreholes are presented on the Record of Borehole sheets provided in Appendix A. A list of symbols used on the borehole sheets is provided to assist the reader. Soil strata described on the borehole logs have been inferred from continuous samples and geologic contacts noted on the logs represent an approximate transition from one soil type to another, rather than an exact plane of geologic change. Further, it should be noted that subsurface conditions encountered are specific to the borehole locations and will vary between and beyond borehole and sampling locations.

The boreholes were drilled to depths ranging from 1.22 m bgs to 2.69 m bgs, all of which were terminated upon practical refusal of the drilling equipment. The sub-slab surface at the Site generally consisted of a silty

clay layer underlain by a sand layer (in BH17-05, between 0.76 m bgs and 1.22 m bgs), and a gravel layer (in BH17-04, between 0.91 m bgs and 1.07 m bgs), which was in-turn underlain by silty clay. A clay lense was identified at 0.66m bgs in BH17-01. All boreholes were terminated upon practical sampler refusal. Details of the stratigraphy encountered in the boreholes are presented on the Record of Borehole sheets provided in Appendix B.

During drilling, black staining was noted in sample SA1 of BH17-03; a strong hydrocarbon-like odour was noted in samples SA1 and SA2 of BH17-04. RKI Eagle II instrument readings associated with the soil samples collected from the boreholes ranged from 0 ppm to 45 ppm (sample BH17-04 SA2) for combustible vapours and ranged from 0 ppm to 90 ppm (sample BH17-04 SA2) for organic vapours. It is noted that the highest combustible and organic vapours readings were collected solely from BH17-04 at approximately 0.6 to 1.2 m bgs.

5.2 Chemical Analyses

5.2.1 Applicable Site Condition Standards

The selection of the appropriate site conditions standards was based upon the following considerations:

- The Site is not an environmentally sensitive site as defined by Section 41, Part IX, O.Reg. 153/04;
- Based on the available historical reports, groundwater is assumed to be a non-potable resource;
- The current land use of the Site is industrial / commercial / community (“ICC”); and
- Based on the visual observation and field characterization of soil type encountered during drilling (primarily silty clay), the soil at the Site is considered “medium-fine textured”.

Accordingly, the soil and groundwater analytical results were compared to the coarse-textured soil site condition standards for industrial / commercial / community property use and non-potable groundwater use that are listed in Table 3 of the Ontario Ministry of the Environment (“MOE”) *“Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”*, April 15, 2011 (the “Table 3 Standards”).

5.2.2 Soil Analytical Results

The laboratory certificates of analysis for soil are provided in Appendix B. The analysis indicates that all soil samples submitted to the laboratory have met the Table 3 Standards for the parameters tested, with the following exceptions:

- Sample BH6 SS2 did not satisfy the Table 3 Standards for Benzo(a)anthracene with a measured concentration of 1.8 µg/g compared to the standard of 0.96 µg/g, Benzo(a)pyrene (1.7 µg/g vs 0.3 µg/g), Benzo(b/j)fluoranthene (1.8 µg/g vs 0.96 µg/g), Dibenz(a,h)anthracene (0.24 µg/g vs 0.1 µg/g), and Indeno(1,2,3-cd)_pyrene (1.0 µg/g vs 0.95 µg/g); and
- Sample BH6 SS3 did not satisfy the Table 3 Standards for PHC F2 (450 µg/g vs 250 µg/g).

5.2.3 Groundwater Analytical Results

The laboratory certificates of analysis for groundwater are provided in Appendix C. Based upon a comparison of the analytical results and the Table 3 Standards, the following is of note:

- Sample BH3 did not satisfy the Table 3 Standards for Dissolved Uranium with a measured concentration of 48 compared to the standard of 20 µg/;
- Sample BH4 did not satisfy the Table 3 Standards for 1-Methylnapthalene (350 µg/L vs 3.2 µg/L, 2-Methylnaphthalene (610 µg/L vs 3.2 µg/L), Acenaphthene (35 µg/L vs 4.1 µg/L), Acenaphthylene (2.0 µg/L vs 1.0 µg/L), Anthracene (8.0 µg/L vs 2.4 µg/L), Chrysene (0.12 µg/L vs 0.10 µg/L), Ethylbenzene (38 µg/L vs 2.4 µg/L), PHC F2 (21,000 µg/L vs 150 µg/L), PHC F3 (10,000 µg/L vs 500 µg/L), Fluoranthene (1.9 µg/L vs 0.41 µg/L), Methylnaphthalene, 2-(1-) (970 µg/L vs 3.2 µg/L), Dissolved Molybdenum (110 µg/L vs 70 µg/L, Naphthalene (160 µg/L vs 11 µg/L), Phenanthrene (79 µg/L 1.0 µg/L), Pyrene (26 µg/L), and Vanadium (26 µg/L vs 6.2 µg/L); and
- Sample BH6 did not satisfy the Table 3 Standards for 1-Methylnaphthalene (52 µg/L vs 3.2 µg/L), 2-Methylnaphthalene (21 µg/L vs 3.2), Benzo(a)pyrene (0.15 µg/L vs 0.10 µg/L), Benzo(b/j)fluoranthene (0.18 µg/L vs 0.10 µg/L), Chrysene (0.13 µg/L vs 0.10 µg/L), Ethylbenzene (2.6 µg/L vs 2.4 µg/L), PHC F2 (990 µg/L vs 150 µg/L), Fluoranthene (0.60 µg/L vs 0.41 µg/L), Methyl t-butyl ether (MTBE) (19 µg/L vs 15 µg/L), Methylnaphthalene, 2-(1-) (73 µg/L vs 3.2 µg/L), dissolved Molybdenum (98 µg/L vs 70 µg/L), Phenanthrene (5.4 µg/L vs 1.0 µg/L), and Dissolved Vanadium (13 µg/L vs 6.2 µg/L).

5.2.4 Observations During Sampling and Comparison to Non-Numerical Site Condition Standards

In addition to numerical standards, the 2011 Standard sets out non-numerical (aesthetic) standards relating to the presence of free phase product and hydrocarbon sheen and objectionable odours. Specifically, a property does not meet the site condition standards if there is evidence of free product, including but not limited to, visible petroleum hydrocarbon film or sheen present in groundwater, surface water or in any groundwater or surface water samples.

At the time of groundwater sampling, petroleum hydrocarbon odour was noted in BH17-04 and the highest combustible and organic vapours readings from soil samples were collected from BH17-04, as noted above.

5.3 Data Quality Review

Work was conducted in general accordance with Golder's Standard Operating Procedures and in general accordance with O.Reg. 153/04. As indicated, samples were taken for soil and groundwater and submitted for analysis of one or more of metals, metals & inorganics, PHC F1-F4, VOCs and PAHs.

Golder's quality assurance program was supplemented by the analytical laboratory's internal quality assurance and quality control program, which included the analysis of laboratory blanks, spikes, and duplicate samples. The analytical results for the laboratory quality assurance samples, which are provided in Appendix B and C, indicate that the results of the internal quality control program were within the laboratory's specified control limits.

The fieldwork was conducted in accordance with Golder's standard protocol and there were no quality issues of note identified.

Accordingly, the analytical data generated during the investigation are valid and representative and may be used in this Phase II ESA without further qualification other than as described in this report.

6.0 SUMMARY OF FINDINGS

The investigation carried out at the Site consisted of the drilling and sampling of six boreholes (BH17-01 to BH17-06), installation of six monitoring wells (MW17-01 to MW17-06), sampling of select soil and groundwater samples for one or more of the following parameters: metals, metals & inorganics, PHC F1-F4, VOCs and PAHs.

The boreholes were drilled to depths ranging from 0.22 m bgs to 2.69 m bgs and were terminated upon practical refusal. The sub-slab surface at the Site generally consisted of a silty clay layer underlain by a sand layer (in BH17-05, between 0.76 m bgs and 1.22 m bgs), and a gravel layer (in BH17-04, between 0.91 m bgs and 1.07 m bgs), which was in-turn underlain by silty clay. A clay lens was identified at 0.66m bgs in BH17-01.

During drilling, no visual evidence of environmental contamination was noted, with the exception of black staining in BH17-03 SA1 and a strong PHC-like odour and black staining in BH17-04. RKI Eagle II instrument readings associated with the soil samples collected from the boreholes ranged from 0 ppm to 45 ppm for combustible vapours and ranged from 0 ppm to 90 ppm for organic vapours.

At the time of groundwater sampling, petroleum hydrocarbon odour was noted in BH17-04. During the drilling and groundwater sampling programs, no free product was observed in the boreholes or monitoring wells.

The laboratory certificates of analysis for soil and groundwater are provided in Appendix B and Appendix C, respectively. The analysis indicates that all soil and groundwater samples submitted to the laboratory have met the Table 3 Standards for the parameters tested, with the following exceptions:

Soil:

- Sample BH6 SS2 did not satisfy the Table 3 Standards for Benzo(a)anthracene (1.8 µg/g vs 0.96 µg/g), Benzo(a)pyrene (1.7 µg/g vs 0.3 µg/g), Benzo(b/j)fluoranthene (1.8 µg/g vs 0.96 µg/g), Dibenz(a,h)anthracene (0.24 µg/g vs 0.1 µg/g), and Indeno(1,2,3-cd)pyrene (1.0 µg/g vs 0.95 µg/g); and
- Sample BH6 SS3 did not satisfy the Table 3 Standards for PHC F2 (450 µg/g vs 250 µg/g).

Groundwater:

- Sample BH3 did not satisfy the Table 3 Standards for Dissolved Uranium with a measured concentration of 48 compared to the standard of 20 µg/;

- Sample BH4 did not satisfy the Table 3 Standards for 1-Methylnapthalene (350 µg/L vs 3.2 µg/L, 2-Methylnaphthalene (610 µg/L vs 3.2 µg/L), Acenaphthene (35 µg/L vs 4.1 µg/L), Acenaphthylene (2.0 µg/L vs 1.0 µg/L), Anthracene (8.0 µg/L vs 2.4 µg/L), Chrysene (0.12 µg/L vs 0.10 µg/L), Ethylbenzene (38 µg/L vs 2.4 µg/L), PHC F2 (21,000 µg/L vs 150 µg/L), PHC F3 (10,000 µg/L vs 500 µg/L), Fluoranthene (1.9 µg/L vs 0.41 µg/L), Methylnaphthalene, 2-(1-) (970 µg/L vs 3.2 µg/L), Dissolved Molybdenum (110 µg/L vs 70 µg/L, Naphthalene (160 µg/L vs 11 µg/L), Phenanthrene (79 µg/L 1.0 µg/L), Pyrene (26 µg/L), and Vanadium (26 µg/L vs 6.2 µg/L); and

- Sample BH6 did not satisfy the Table 3 Standards for 1-Methylnaphthalene (52 µg/L vs 3.2 µg/L), 2-Methylnaphthalene (21 µg/L vs 3.2), Benzo(a)pyrene (0.15 µg/L vs 0.10 µg/L), Benzo(b/j)fluoranthene (0.18 µg/L vs 0.10 µg/L), Chrysene (0.13 µg/L vs 0.10 µg/L), Ethylbenzene (2.6 µg/L vs 2.4 µg/L), PHC F2 (990 µg/L vs 150 µg/L), Fluoranthene (0.60 µg/L vs 0.41 µg/L), Methyl t-butyl ether (MTBE) (19 µg/L vs 15 µg/L), Methylnaphthalene, 2-(1-) (73 µg/L vs 3.2 µg/L), dissolved Molybdenum (98 µg/L vs 70 µg/L), Phenanthrene (5.4 µg/L vs 1.0 µg/L), and Dissolved Vanadium (13 µg/L vs 6.2 µg/L).

7.0 CONCLUSIONS

Based on the investigative work completed during this Phase II ESA, the Site is suitable for redevelopment.

However, prior to obtaining a record of Site Condition (“RSC”) filed in accordance with the applicable generic standards set out in Ontario Regulation 153/04, the upper 0.5 m of fill material must be removed along with the removal of isolated groundwater impacts.

Golder anticipates that both items can be readily addressed during excavation and dewatering phases required in the normal course of the planned below grade construction process.

8.0 LIMITATIONS AND USE OF THIS REPORT

This report was prepared for the exclusive use of Reserve Properties. The report is based on data and information collected during the Phase II Environmental Site Assessment conducted by Golder Associates Ltd.’s personnel and is based solely on the Site conditions encountered at the time of the fieldwork carried out Between October 23, 2017 and November 1, 2017.

In preparing this Site assessment, Golder Associates evaluated only conditions at a limited number of test locations. Only limited chemical analyses of soil and groundwater samples were carried out. It should be noted that the results of an investigation of this nature should, in no way, be construed as a warranty that the Site is free from any and all contamination from past or current practices.

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

This document provides a professional opinion and, therefore, no warranty is either expressed, implied, or made as to the conclusions, advice and recommendations offered in this document. This document does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance

issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

Further, this report has investigated the subsurface environmental conditions at the Site only in the context of the MOE "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011. Golder Associates' professional services for this assignment addressed only the geo-environmental (chemical) aspects of the subsurface conditions at a limited number of locations. The potential environmental impact of Site development or local biological, hydrological and hydrogeological functions and the like has not been investigated or addressed. The geotechnical (physical) aspects, including engineering recommendations for the design and construction of building foundations, pavements, underground servicing and the like are outside the terms of reference for this report and have not been investigated or addressed.

Report Signature Page

GOLDER ASSOCIATES LTD.



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Principal, Environmental Management Division

TAM:lb/tm

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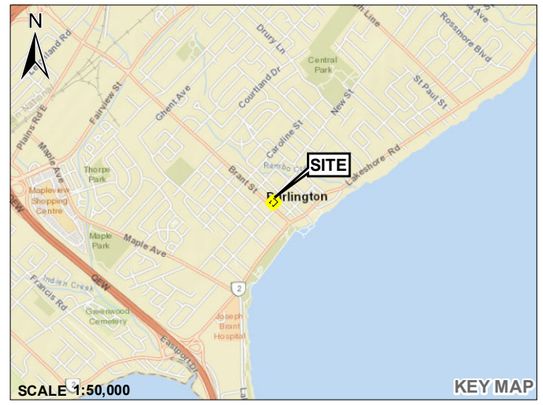
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FIGURES



LEGEND

- BOREHOLE LOCATION
- APPROXIMATE SITE BOUNDARY



DRAFT

0 10 20

1:400 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

BASE DATA - MNR LIO, OBTAINED 2017
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PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 17N

CLIENT
RESERVE PROPERTIES LTD.

PROJECT
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BRANT STREET AND JAMES STREET, BURLINGTON, ONTARIO

TITLE
BOREHOLE LOCATION PLAN

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-11-03
DESIGNED	JT
PREPARED	JT
REVIEWED	KB
APPROVED	

PROJECT NO.	CONTROL	REV.	FIGURE
1788882 (2000)			1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

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APPENDIX A

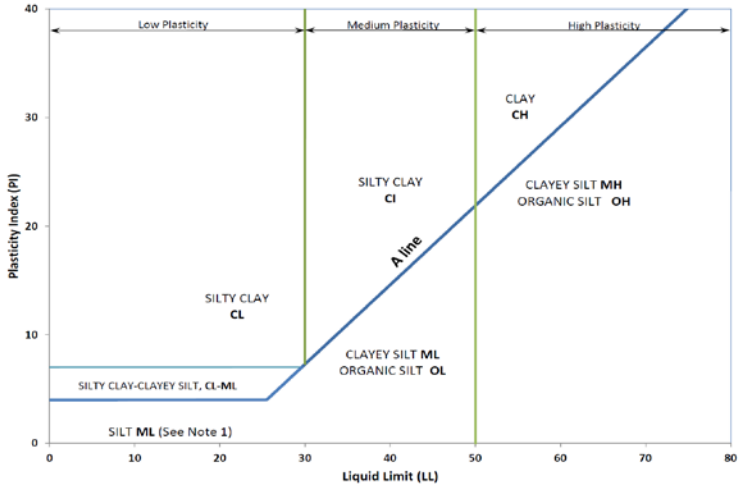
Record of Borehole sheets

METHOD OF SOIL CLASSIFICATION

The Golder Associates Ltd. Soil Classification System is based on the Unified Soil Classification System (USCS)

Organic or Inorganic	Soil Group	Type of Soil		Gradation or Plasticity	$Cu = \frac{D_{60}}{D_{10}}$	$Cc = \frac{(D_{30})^2}{D_{10} x D_{60}}$	Organic Content	USCS Group Symbol	Group Name
INORGANIC (Organic Content ≤30% by mass)	COARSE-GRAINED SOILS (>50% by mass is larger than 0.075 mm)	GRAVELS (>50% by mass of coarse fraction is larger than 4.75 mm)	Gravels with ≤12% fines (by mass)	Poorly Graded	<4	≤1 or ≥3	≤30%	GP	GRAVEL
				Well Graded	≥4	1 to 3		GW	GRAVEL
			Gravels with >12% fines (by mass)	Below A Line	n/a			GM	SILTY GRAVEL
				Above A Line	n/a			GC	CLAYEY GRAVEL
		SANDS (≥50% by mass of coarse fraction is smaller than 4.75 mm)	Sands with ≤12% fines (by mass)	Poorly Graded	<6	≤1 or ≥3		SP	SAND
				Well Graded	≥6	1 to 3		SW	SAND
			Sands with >12% fines (by mass)	Below A Line	n/a			SM	SILTY SAND
				Above A Line	n/a			SC	CLAYEY SAND

Organic or Inorganic	Soil Group	Type of Soil		Laboratory Tests	Field Indicators					Organic Content	USCS Group Symbol	Primary Name
					Dilatancy	Dry Strength	Shine Test	Thread Diameter	Toughness (of 3 mm thread)			
INORGANIC (Organic Content ≤30% by mass)	FINE-GRAINED SOILS (≥50% by mass is smaller than 0.075 mm)	SILTS (Non-Plastic or PI and LL plot below A-Line on Plasticity Chart below)		Liquid Limit <50	Rapid	None	None	>6 mm	N/A (can't roll 3 mm thread)	<5%	ML	SILT
					Slow	None to Low	Dull	3mm to 6 mm	None to low	<5%	ML	CLAYEY SILT
					Slow to very slow	Low to medium	Dull to slight	3mm to 6 mm	Low	5% to 30%	OL	ORGANIC SILT
				Liquid Limit ≥50	Slow to very slow	Low to medium	Slight	3mm to 6 mm	Low to medium	<5%	MH	CLAYEY SILT
					None	Medium to high	Dull to slight	1 mm to 3 mm	Medium to high	5% to 30%	OH	ORGANIC SILT
		CLAYS (PI and LL plot above A-Line on Plasticity Chart below)		Liquid Limit <30	None	Low to medium	Slight to shiny	~ 3 mm	Low to medium	0% to 30% (see Note 2)	CL	SILTY CLAY
				Liquid Limit 30 to 50	None	Medium to high	Slight to shiny	1 mm to 3 mm	Medium		CI	SILTY CLAY
				Liquid Limit ≥50	None	High	Shiny	<1 mm	High		CH	CLAY
HIGHLY ORGANIC SOILS (Organic Content >30% by mass)		Peat and mineral soil mixtures								30% to 75%	PT	SILTY PEAT, SANDY PEAT
		Predominantly peat, may contain some mineral soil, fibrous or amorphous peat								75% to 100%		PEAT



Note 1 – Fine grained materials with PI and LL that plot in this area are named (ML) SILT with slight plasticity. Fine-grained materials which are non-plastic (i.e. a PL cannot be measured) are named SILT.
Note 2 – For soils with <5% organic content, include the descriptor "trace organics" for soils with between 5% and 30% organic content include the prefix "organic" before the Primary name.

Dual Symbol — A dual symbol is two symbols separated by a hyphen, for example, GP-GM, SW-SC and CL-ML.
For non-cohesive soils, the dual symbols must be used when the soil has between 5% and 12% fines (i.e. to identify transitional material between "clean" and "dirty" sand or gravel.
For cohesive soils, the dual symbol must be used when the liquid limit and plasticity index values plot in the CL-ML area of the plasticity chart (see Plasticity Chart at left).

Borderline Symbol — A borderline symbol is two symbols separated by a slash, for example, CL/CI, GM/SM, CL/ML.
A borderline symbol should be used to indicate that the soil has been identified as having properties that are on the transition between similar materials. In addition, a borderline symbol may be used to ~~or~~ indicate~~s~~ a range of similar soil types within a stratum.

ABBREVIATIONS AND TERMS USED ON RECORDS OF BOREHOLES AND TEST PITS

PARTICLE SIZES OF CONSTITUENTS

Soil Constituent	Particle Size Description	Millimetres	Inches (US Std. Sieve Size)
BOULDERS	Not Applicable	>300	>12
COBBLES	Not Applicable	75 to 300	3 to 12
GRAVEL	Coarse Fine	19 to 75 4.75 to 19	0.75 to 3 (4) to 0.75
SAND	Coarse Medium Fine	2.00 to 4.75 0.425 to 2.00 0.075 to 0.425	(10) to (4) (40) to (10) (200) to (40)
SILT/CLAY	Classified by plasticity	<0.075	< (200)

MODIFIERS FOR SECONDARY AND MINOR CONSTITUENTS

Percentage by Mass	Modifier
>35	Use 'and' to combine major constituents (*i.e.,* SAND and GRAVEL, SAND and CLAY)
> 12 to 35	Primary soil name prefixed with "gravelly, sandy, SILTY, CLAYEY" as applicable
> 5 to 12	some
≤ 5	trace

PENETRATION RESISTANCE

Standard Penetration Resistance (SPT), N:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) split-spoon sampler for a distance of 300 mm (12 in.).

Cone Penetration Test (CPT)

An electronic cone penetrometer with a 60° conical tip and a project end area of 10 cm^2 pushed through ground at a penetration rate of 2 cm/s. Measurements of tip resistance (q_t), porewater pressure (u) and sleeve frictions are recorded electronically at 25 mm penetration intervals.

Dynamic Cone Penetration Resistance (DCPT); N_d:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) to drive uncased a 50 mm (2 in.) diameter, 60° cone attached to "A" size drill rods for a distance of 300 mm (12 in.).

PH: Sampler advanced by hydraulic pressure
PM: Sampler advanced by manual pressure
WH: Sampler advanced by static weight of hammer
WR: Sampler advanced by weight of sampler and rod

SAMPLES

AS	Auger sample
BS	Block sample
CS	Chunk sample
DO or DP	Seamless open ended, driven or pushed tube sampler – note size
DS	Denison type sample
FS	Foil sample
RC	Rock core
SC	Soil core
SS	Split spoon sampler – note size
ST	Slotted tube
TO	Thin-walled, open – note size
TP	Thin-walled, piston – note size
WS	Wash sample

SOIL TESTS

w	water content
PL , w_p	plastic limit
LL , w_L	liquid limit
C	consolidation (oedometer) test
CHEM	chemical analysis (refer to text)
CID	consolidated isotropically drained triaxial test[1]
CIU	consolidated isotropically undrained triaxial test with porewater pressure measurement[1]
D_R	relative density (specific gravity, Gs)
DS	direct shear test
GS	specific gravity
M	sieve analysis for particle size
MH	combined sieve and hydrometer (H) analysis
MPC	Modified Proctor compaction test
SPC	Standard Proctor compaction test
OC	organic content test
SO_4	concentration of water-soluble sulphates
UC	unconfined compression test
UU	unconsolidated undrained triaxial test
V (FV)	field vane (LV-laboratory vane test)
γ	unit weight

1. Tests which are anisotropically consolidated prior to shear are shown as CAD, CAU.

NON-COHESIVE (COHESIONLESS) SOILS

Compactness[2]

Term	SPT 'N' (blows/0.3m)[1]
Very Loose	0 - 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very Dense	>50

1. SPT 'N' in accordance with ASTM D1586, uncorrected for overburden pressure effects.
2. Definition of compactness descriptions based on SPT 'N' ranges from Terzaghi and Peck (1967) and correspond to typical average N_{60} values.

Field Moisture Condition

Term	Description
Dry	Soil flows freely through fingers.
Moist	Soils are darker than in the dry condition and may feel cool.
Wet	As moist, but with free water forming on hands when handled.

COHESIVE SOILS

Consistency

Term	Undrained Shear Strength (kPa)	SPT 'N'[1] (blows/0.3m)
Very Soft	<12	0 to 2
Soft	12 to 25	2 to 4
Firm	25 to 50	4 to 8
Stiff	50 to 100	8 to 15
Very Stiff	100 to 200	15 to 30
Hard	>200	>30

1. SPT 'N' in accordance with ASTM D1586, uncorrected for overburden pressure effects; approximate only.

Water Content

Term	Description
w < PL	Material is estimated to be drier than the Plastic Limit.
w ~ PL	Material is estimated to be close to the Plastic Limit.
w > PL	Material is estimated to be wetter than the Plastic Limit.

LIST OF SYMBOLS

Unless otherwise stated, the symbols employed in the report are as follows:

I. GENERAL

π	3.1416
ln x	natural logarithm of x
$\log_{10}$	x or log x, logarithm of x to base 10
g	acceleration due to gravity
t	time

II. STRESS AND STRAIN

γ	shear strain
Δ	change in, e.g. in stress: $\Delta\sigma$
ε	linear strain
ε_v	volumetric strain
η	coefficient of viscosity
υ	Poisson's ratio
σ	total stress
σ'	effective stress ($\sigma' = \sigma - u$)
σ'_{vo}	initial effective overburden stress
σ_1, σ_2, σ_3	principal stress (major, intermediate, minor)
σ_{oct}	mean stress or octahedral stress $= (\sigma_1 + \sigma_2 + \sigma_3)/3$
τ	shear stress
u	porewater pressure
E	modulus of deformation
G	shear modulus of deformation
K	bulk modulus of compressibility

III. SOIL PROPERTIES

(a) Index Properties

$\rho(\gamma)$	bulk density (bulk unit weight)*
$\rho_d(\gamma_d)$	dry density (dry unit weight)
$\rho_w(\gamma_w)$	density (unit weight) of water
$\rho_s(\gamma_s)$	density (unit weight) of solid particles
γ'	unit weight of submerged soil ($\gamma' = \gamma - \gamma_w$)
D_R	relative density (specific gravity) of solid particles ($D_R = \rho_s / \rho_w$) (formerly G_s)
e	void ratio
n	porosity
S	degree of saturation

* Density symbol is ρ. Unit weight symbol is γ where $\gamma = \rho g$ (i.e. mass density multiplied by acceleration due to gravity)

(a) Index Properties (continued)

w	water content
w_l or LL	liquid limit
w_p or PL	plastic limit
I_p or PI	plasticity index = $(w_l - w_p)$
w_s	shrinkage limit
I_L	liquidity index = $(w - w_p) / I_p$
I_C	consistency index = $(w_l - w) / I_p$
e_{max}	void ratio in loosest state
e_{min}	void ratio in densest state
I_D	density index = $(e_{max} - e) / (e_{max} - e_{min})$ (formerly relative density)

(b) Hydraulic Properties

h	hydraulic head or potential
q	rate of flow
v	velocity of flow
i	hydraulic gradient
k	hydraulic conductivity (coefficient of permeability)
j	seepage force per unit volume

(c) Consolidation (one-dimensional)

C_c	compression index (normally consolidated range)
C_r	recompression index (over-consolidated range)
C_s	swelling index
C_α	secondary compression index
m_v	coefficient of volume change
c_v	coefficient of consolidation (vertical direction)
c_h	coefficient of consolidation (horizontal direction)
T_v	time factor (vertical direction)
U	degree of consolidation
σ'_p	pre-consolidation stress
OCR	over-consolidation ratio = σ'_p / σ'_{vo}

(d) Shear Strength

τ_p, τ_r	peak and residual shear strength
ϕ'	effective angle of internal friction
δ	angle of interface friction
μ	coefficient of friction = tan δ
c′	effective cohesion
c_u, s_u	undrained shear strength ($\phi = 0$ analysis)
p	mean total stress $(\sigma_1 + \sigma_3)/2$
p′	mean effective stress $(\sigma'_1 + \sigma'_3)/2$
q	$(\sigma_1 - \sigma_3)/2$ or $(\sigma'_1 - \sigma'_3)/2$
q_u	compressive strength $(\sigma_1 - \sigma_3)$
S_t	sensitivity

Notes: 1 $\tau = c' + \sigma' \tan \phi'$

2 shear strength = (compressive strength)/2

LITHOLOGICAL AND GEOTECHNICAL ROCK DESCRIPTION TERMINOLOGY

WEATHERINGS STATE

Fresh: no visible sign of weathering

Faintly weathered: weathering limited to the surface of major discontinuities.

Slightly weathered: penetrative weathering developed on open discontinuity surfaces but only slight weathering of rock material.

Moderately weathered: weathering extends throughout the rock mass but the rock material is not friable.

Highly weathered: weathering extends throughout rock mass and the rock material is partly friable.

Completely weathered: rock is wholly decomposed and in a friable condition but the rock and structure are preserved.

BEDDING THICKNESS

Description	Bedding Plane Spacing
Very thickly bedded	Greater than 2 m
Thickly bedded	0.6 m to 2 m
Medium bedded	0.2 m to 0.6 m
Thinly bedded	60 mm to 0.2 m
Very thinly bedded	20 mm to 60 mm
Laminated	6 mm to 20 mm
Thinly laminated	Less than 6 mm

JOINT OR FOLIATION SPACING

Description	Spacing
Very wide	Greater than 3 m
Wide	1 m to 3 m
Moderately close	0.3 m to 1 m
Close	50 mm to 300 mm
Very close	Less than 50 mm

GRAIN SIZE

Term	Size*
Very Coarse Grained	Greater than 60 mm
Coarse Grained	2 mm to 60 mm
Medium Grained	60 microns to 2 mm
Fine Grained	2 microns to 60 microns
Very Fine Grained	Less than 2 microns

Note: * Grains greater than 60 microns diameter are visible to the naked eye.

CORE CONDITION

Total Core Recovery (TCR)
The percentage of solid drill core recovered regardless of quality or length, measured relative to the length of the total core run.

Solid Core Recovery (SCR)
The percentage of solid drill core, regardless of length, recovered at full diameter, measured relative to the length of the total core run.

Rock Quality Designation (RQD)
The percentage of solid drill core, greater than 100 mm length, recovered at full diameter, measured relative to the length of the total core run. RQD varied from 0% for completely broken core to 100% for core in solid sticks.

DISCONTINUITY DATA

Fracture Index
A count of the number of discontinuities (physical separations) in the rock core, including both naturally occurring fractures and mechanically induced breaks caused by drilling.

Dip with Respect to Core Axis
The angle of the discontinuity relative to the axis (length) of the core. In a vertical borehole a discontinuity with a 90^{o} angle is horizontal.

Description and Notes
An abbreviation description of the discontinuities, whether naturally occurring separations such as fractures, bedding planes and foliation planes or mechanically induced features caused by drilling such as ground or shattered core and mechanically separated bedding or foliation surfaces. Additional information concerning the nature of fracture surfaces and infillings are also noted.

Abbreviations

JN	Joint	PL	Planar
FLT	Fault	CU	Curved
SH	Shear	UN	Undulating
VN	Vein	IR	Irregular
FR	Fracture	K	Slickensided
SY	Stylolite	PO	Polished
BD	Bedding	SM	Smooth
FO	Foliation	SR	Slightly Rough
CO	Contact	RO	Rough
AXJ	Axial Joint	VR	Very Rough
KV	Karstic Void		
MB	Mechanical Break		

PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-01

BORING DATE: October 25, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE								
0	Direct Push	(CL) SILTY CLAY, trace gravel; light brown, no odour, no staining; cohesive, w<PL		0.00	1	SS		□ ⊕		Bentonite
		- Clay lense at 0.66 m			2	SS		□ ⊕		Screen
1		END OF BOREHOLE		1.27						
2										
3										
4										
5										
6										
7										
8										
9										
10										

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: LA

CHECKED:

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PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-02

BORING DATE: October 25, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected; 20 40 60 80) / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected; 20 40 60 80)	HYDRAULIC CONDUCTIVITY, k, cm/s (10^{-6} 10^{-5} 10^{-4} 10^{-3}) / WATER CONTENT PERCENT (Wp W Wl; 10 20 30 40)	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0		GROUND SURFACE								
0	Direct Push	(CL) SILTY CLAY, trace gravel; grey, no odour, no staining; cohesive, w<PL		0.00	1	SS		□ ⊕		Bentonite
		(CL) SILTY CLAY, trace gravel; light brown, no odour, no staining; cohesive, w<PL		0.13	2	SS		⊕□ ND		Screen
1		END OF BOREHOLE		1.22						
2										
3										
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8										
9										
10										

DEPTH SCALE

1 : 50

Golder Associates

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PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-03

BORING DATE: October 24, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE								
0	Direct Push	(CL) SILTY CLAY, trace gravel; light brown, black staining to 0.15 m; cohesive, w<PL		0.00 / 0.13	1	SS		⊕ ND		Bentonite
1		(CL) SILTY CLAY, trace gravel; light brown, no odour, no staining; cohesive, w>PL			2	SS		⊕ ND		Screen
					3	SS		□ ⊕		
		END OF BOREHOLE		1.40						
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DEPTH SCALE

1 : 50

Golder Associates

LOGGED: LA

CHECKED:

PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-04

BORING DATE: October 26, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE								
0	Direct Push	(CL) SILTY CLAY, trace gravel; light brown, strong Petroleum-Hydrocarbon odour, black staining to 0.15 m; cohesive, w~PL		0.00	1	SS		⊕ □		Bentonite
1	Direct Push	(GW) GRAVEL, some sand; light grey; non-cohesive, dry		0.91	2	SS		⊕ □		Screen
	Direct Push	(CL) SILTY CLAY, some gravel; light brown, very stong Petroleum-Hydrocarbon odour; cohesive, w~PL		1.07						
		END OF BOREHOLE		1.22						
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DEPTH SCALE

1 : 50

Golder Associates

LOGGED: LA

CHECKED:

PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-05

BORING DATE: October 26, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE								
0	Direct Push	FILL - (CL) SILTY SAND, some gravel; brown, no odour, no staining; cohesive, w~PL		0.00	1	SS		ND		Bentonite
1		FILL - (SP) SAND, some gravel; light brown, no odour, no staining, presence of debris; non-cohesive, dray		0.76	2	SS		ND		
		(CL) SILTY CLAY, some gravel; dark brown, no odour, no staining; cohesive, w~PL		1.22	3	SS		ND		Screen
2					4	SS		ND		
		END OF BOREHOLE		2.44						
		NOTE:								
3		1. Borehole dry.								
4										
5										
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7										
8										
9										
10										

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: LA

CHECKED:

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PROJECT: 1788882 (2000)

LOCATION: N ; E

RECORD OF BOREHOLE: BH17-06

BORING DATE: October 26, 2017

SHEET 1 OF 1

DATUM:

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	TYPE	BLOWS/0.3m	HEADSPACE COMBUSTIBLE VAPOUR CONCENTRATIONS [PPM] ⊕ (ND = Not Detected) 20 40 60 80 / HEADSPACE ORGANIC VAPOUR CONCENTRATIONS [PPM] □ (ND = Not Detected) 20 40 60 80	HYDRAULIC CONDUCTIVITY, k, cm/s 10^{-6} 10^{-5} 10^{-4} 10^{-3} / WATER CONTENT PERCENT Wp W Wl 10 20 30 40	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		GROUND SURFACE								
0	Direct Push	(SW) SAND; brown; no odour, no staining; non-cohesive, moist		0.00	1	SS		ND		Bentonite
		(SW) SAND and GRAVEL; grey; no odour, no staining; non-cohesive, moist		0.61	2	SS		ND		
1		(CL) SILTY CLAY; brown grey matters, no odour, no staining; cohesive		0.91	3	SS		ND		Screen
2		(GW) GRAVEL; grey, no odour, no staining; non-cohesive, dry		2.13	4	SS				
		(CL) SILTY CLAY; brown grey matters, no odour, no staining; cohesive, w<PL		2.29						
		END OF BOREHOLE		2.69						
3										
4										
5										
6										
7										
8										
9										
10										

DEPTH SCALE

1 : 50

Golder Associates

LOGGED: LA

CHECKED:

GTA-BHS 001 S:\CLIENTS\RESERVE_PROPERTIES\BURLINGTON\02_DATA\GINT\BURLINGTON.GPJ GAL-MIS.GDT 12/4/17

APPENDIX B

Laboratory Certificate of Analysis (Soil)

Maxxam
A Bureau Veritas Group Company

Your Project #: 1788882 (2000)
Your C.O.C. #: 635306-10-01

Attention:Kevan Browne

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

Report Date: 2017/11/02
Report #: R4819207
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7O0149
Received: 2017/10/27, 08:30

Sample Matrix: Soil
Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Methylnaphthalene Sum	17	N/A	2017/11/01	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	17	N/A	2017/11/01		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1)	17	2017/10/31	2017/11/01	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2017/11/02	2017/11/02	CAM SOP-00316	CCME PHC-CWS m
Moisture	17	N/A	2017/10/30	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2017/10/31	2017/10/31	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	16	2017/10/31	2017/11/01	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	2	N/A	2017/10/30	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs	15	N/A	2017/10/31	CAM SOP-00230	EPA 8260C m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam 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.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam 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 Maxxam, unless otherwise agreed in writing.

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.
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.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Your Project #: 1788882 (2000)
Your C.O.C. #: 635306-10-01

Attention:Kevan Browne

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

Report Date: 2017/11/02
Report #: R4819207
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7O0149

Received: 2017/10/27, 08:30

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam 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: EGitej@maxxam.ca
Phone# (905)817-5829

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

O.REG 153 PAHS (SOIL)

Maxxam ID		FKV502	FKV502	FKV503	FKV504	FKV505	FKV506		
Sampling Date		2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH6 SS1	BH6 SS1 Lab-Dup	BH6 SS2	BH6 SS3	BH6 SS4	BH4 SS1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.016		0.073	6.8	0.97	3.8	0.0071	5234996
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	0.33	1.0	0.16	0.29	0.0050	5240605
Acenaphthylene	ug/g	<0.0050	<0.0050	0.070	0.047	0.0074	0.021	0.0050	5240605
Anthracene	ug/g	<0.0050	<0.0050	0.57	0.30	0.030	0.087	0.0050	5240605
Benzo(a)anthracene	ug/g	0.0056	<0.0050	1.8	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(a)pyrene	ug/g	0.0060	<0.0050	1.7	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(b/j)fluoranthene	ug/g	0.0077	0.0051	1.8	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.78	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.73	<0.0050	<0.0050	<0.0050	0.0050	5240605
Chrysene	ug/g	0.0062	<0.0050	1.5	0.0063	<0.0050	<0.0050	0.0050	5240605
Dibenz(a,h)anthracene	ug/g	<0.0050	<0.0050	0.24	<0.0050	<0.0050	<0.0050	0.0050	5240605
Fluoranthene	ug/g	0.011	0.0059	3.0	0.023	<0.0050	0.0084	0.0050	5240605
Fluorene	ug/g	<0.0050	<0.0050	0.23	0.64	0.12	0.20	0.0050	5240605
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	1.0	<0.0050	<0.0050	<0.0050	0.0050	5240605
1-Methylnaphthalene	ug/g	0.0099	0.011	0.037	6.1	0.81	1.5	0.0050	5240605
2-Methylnaphthalene	ug/g	0.0066	0.0076	0.036	0.63	0.16	2.3	0.0050	5240605
Naphthalene	ug/g	<0.0050	<0.0050	0.012	0.064	0.015	0.23	0.0050	5240605
Phenanthrene	ug/g	0.0096	0.0082	2.2	1.6	0.25	0.41	0.0050	5240605
Pyrene	ug/g	0.010	0.0065	2.6	0.079	0.0096	0.042	0.0050	5240605
Surrogate Recovery (%)									
D10-Anthracene	%	92	91	97	91	95	100		5240605
D14-Terphenyl (FS)	%	79	79	84	77	80	81		5240605
D8-Acenaphthylene	%	95	101	109	95	98	101		5240605

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

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

O.REG 153 PAHS (SOIL)

Maxxam ID		FKV507		FKV508	FKV509	FKV510	FKV511		
Sampling Date		2017/10/26		2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01		635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH4 SS2	QC Batch	BH5 SS1	BH5 SS2	BH5 SS3	BH5 SS4	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	3.1	5234996	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	5235766
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.22	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Acenaphthylene	ug/g	0.011	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Anthracene	ug/g	0.051	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(a)anthracene	ug/g	<0.0050	5240605	0.0052	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(a)pyrene	ug/g	<0.0050	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(b/j)fluoranthene	ug/g	<0.0050	5240605	0.0060	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(g,h,i)perylene	ug/g	<0.0050	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(k)fluoranthene	ug/g	<0.0050	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Chrysene	ug/g	<0.0050	5240605	0.0054	<0.0050	<0.0050	<0.0050	0.0050	5240605
Dibenz(a,h)anthracene	ug/g	<0.0050	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Fluoranthene	ug/g	0.0062	5240605	0.010	<0.0050	<0.0050	<0.0050	0.0050	5240605
Fluorene	ug/g	0.15	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
1-Methylnaphthalene	ug/g	1.2	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
2-Methylnaphthalene	ug/g	1.9	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Naphthalene	ug/g	0.24	5240605	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Phenanthrene	ug/g	0.29	5240605	0.012	<0.0050	<0.0050	<0.0050	0.0050	5240605
Pyrene	ug/g	0.030	5240605	0.0082	<0.0050	<0.0050	<0.0050	0.0050	5240605
Surrogate Recovery (%)									
D10-Anthracene	%	95	5240605	95	93	95	95		5240605
D14-Terphenyl (FS)	%	80	5240605	74	76	79	81		5240605
D8-Acenaphthylene	%	101	5240605	104	101	99	100		5240605

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

O.REG 153 PAHS (SOIL)

Maxxam ID		FKV512	FKV513	FKV514	FKV515	FKV516	FKV517		
Sampling Date		2017/10/25 11:10	2017/10/25 11:15	2017/10/25	2017/10/25	2017/10/24 13:05	2017/10/24 13:10		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH2 SS1	BH2 SS2	BH1 SS1	BH1 SS2	BH3 SS1	BH3 SS2	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	5235766
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Dibenz(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	5240605
Surrogate Recovery (%)									
D10-Anthracene	%	95	94	95	99	91	93		5240605
D14-Terphenyl (FS)	%	78	77	81	77	82	78		5240605
D8-Acenaphthylene	%	102	104	109	98	101	102		5240605

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

O.REG 153 PAHS (SOIL)

Maxxam ID		FKV518		
Sampling Date		2017/10/24 13:15		
COC Number		635306-10-01		
	UNITS	BH3 SS3	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	5235766
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	5240605
Acenaphthylene	ug/g	<0.0050	0.0050	5240605
Anthracene	ug/g	<0.0050	0.0050	5240605
Benzo(a)anthracene	ug/g	<0.0050	0.0050	5240605
Benzo(a)pyrene	ug/g	<0.0050	0.0050	5240605
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	5240605
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	5240605
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	5240605
Chrysene	ug/g	<0.0050	0.0050	5240605
Dibenz(a,h)anthracene	ug/g	<0.0050	0.0050	5240605
Fluoranthene	ug/g	<0.0050	0.0050	5240605
Fluorene	ug/g	<0.0050	0.0050	5240605
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	5240605
1-Methylnaphthalene	ug/g	<0.0050	0.0050	5240605
2-Methylnaphthalene	ug/g	<0.0050	0.0050	5240605
Naphthalene	ug/g	<0.0050	0.0050	5240605
Phenanthrene	ug/g	<0.0050	0.0050	5240605
Pyrene	ug/g	<0.0050	0.0050	5240605
Surrogate Recovery (%)				
D10-Anthracene	%	94		5240605
D14-Terphenyl (FS)	%	80		5240605
D8-Acenaphthylene	%	99		5240605

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV502	FKV502	FKV503	FKV503	FKV504		
Sampling Date		2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH6 SS1	BH6 SS1 Lab-Dup	BH6 SS2	BH6 SS2 Lab-Dup	BH6 SS3	RDL	QC Batch
Inorganics								
Moisture	%	7.4		12		12	1.0	5238670
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050		<0.050		<0.050	0.050	5234768
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.50		<0.50	<0.50	<0.50	0.50	5237266
Benzene	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
Bromodichloromethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Bromoform	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Bromomethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Carbon Tetrachloride	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Chlorobenzene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Chloroform	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Dibromochloromethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichlorobenzene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,3-Dichlorobenzene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,4-Dichlorobenzene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethylene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
cis-1,2-Dichloroethylene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
trans-1,2-Dichloroethylene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloropropane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
cis-1,3-Dichloropropene	ug/g	<0.030		<0.030	<0.030	<0.030	0.030	5237266
trans-1,3-Dichloropropene	ug/g	<0.040		<0.040	<0.040	<0.040	0.040	5237266
Ethylbenzene	ug/g	<0.020		<0.020	<0.020	0.060	0.020	5237266
Ethylene Dibromide	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Hexane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Methylene Chloride(Dichloromethane)	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50		<0.50	<0.50	<0.50	0.50	5237266
Methyl Isobutyl Ketone	ug/g	<0.50		<0.50	<0.50	<0.50	0.50	5237266
Methyl t-butyl ether (MTBE)	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Styrene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266

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

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV502	FKV502	FKV503	FKV503	FKV504		
Sampling Date		2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH6 SS1	BH6 SS1 Lab-Dup	BH6 SS2	BH6 SS2 Lab-Dup	BH6 SS3	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,1,2,2-Tetrachloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Tetrachloroethylene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Toluene	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
1,1,1-Trichloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
1,1,2-Trichloroethane	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Trichloroethylene	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Trichlorofluoromethane (FREON 11)	ug/g	<0.050		<0.050	<0.050	<0.050	0.050	5237266
Vinyl Chloride	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
p+m-Xylene	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
o-Xylene	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
Total Xylenes	ug/g	<0.020		<0.020	<0.020	<0.020	0.020	5237266
F1 (C6-C10)	ug/g	<10		<10	<10	30	10	5237266
F1 (C6-C10) - BTEX	ug/g	<10		<10	<10	30	10	5237266
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	12		450	10	5240623
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	170		330	50	5240623
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	230		<50	50	5240623
Reached Baseline at C50	ug/g	Yes	Yes	No		Yes		5240623
Surrogate Recovery (%)								
o-Terphenyl	%	98	97	104		102		5240623
4-Bromofluorobenzene	%	100		100	100	105		5237266
D10-o-Xylene	%	99		99	99	106		5237266
D4-1,2-Dichloroethane	%	100		102	101	101		5237266
D8-Toluene	%	97		97	98	95		5237266

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV505	FKV506	FKV507	FKV508	FKV509		
Sampling Date		2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH6 SS4	BH4 SS1	BH4 SS2	BH5 SS1	BH5 SS2	RDL	QC Batch
Inorganics								
Moisture	%	7.3	11	9.4	15	14	1.0	5238670
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5234768
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	5237266
Bromodichloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Bromoform	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Bromomethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Carbon Tetrachloride	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Chlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Chloroform	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Dibromochloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloropropane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	5237266
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	5237266
Ethylbenzene	ug/g	0.039	0.25	<0.020	<0.020	<0.020	0.020	5237266
Ethylene Dibromide	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Hexane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Styrene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV505	FKV506	FKV507	FKV508	FKV509		
Sampling Date		2017/10/26	2017/10/26	2017/10/26	2017/10/26	2017/10/26		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH6 SS4	BH4 SS1	BH4 SS2	BH5 SS1	BH5 SS2	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Tetrachloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	5237266
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Trichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Vinyl Chloride	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	5237266
p+m-Xylene	ug/g	<0.020	0.068	<0.020	<0.020	<0.020	0.020	5237266
o-Xylene	ug/g	<0.020	0.076	<0.020	<0.020	<0.020	0.020	5237266
Total Xylenes	ug/g	<0.020	0.14	<0.020	<0.020	<0.020	0.020	5237266
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	10	5237266
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	10	5237266
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	44	200	140	<10	<10	10	5240623
F3 (C16-C34 Hydrocarbons)	ug/g	<50	140	110	<50	<50	50	5240623
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	50	5240623
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes		5240623
Surrogate Recovery (%)								
o-Terphenyl	%	98	100	99	98	98		5240623
4-Bromofluorobenzene	%	101	101	99	100	100		5237266
D10-o-Xylene	%	98	100	98	103	101		5237266
D4-1,2-Dichloroethane	%	101	99	102	100	103		5237266
D8-Toluene	%	96	96	97	98	98		5237266

RDL = Reportable Detection Limit
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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV510	FKV511		FKV512	FKV513	FKV514		
Sampling Date		2017/10/26	2017/10/26		2017/10/25 11:10	2017/10/25 11:15	2017/10/25		
COC Number		635306-10-01	635306-10-01		635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH5 SS3	BH5 SS4	QC Batch	BH2 SS1	BH2 SS2	BH1 SS1	RDL	QC Batch
Inorganics									
Moisture	%	14	10	5238670	9.6	8.5	13	1.0	5238670
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	5234768	<0.050	<0.050	<0.050	0.050	5235768
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.50	<0.50	5237266	<0.50	<0.50	<0.50	0.50	5237266
Benzene	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
Bromodichloromethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Bromoform	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Bromomethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Carbon Tetrachloride	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Chlorobenzene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Chloroform	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Dibromochloromethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethylene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloropropane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	5237266	<0.030	<0.030	<0.030	0.030	5237266
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	5237266	<0.040	<0.040	<0.040	0.040	5237266
Ethylbenzene	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
Ethylene Dibromide	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Hexane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	5237266	<0.50	<0.50	<0.50	0.50	5237266
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	5237266	<0.50	<0.50	<0.50	0.50	5237266
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Styrene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

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

Maxxam ID		FKV510	FKV511		FKV512	FKV513	FKV514		
Sampling Date		2017/10/26	2017/10/26		2017/10/25 11:10	2017/10/25 11:15	2017/10/25		
COC Number		635306-10-01	635306-10-01		635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH5 SS3	BH5 SS4	QC Batch	BH2 SS1	BH2 SS2	BH1 SS1	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Tetrachloroethylene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Toluene	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Trichloroethylene	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	5237266	<0.050	<0.050	<0.050	0.050	5237266
Vinyl Chloride	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
p+m-Xylene	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
o-Xylene	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
Total Xylenes	ug/g	<0.020	<0.020	5237266	<0.020	<0.020	<0.020	0.020	5237266
F1 (C6-C10)	ug/g	<10	<10	5237266	<10	<10	<10	10	5237266
F1 (C6-C10) - BTEX	ug/g	<10	<10	5237266	<10	<10	<10	10	5237266
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	5240623	<10	<10	<10	10	5240623
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	5240623	<50	<50	<50	50	5240623
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	5240623	<50	<50	<50	50	5240623
Reached Baseline at C50	ug/g	Yes	Yes	5240623	Yes	Yes	Yes		5240623
Surrogate Recovery (%)									
o-Terphenyl	%	98	99	5240623	98	99	99		5240623
4-Bromofluorobenzene	%	100	99	5237266	99	99	99		5237266
D10-o-Xylene	%	99	96	5237266	100	98	99		5237266
D4-1,2-Dichloroethane	%	101	104	5237266	102	102	101		5237266
D8-Toluene	%	97	97	5237266	97	96	97		5237266

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam ID		FKV515	FKV516	FKV517	FKV518		
Sampling Date		2017/10/25	2017/10/24 13:05	2017/10/24 13:10	2017/10/24 13:15		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH1 SS2	BH3 SS1	BH3 SS2	BH3 SS3	RDL	QC Batch
Inorganics							
Moisture	%	7.9	13	10	12	1.0	5238670
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5235768
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
Bromodichloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Bromoform	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Bromomethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Carbon Tetrachloride	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Chlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Chloroform	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Dibromochloromethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,2-Dichloropropane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	0.030	5237266
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	5237266
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
Ethylene Dibromide	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Hexane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	5237266
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Styrene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Maxxam ID		FKV515	FKV516	FKV517	FKV518		
Sampling Date		2017/10/25	2017/10/24 13:05	2017/10/24 13:10	2017/10/24 13:15		
COC Number		635306-10-01	635306-10-01	635306-10-01	635306-10-01		
	UNITS	BH1 SS2	BH3 SS1	BH3 SS2	BH3 SS3	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Tetrachloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Trichloroethylene	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	5237266
Vinyl Chloride	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	5237266
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	5237266
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	5237266
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	10	5240623
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	5240623
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	5240623
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		5240623
Surrogate Recovery (%)							
o-Terphenyl	%	98	98	99	98		5240623
4-Bromofluorobenzene	%	99	98	99	99		5237266
D10-o-Xylene	%	98	101	100	102		5237266
D4-1,2-Dichloroethane	%	102	102	101	105		5237266
D8-Toluene	%	97	96	98	98		5237266

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FKV503		
Sampling Date		2017/10/26		
COC Number		635306-10-01		
	UNITS	BH6 SS2	RDL	QC Batch
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	760	100	5244307

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Maxxam ID: FKV502 **Collected:** 2017/10/26
Sample ID: BH6 SS1 **Shipped:**
Matrix: Soil **Received:** 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/10/31	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/30	Yang (Philip) Yu

Maxxam ID: FKV502 Dup **Collected:** 2017/10/26
Sample ID: BH6 SS1 **Shipped:**
Matrix: Soil **Received:** 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj

Maxxam ID: FKV503 **Collected:** 2017/10/26
Sample ID: BH6 SS2 **Shipped:**
Matrix: Soil **Received:** 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
F4G (CCME Hydrocarbons Gravimetric)	BAL	5244307	2017/11/02	2017/11/02	Debra Deslandes
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/30	Yang (Philip) Yu

Maxxam ID: FKV503 Dup **Collected:** 2017/10/26
Sample ID: BH6 SS2 **Shipped:**
Matrix: Soil **Received:** 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/30	Yang (Philip) Yu

Maxxam ID: FKV504 **Collected:** 2017/10/26
Sample ID: BH6 SS3 **Shipped:**
Matrix: Soil **Received:** 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

TEST SUMMARY

Maxxam ID: FKV505
Sample ID: BH6 SS4
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV506
Sample ID: BH4 SS1
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV507
Sample ID: BH4 SS2
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5234996	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV508
Sample ID: BH5 SS1
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

TEST SUMMARY

Maxxam ID: FKV509
Sample ID: BH5 SS2
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV510
Sample ID: BH5 SS3
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV511
Sample ID: BH5 SS4
Matrix: Soil

Collected: 2017/10/26
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5234768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV512
Sample ID: BH2 SS1
Matrix: Soil

Collected: 2017/10/25
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

TEST SUMMARY

Maxxam ID: FKV513
Sample ID: BH2 SS2
Matrix: Soil

Collected: 2017/10/25
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV514
Sample ID: BH1 SS1
Matrix: Soil

Collected: 2017/10/25
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV515
Sample ID: BH1 SS2
Matrix: Soil

Collected: 2017/10/25
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV516
Sample ID: BH3 SS1
Matrix: Soil

Collected: 2017/10/24
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

TEST SUMMARY

Maxxam ID: FKV517
Sample ID: BH3 SS2
Matrix: Soil

Collected: 2017/10/24
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam ID: FKV518
Sample ID: BH3 SS3
Matrix: Soil

Collected: 2017/10/24
Shipped:
Received: 2017/10/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	5235766	N/A	2017/11/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	5235768	N/A	2017/11/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	5240623	2017/10/31	2017/11/01	Atoosa Keshavarz
Moisture	BAL	5238670	N/A	2017/10/30	Chun Yan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	5240605	2017/10/31	2017/11/01	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	5237266	N/A	2017/10/31	Yang (Philip) Yu

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

GENERAL COMMENTS

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

Package 1	3.0°C

Results relate only to the items tested.

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Maxxam Job #: B7O0149
Report Date: 2017/11/02

QUALITY ASSURANCE REPORT

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5237266	4-Bromofluorobenzene	2017/10/30	104	60 - 140	102	60 - 140	100	%		
5237266	D10-o-Xylene	2017/10/30	93	60 - 130	105	60 - 130	98	%		
5237266	D4-1,2-Dichloroethane	2017/10/30	100	60 - 140	101	60 - 140	101	%		
5237266	D8-Toluene	2017/10/30	97	60 - 140	100	60 - 140	97	%		
5240605	D10-Anthracene	2017/10/31	94	50 - 130	94	50 - 130	93	%		
5240605	D14-Terphenyl (FS)	2017/10/31	82	50 - 130	85	50 - 130	82	%		
5240605	D8-Acenaphthylene	2017/10/31	101	50 - 130	103	50 - 130	104	%		
5240623	o-Terphenyl	2017/10/31	101	60 - 130	101	60 - 130	99	%		
5237266	1,1,1,2-Tetrachloroethane	2017/10/30	99	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
5237266	1,1,1-Trichloroethane	2017/10/30	96	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
5237266	1,1,2,2-Tetrachloroethane	2017/10/30	93	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
5237266	1,1,2-Trichloroethane	2017/10/30	97	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
5237266	1,1-Dichloroethane	2017/10/30	104	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
5237266	1,1-Dichloroethylene	2017/10/30	109	60 - 140	109	60 - 130	<0.050	ug/g	NC	50
5237266	1,2-Dichlorobenzene	2017/10/30	92	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
5237266	1,2-Dichloroethane	2017/10/30	97	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
5237266	1,2-Dichloropropane	2017/10/30	96	60 - 140	96	60 - 130	<0.050	ug/g	NC	50
5237266	1,3-Dichlorobenzene	2017/10/30	97	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
5237266	1,4-Dichlorobenzene	2017/10/30	95	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
5237266	Acetone (2-Propanone)	2017/10/30	87	60 - 140	88	60 - 140	<0.50	ug/g	NC	50
5237266	Benzene	2017/10/30	104	60 - 140	103	60 - 130	<0.020	ug/g	NC	50
5237266	Bromodichloromethane	2017/10/30	95	60 - 140	95	60 - 130	<0.050	ug/g	NC	50
5237266	Bromoform	2017/10/30	95	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
5237266	Bromomethane	2017/10/30	106	60 - 140	106	60 - 140	<0.050	ug/g	NC	50
5237266	Carbon Tetrachloride	2017/10/30	101	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
5237266	Chlorobenzene	2017/10/30	96	60 - 140	100	60 - 130	<0.050	ug/g	NC	50
5237266	Chloroform	2017/10/30	101	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
5237266	cis-1,2-Dichloroethylene	2017/10/30	104	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
5237266	cis-1,3-Dichloropropene	2017/10/30	90	60 - 140	89	60 - 130	<0.030	ug/g	NC	50
5237266	Dibromochloromethane	2017/10/30	97	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
5237266	Dichlorodifluoromethane (FREON 12)	2017/10/30	95	60 - 140	98	60 - 140	<0.050	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
5237266	Ethylbenzene	2017/10/30	93	60 - 140	95	60 - 130	<0.020	ug/g	NC	50
5237266	Ethylene Dibromide	2017/10/30	98	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
5237266	F1 (C6-C10) - BTEX	2017/10/30					<10	ug/g	NC	30
5237266	F1 (C6-C10)	2017/10/30	99	60 - 140	98	80 - 120	<10	ug/g	NC	30
5237266	Hexane	2017/10/30	104	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
5237266	Methyl Ethyl Ketone (2-Butanone)	2017/10/30	95	60 - 140	97	60 - 140	<0.50	ug/g	NC	50
5237266	Methyl Isobutyl Ketone	2017/10/30	84	60 - 140	86	60 - 130	<0.50	ug/g	NC	50
5237266	Methyl t-butyl ether (MTBE)	2017/10/30	88	60 - 140	88	60 - 130	<0.050	ug/g	NC	50
5237266	Methylene Chloride(Dichloromethane)	2017/10/30	99	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
5237266	o-Xylene	2017/10/30	93	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
5237266	p+m-Xylene	2017/10/30	93	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
5237266	Styrene	2017/10/30	88	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
5237266	Tetrachloroethylene	2017/10/30	100	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
5237266	Toluene	2017/10/30	90	60 - 140	92	60 - 130	<0.020	ug/g	NC	50
5237266	Total Xylenes	2017/10/30					<0.020	ug/g	NC	50
5237266	trans-1,2-Dichloroethylene	2017/10/30	107	60 - 140	107	60 - 130	<0.050	ug/g	NC	50
5237266	trans-1,3-Dichloropropene	2017/10/30	91	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
5237266	Trichloroethylene	2017/10/30	103	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
5237266	Trichlorofluoromethane (FREON 11)	2017/10/30	106	60 - 140	106	60 - 130	<0.050	ug/g	NC	50
5237266	Vinyl Chloride	2017/10/30	103	60 - 140	103	60 - 130	<0.020	ug/g	NC	50
5238670	Moisture	2017/10/30							0	20
5240605	1-Methylnaphthalene	2017/11/01	100	50 - 130	99	50 - 130	<0.0050	ug/g	9.2	40
5240605	2-Methylnaphthalene	2017/11/01	92	50 - 130	90	50 - 130	<0.0050	ug/g	15	40
5240605	Acenaphthene	2017/11/01	90	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
5240605	Acenaphthylene	2017/11/01	99	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
5240605	Anthracene	2017/11/01	83	50 - 130	83	50 - 130	<0.0050	ug/g	NC	40
5240605	Benzo(a)anthracene	2017/11/01	90	50 - 130	90	50 - 130	<0.0050	ug/g	12	40
5240605	Benzo(a)pyrene	2017/11/01	83	50 - 130	86	50 - 130	<0.0050	ug/g	19	40
5240605	Benzo(b/j)fluoranthene	2017/11/01	77	50 - 130	82	50 - 130	<0.0050	ug/g	NC	40
5240605	Benzo(g,h,i)perylene	2017/11/01	76	50 - 130	78	50 - 130	<0.0050	ug/g	NC	40
5240605	Benzo(k)fluoranthene	2017/11/01	91	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40

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
5240605	Chrysene	2017/11/01	83	50 - 130	85	50 - 130	<0.0050	ug/g	22	40
5240605	Dibenz(a,h)anthracene	2017/11/01	83	50 - 130	84	50 - 130	<0.0050	ug/g	NC	40
5240605	Fluoranthene	2017/11/01	78	50 - 130	82	50 - 130	<0.0050	ug/g	NC	40
5240605	Fluorene	2017/11/01	95	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
5240605	Indeno(1,2,3-cd)pyrene	2017/11/01	84	50 - 130	84	50 - 130	<0.0050	ug/g	NC	40
5240605	Naphthalene	2017/11/01	84	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40
5240605	Phenanthrene	2017/11/01	88	50 - 130	85	50 - 130	<0.0050	ug/g	16	40
5240605	Pyrene	2017/11/01	81	50 - 130	84	50 - 130	<0.0050	ug/g	NC	40
5240623	F2 (C10-C16 Hydrocarbons)	2017/11/01	95	50 - 130	95	80 - 120	<10	ug/g	NC	30
5240623	F3 (C16-C34 Hydrocarbons)	2017/11/01	92	50 - 130	93	80 - 120	<50	ug/g	NC	30
5240623	F4 (C34-C50 Hydrocarbons)	2017/11/01	93	50 - 130	92	80 - 120	<50	ug/g	NC	30
5244307	F4G-sg (Grav. Heavy Hydrocarbons)	2017/11/02	NC	65 - 135	101	65 - 135	<100	ug/g	4.8	50

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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Maxxam Job #: B7O0149
Report Date: 2017/11/02

Golder Associates Ltd
Client Project #: 1788882 (2000)
Sampler Initials: AL

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Cristina Carriere

Cristina Carriere, Scientific Service Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), 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:

Company Name: #2292 Golder Associates Ltd
Attention: Accounts Payable
Address: 100 Scotia Crt, Whitby ON L1N 8Y6
Tel: (905) 723-2727 x Fax: (905) 723-2182 x
Email: AP_CustomerService@golder.com

REPORT TO:

Company Name:
Attention: Kevan Browne
Address:
Tel: Fax:
Email: kevan_browne@golder.com

PROJECT INFORMATION:

Quotation #: B70916
P.O. #:
Project: 1788882 (2000)
Project Name:
Site #:
Sampled By: A. Linklater

Laboratory Use Only:

Maxxam Job #:
Bottle Order #: 635306
COC #: C#635306-10-01
Project Manager: Ema Gitej

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM 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
☐ 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: 10/29/17 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 (Soil)	O.Reg 153 PAHs (Soil)	PHC	BTEX	# of Bottles	Comments
1		BH2 - SS1	10/25/17	11:10	Soil	X	X	X	X	4	27-Oct-17 08:30
2		BH2 - SS2	10/25/17	11:15	Soil	X	X	X	X	4	Ema Gitej
3		BH1 - SS1	10/25/17	AM	Soil	X	X	X	X	4	B7O0149
4		BH1 - SS2	10/25/17	AM	Soil	X	X	X	X	4	TST WAT-001
5		BH3 - SS1	10/24/17	13:05	Soil	X	X	X	X	4	REC'D IN WATERLOO
6		BH3 - SS2	10/24/17	13:10	Soil	X	X	X	X	4	
7		BH3 - SS3	10/24/17	13:15	Soil	X	X	X	X	4	
8											RUSH
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
Autumn Linklater Autumn Linklater	17/10/26	19:30	Froa Drake	05:2	2017102	
			[illegible] SIGNATURE IDRC	17/10/27	18:28	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	2 3 4	Present	✓	
		Intact	✓	

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxa Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'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.MAXXAM.CA/TERMS.

* 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 HTTP://MAXXAM.CA/WP-CONTENT/UPLOADS/ONTARIO-COC.PDF.

HW # 395836 2/4/4

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CHAIN OF CUSTODY RECORD

Page 1 of 2

INVOICE TO:
Company Name: #2292 Golder Associates Ltd
Attention: Accounts Payable
Address: 100 Scotia Crt, Whitby ON L1N 8Y6
Tel: (905) 723-2727 x Fax: (905) 723-2182 x
Email: AP_CustomerService@golder.com

REPORT TO:
Company Name:
Attention: Kevan Browne
Address:
Tel: Fax:
Email: kevan_browne@golder.com

PROJECT INFORMATION:
Quotation #: B70916
P.O. #:
Project: 1788882 (2000)
Project Name:
Site #:
Sampled By: A.Lintlater

Laboratory Use Only:
Maxxam Job #:
Bottle Order #: 635306
COC #: C#635306-11-01
Project Manager: Ema Gitej

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

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
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☐ Table ___

Other Regulations
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☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality
☐ PWQO
☐ 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: 10/29/17 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 (Soil)	O.Reg 153 PAHs (Soil)	PHC	BTEX	# of Bottles	Comments
1		BH6 SS1	10/26/17	PM	Soil	X	X	X	X	4	
2		BH6 SS2	10/26/17	PM	Soil					4	
3		BH6 SS3	10/26/17	PM	Soil					4	
4		BH6 SS4	10/26/17	PM	Soil					4	
5		BH4 SS1	10/26/17	AM	Soil					4	
6		BH4 SS2	10/26/17	AM	Soil					4	
7		BH5 SS1	10/26/17	AM	Soil					4	
8		BH5 SS2	10/26/17	AM	Soil					4	
9		BH5 SS3	10/26/17	AM	Soil					4	
10		BH5 SS4	10/26/17	AM	Soil					4	

27-Oct-17 08:30
Ema Gitej
B7O0149
TST WAT-001

RUSH

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Autumn Lintlater Autumnlintlater	17/10/26	10:30	Jrogerbrda [illegible]	2017/10/27	08:35	
			[illegible]	2017/10/27	18:28	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 2 3 1
Custody Seal: Present ☑ Intact ☑ — Yes ☑ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'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.MAXXAM.CA/TERMS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT HTTP://MAXXAM.CA/WP-CONTENT/UPLOADS/ONTARIO-COC.PDF.

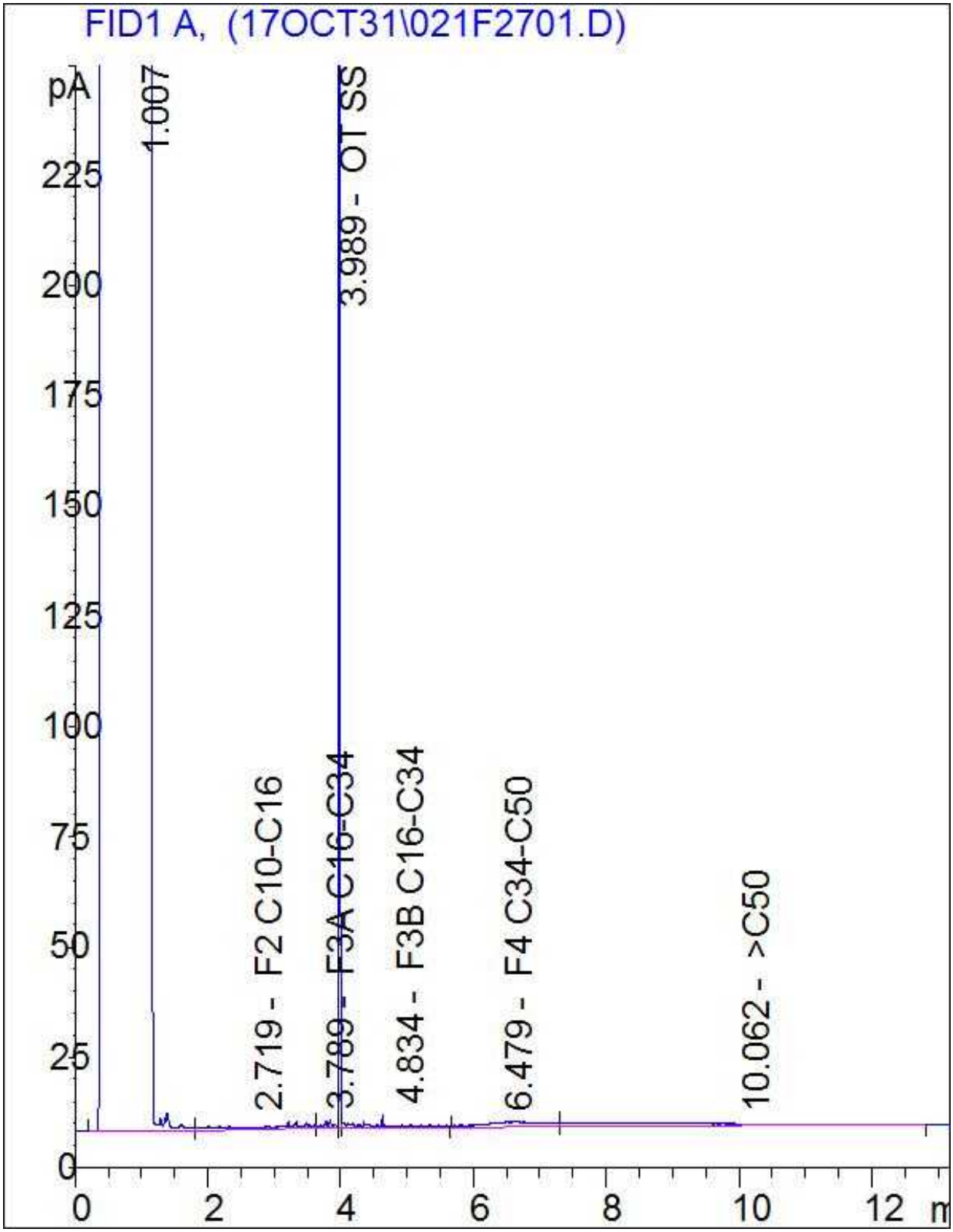
SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxa Yellow: Client

HW # 395836 2/4/4

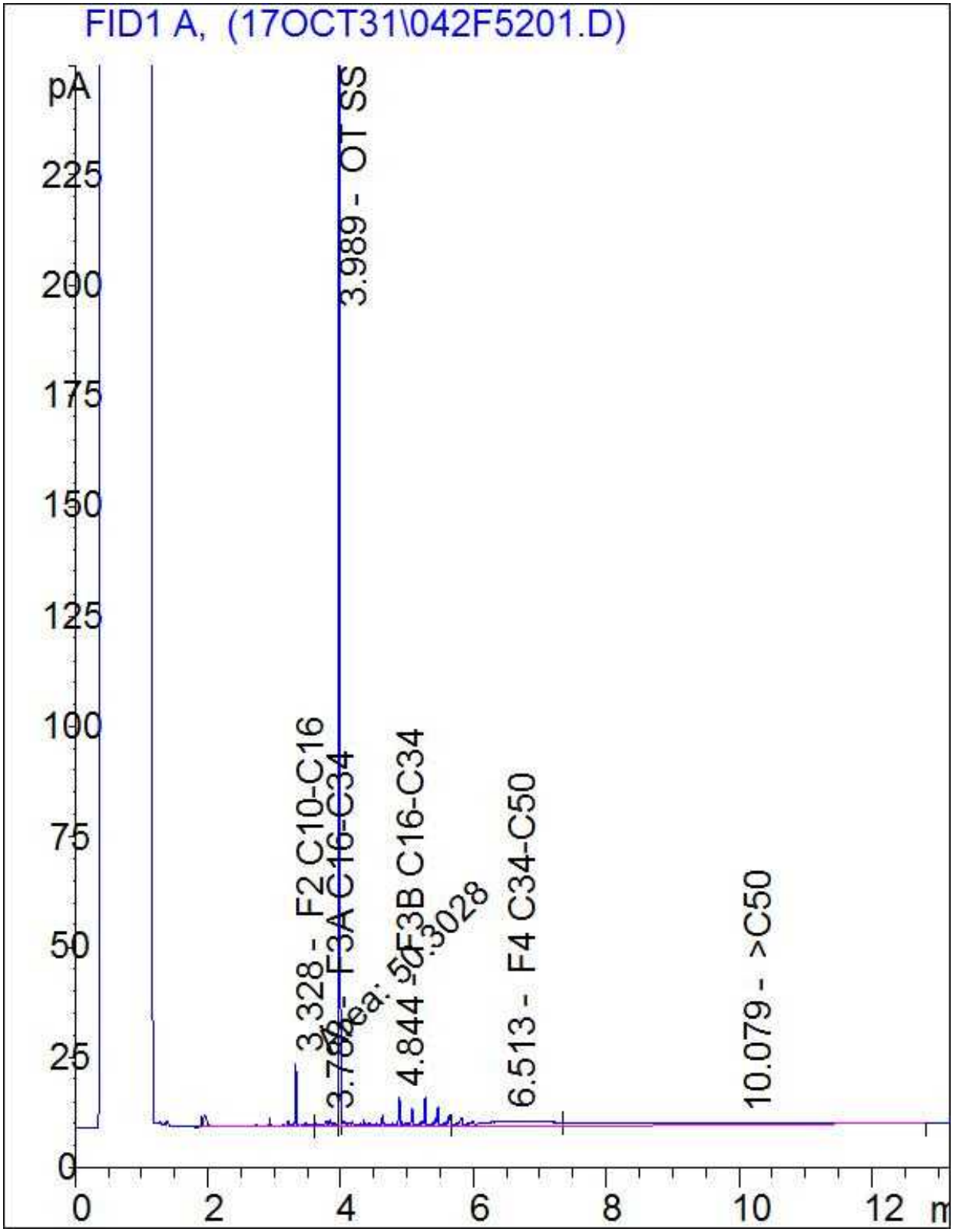
Maxxam Analytics International Corporation o/a Maxxam Analytics

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

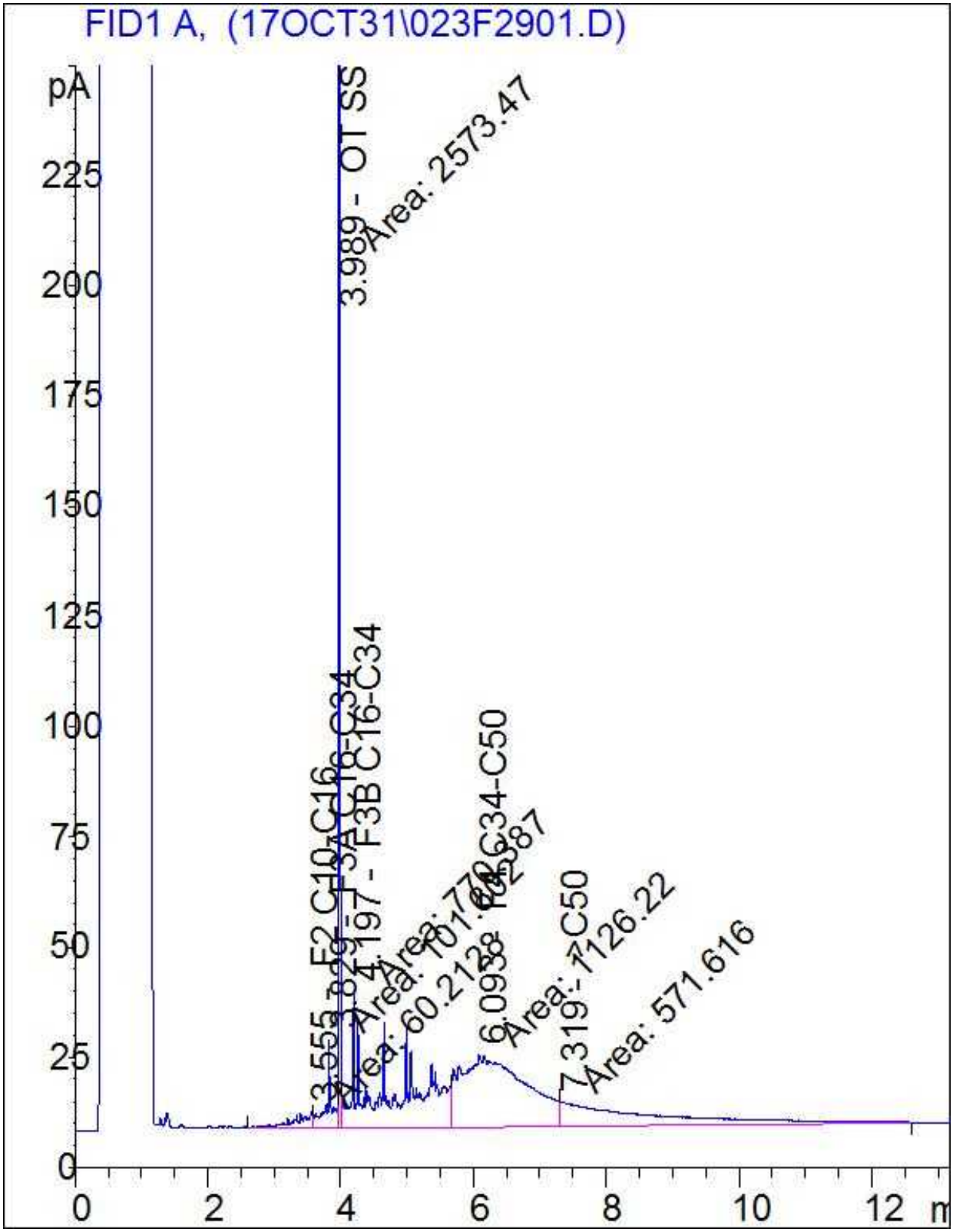


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Maxxam Job #: B7O0149
Report Date: 2017/11/02
Maxxam Sample: FKV503

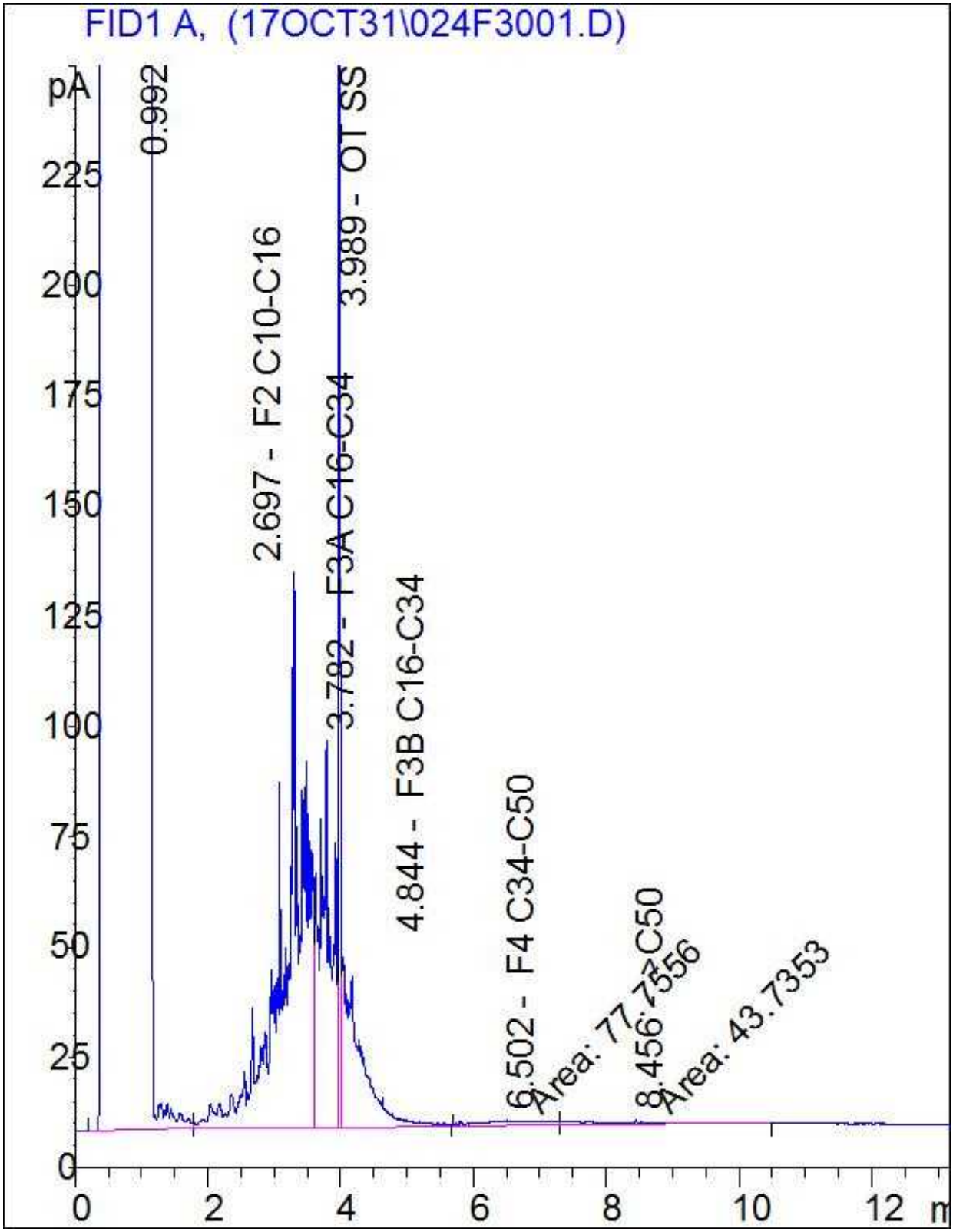
Golder Associates Ltd
Client Project #: 1788882 (2000)
Client ID: BH6 SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



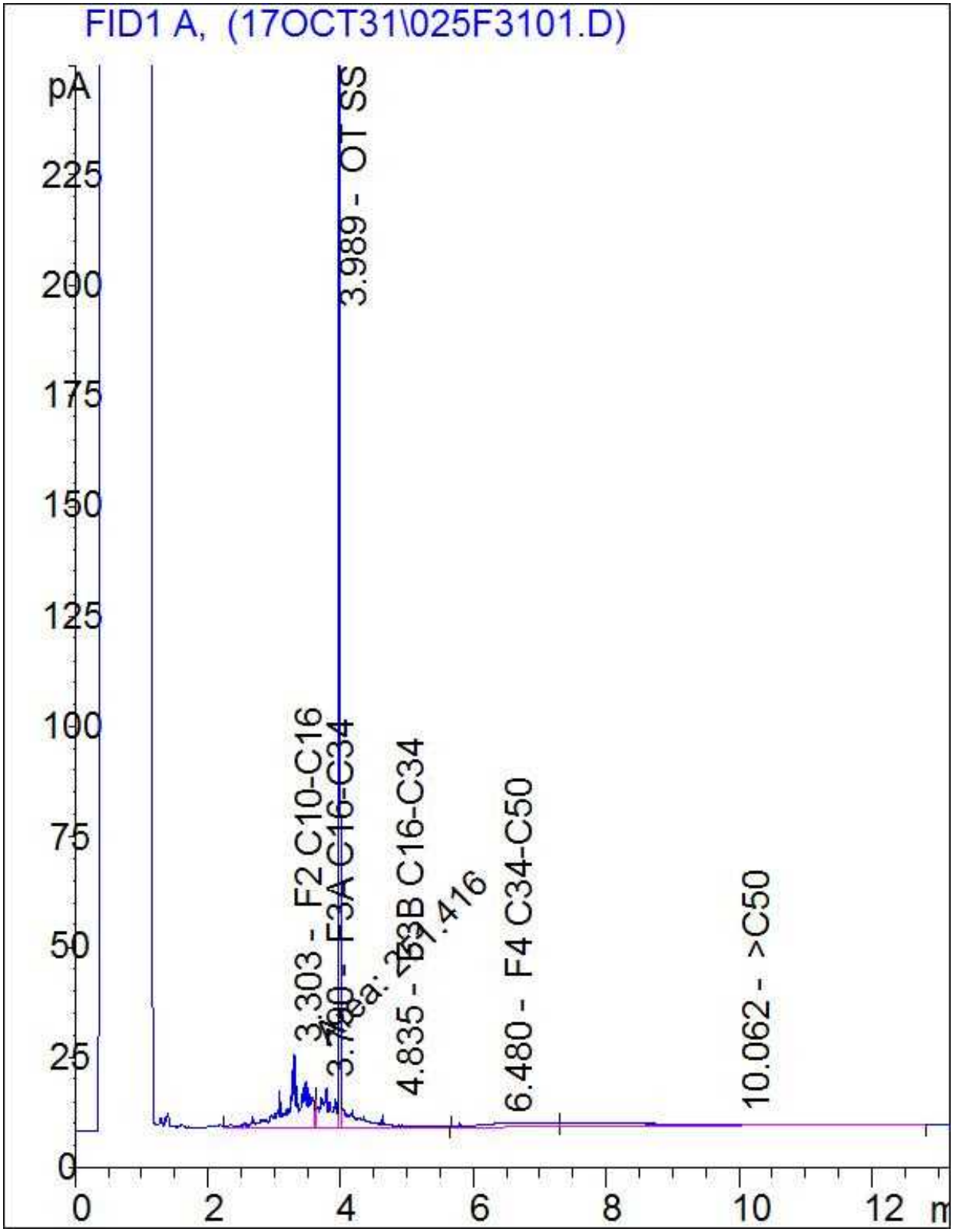
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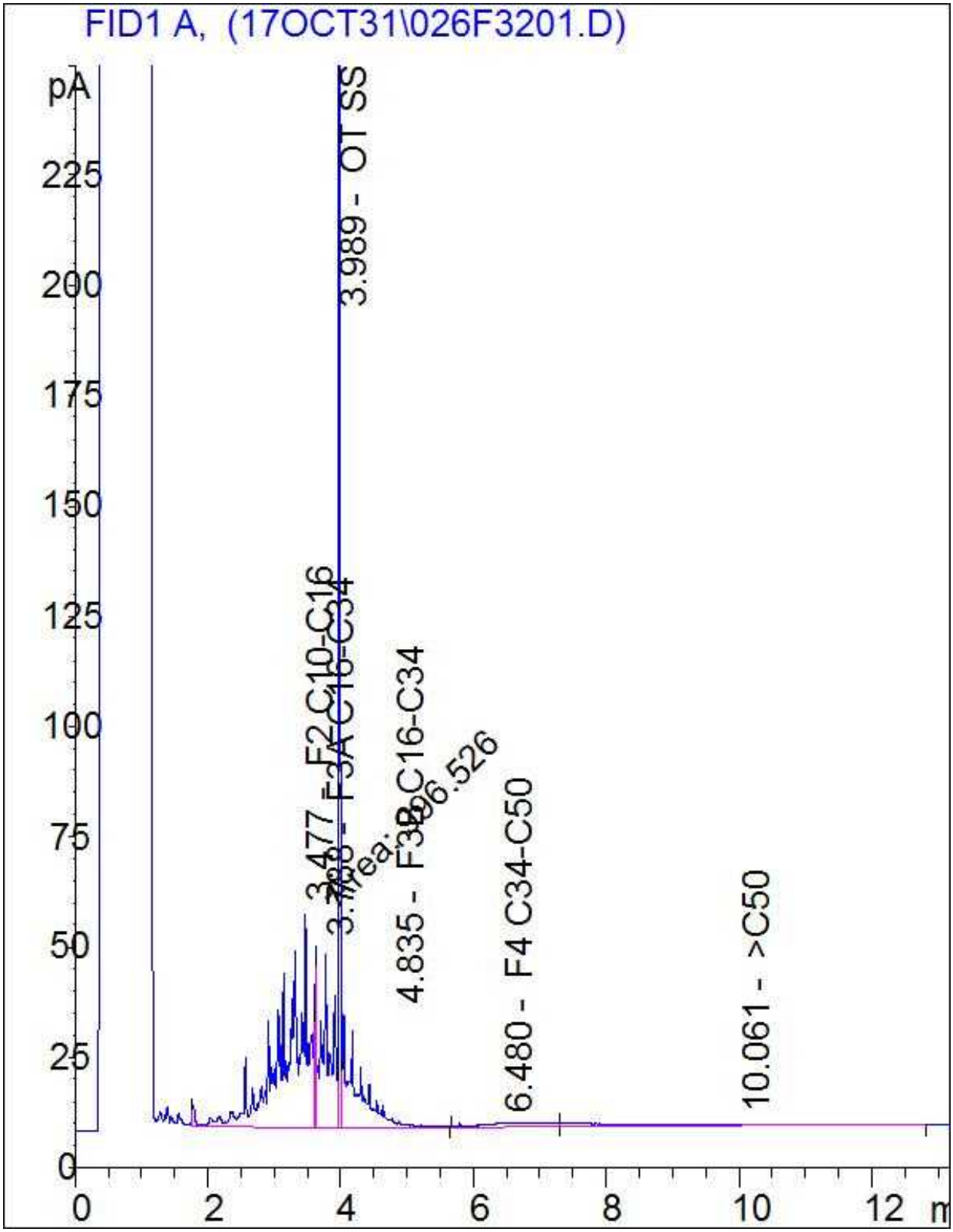
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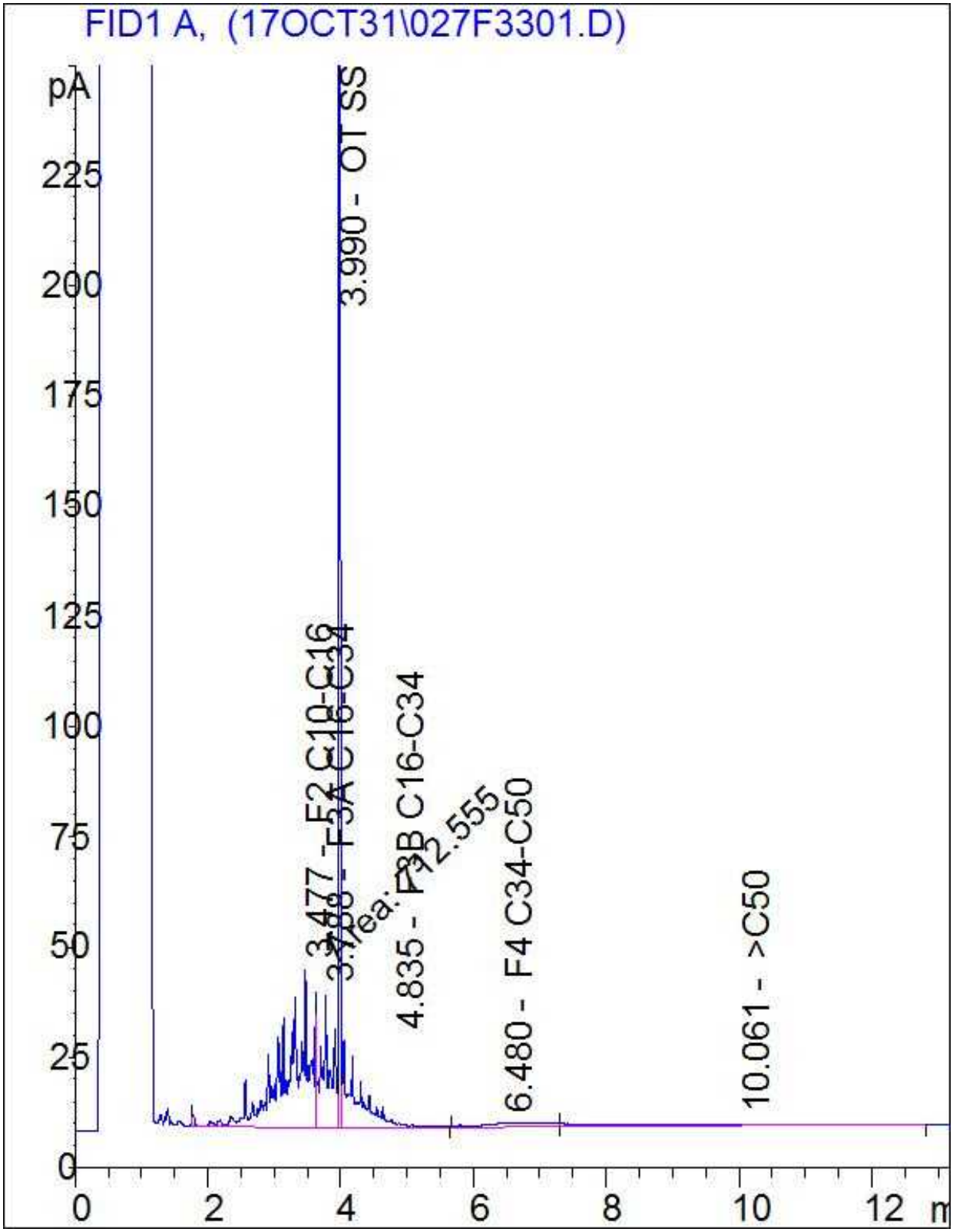
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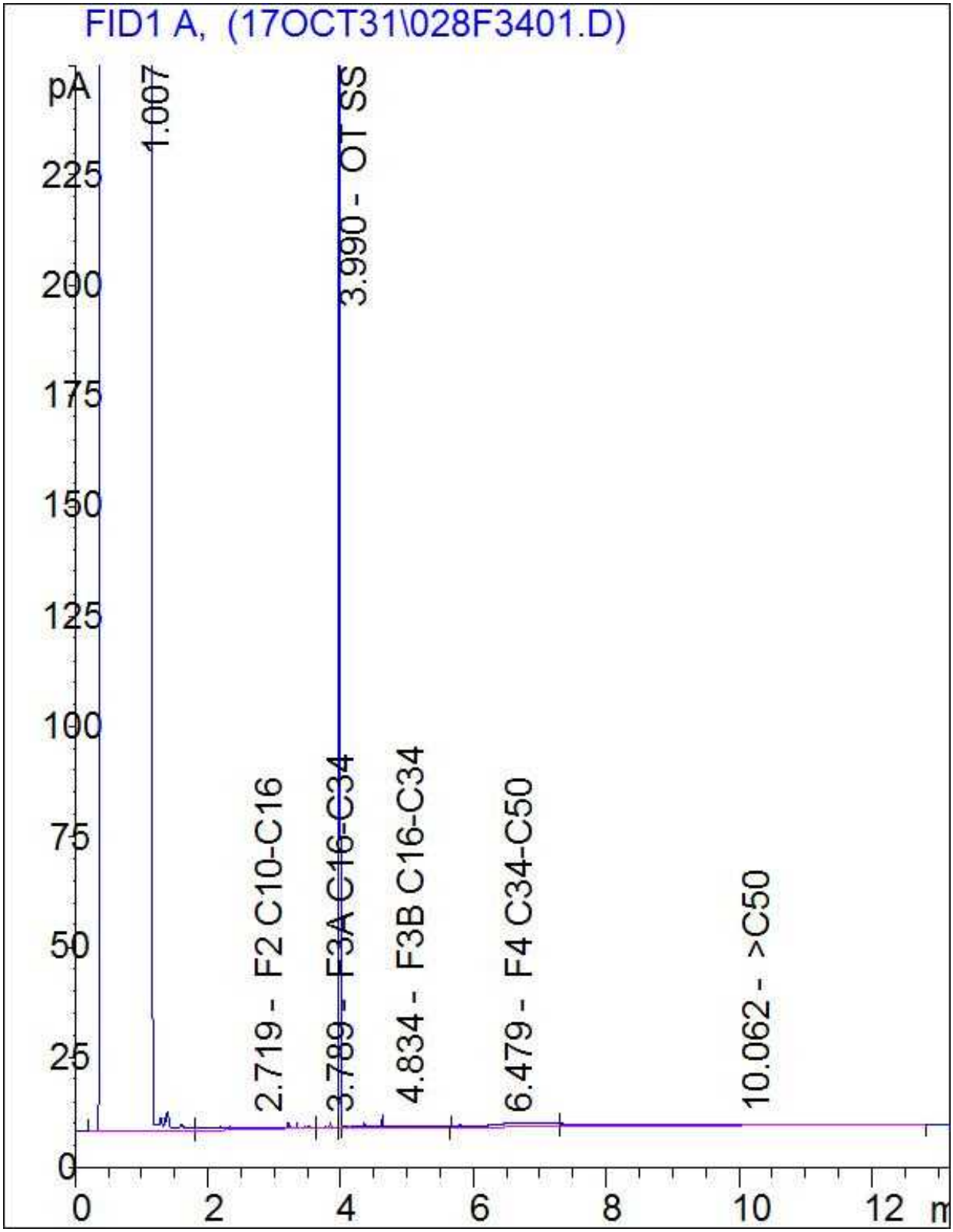
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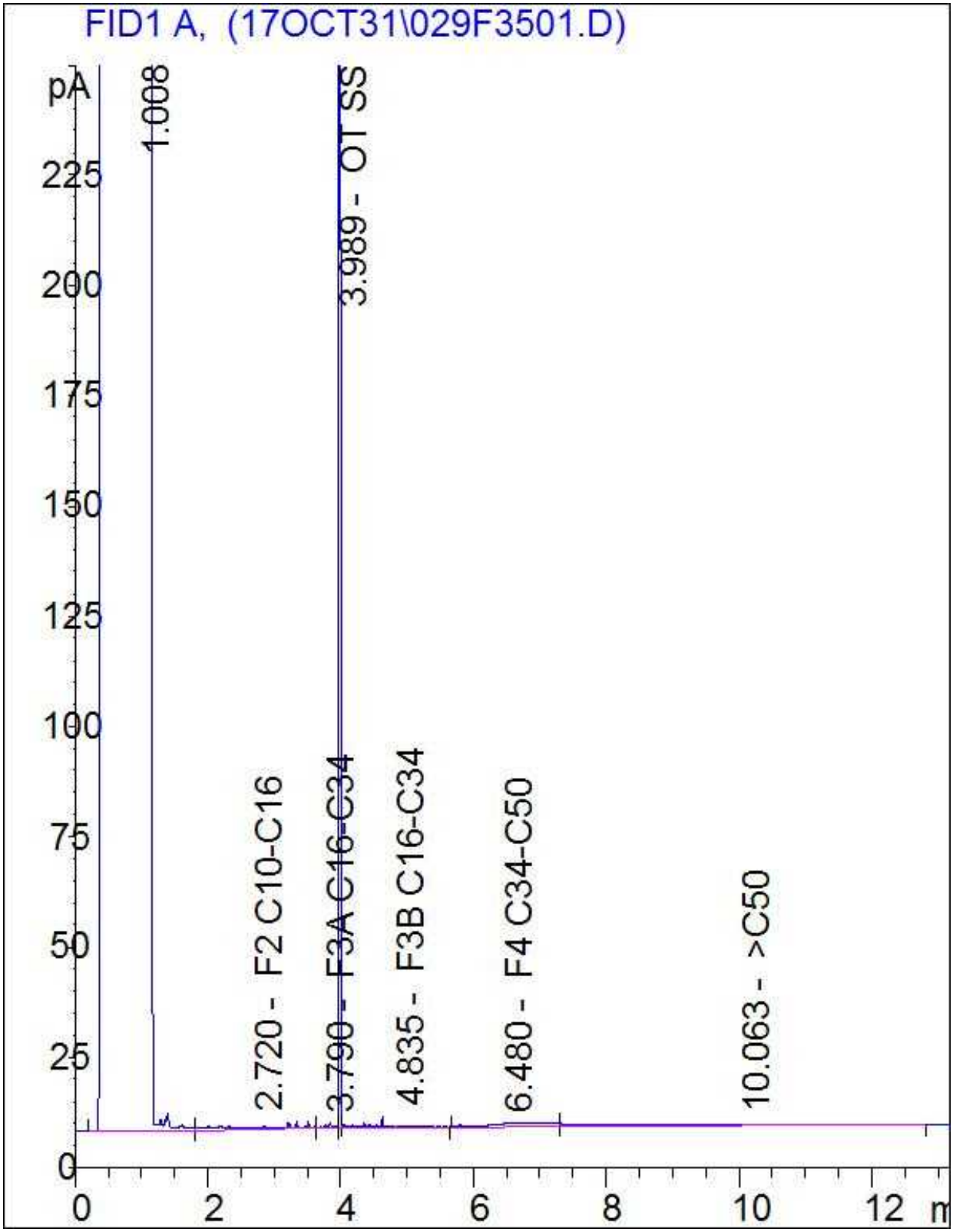
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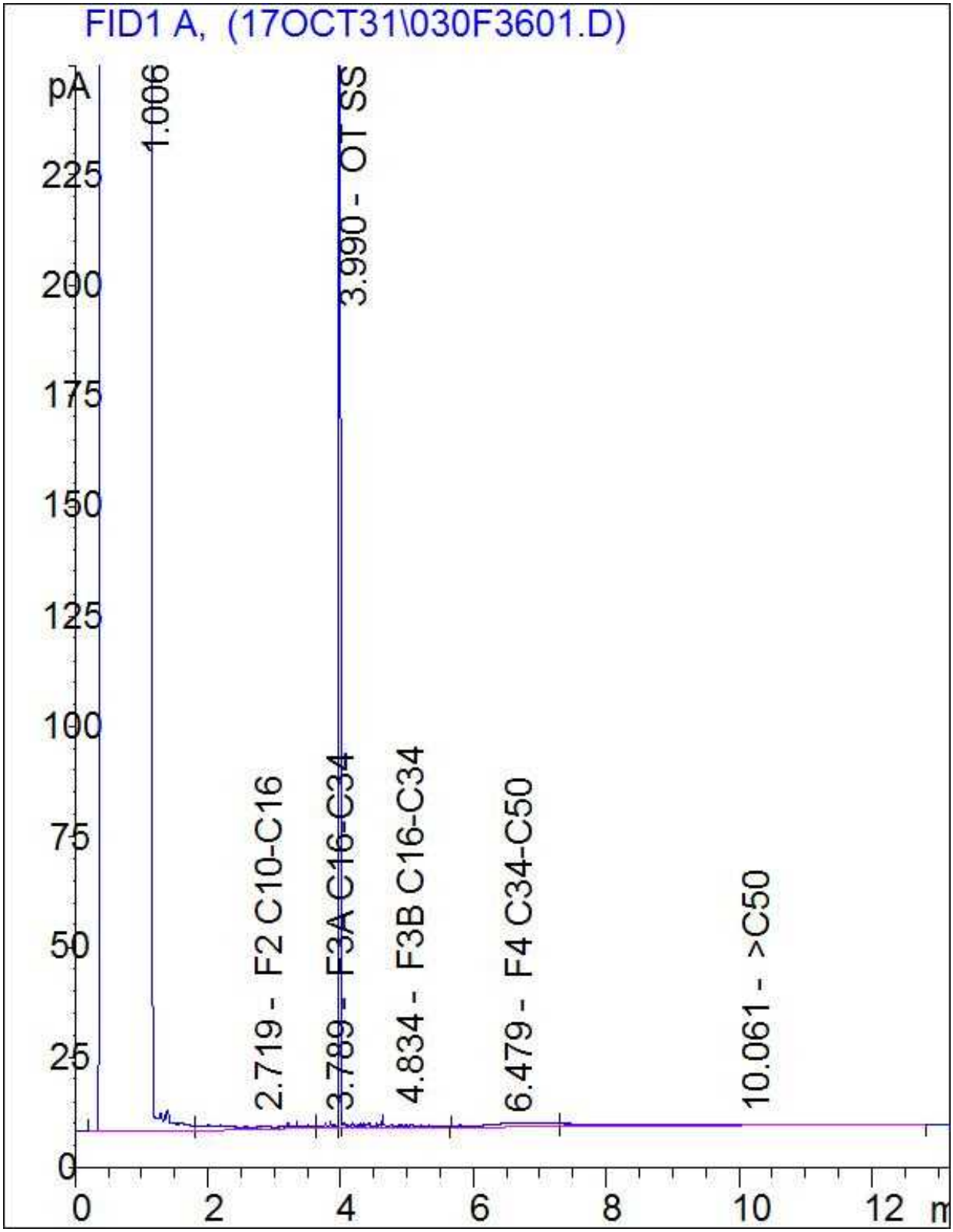
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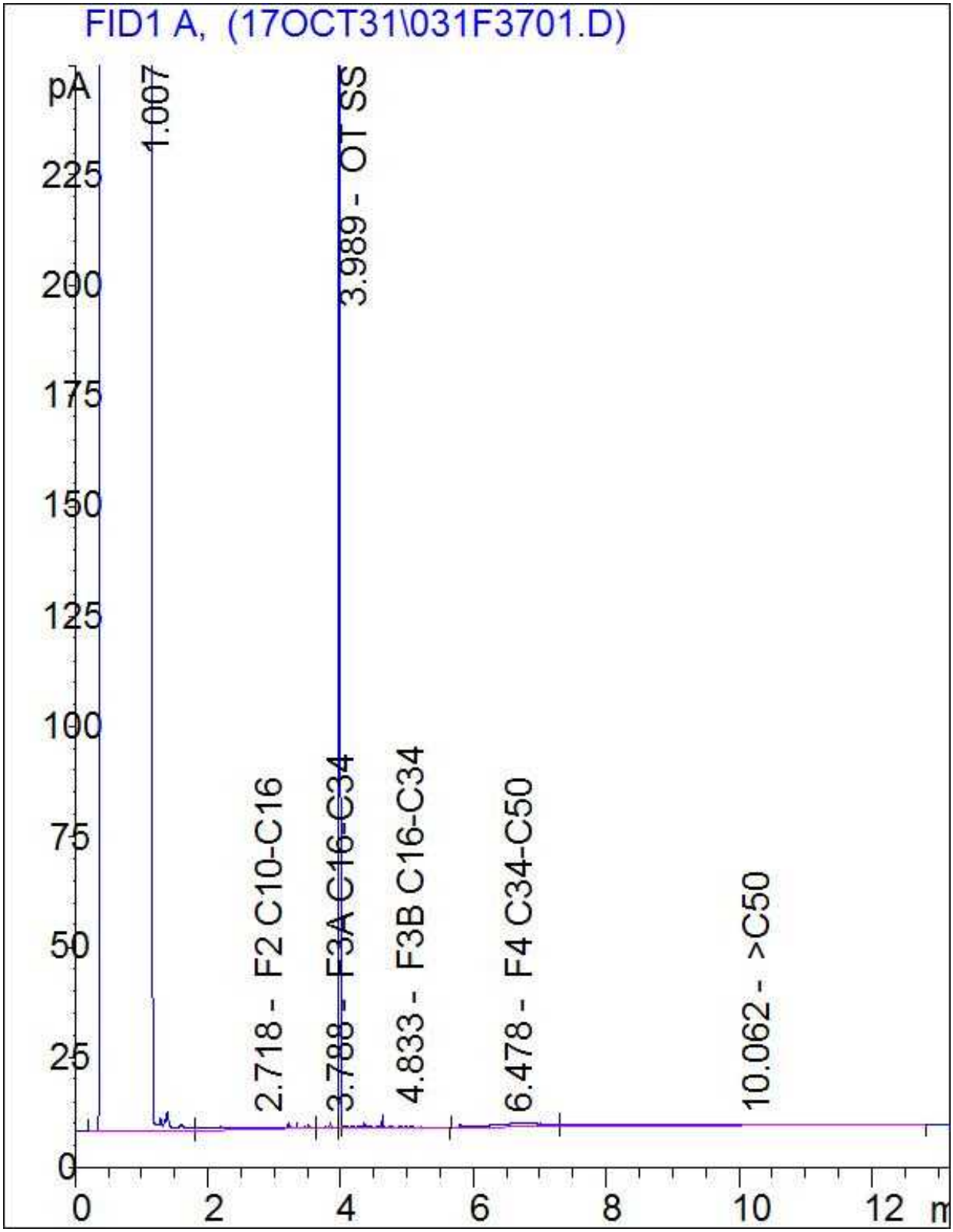
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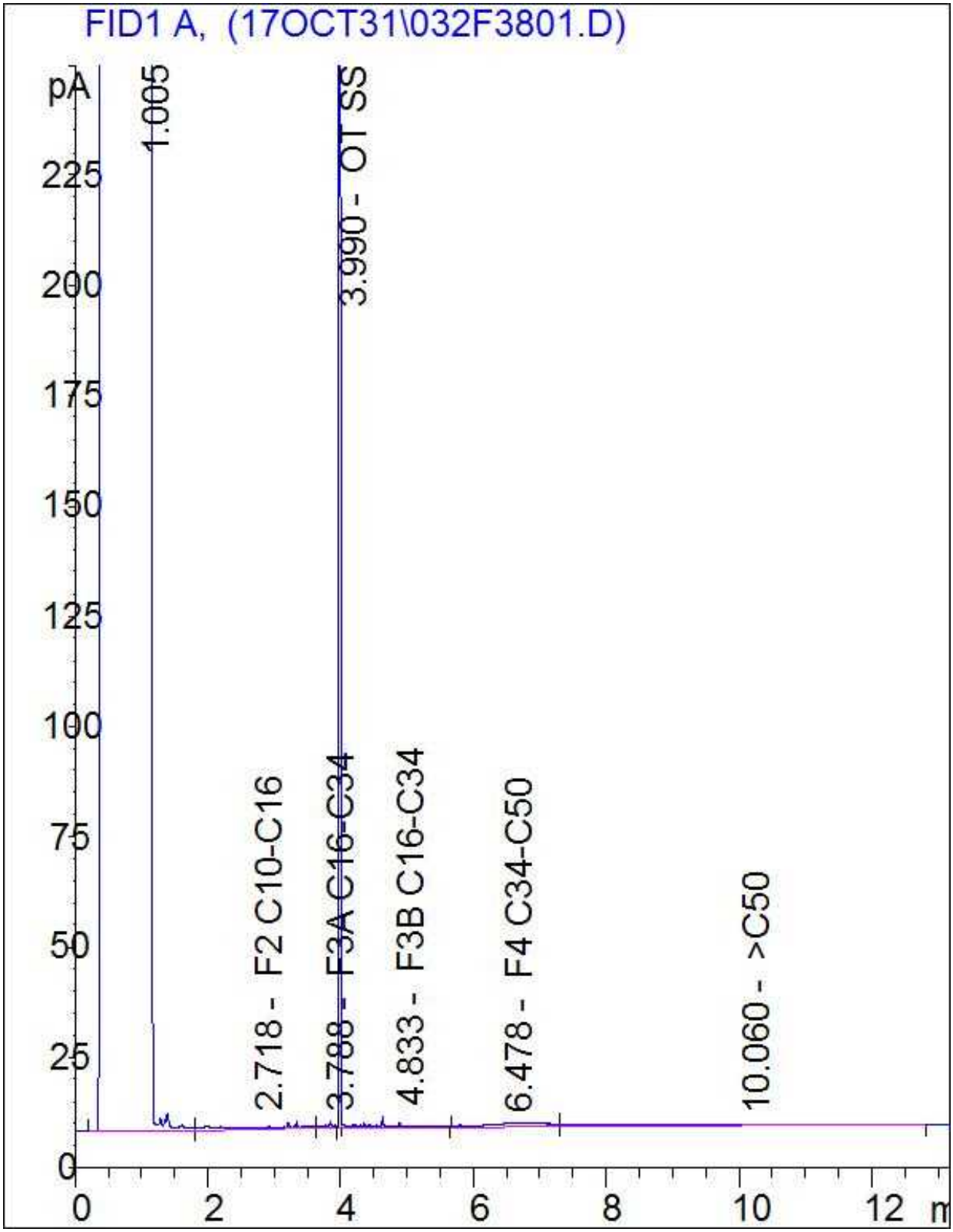
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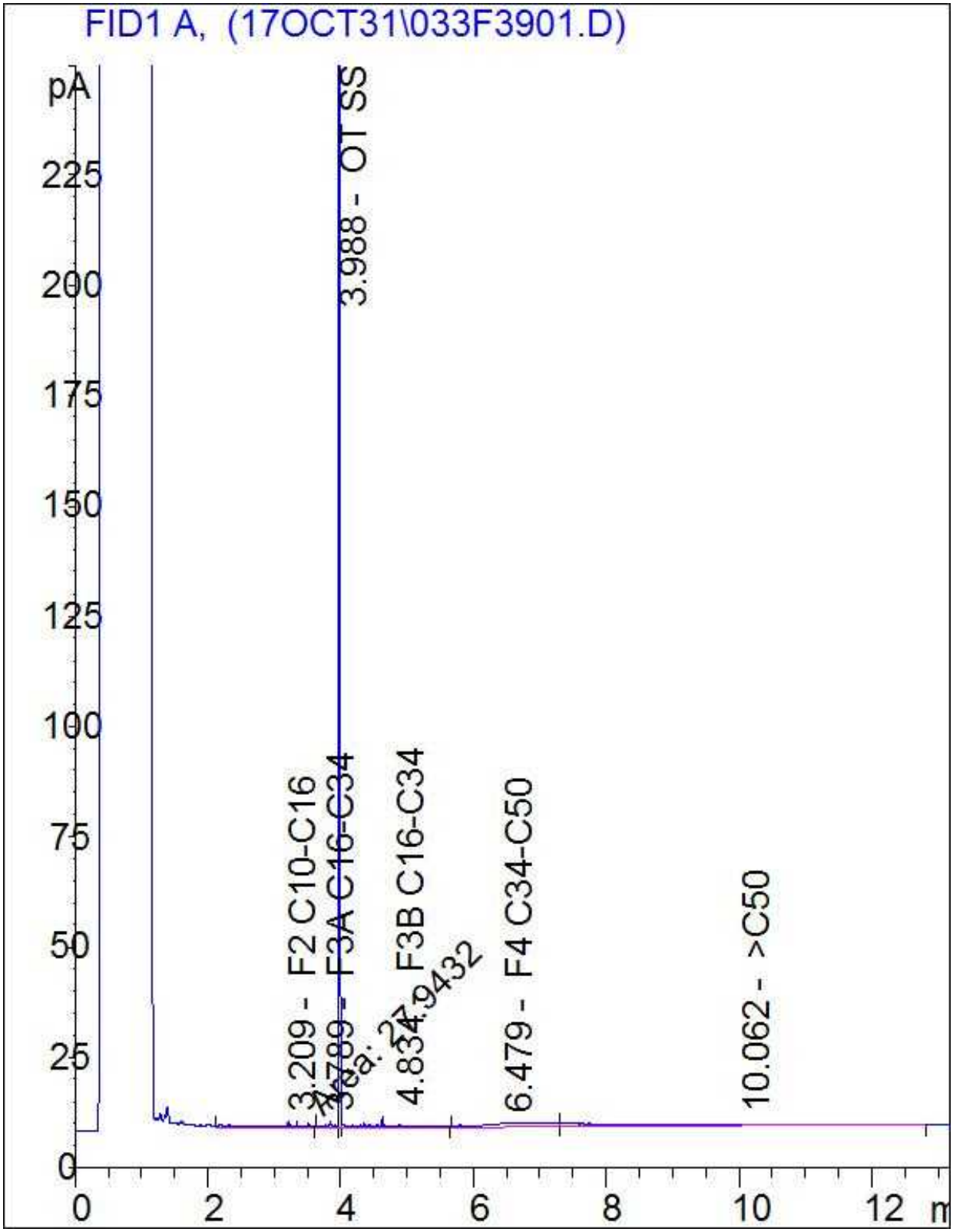
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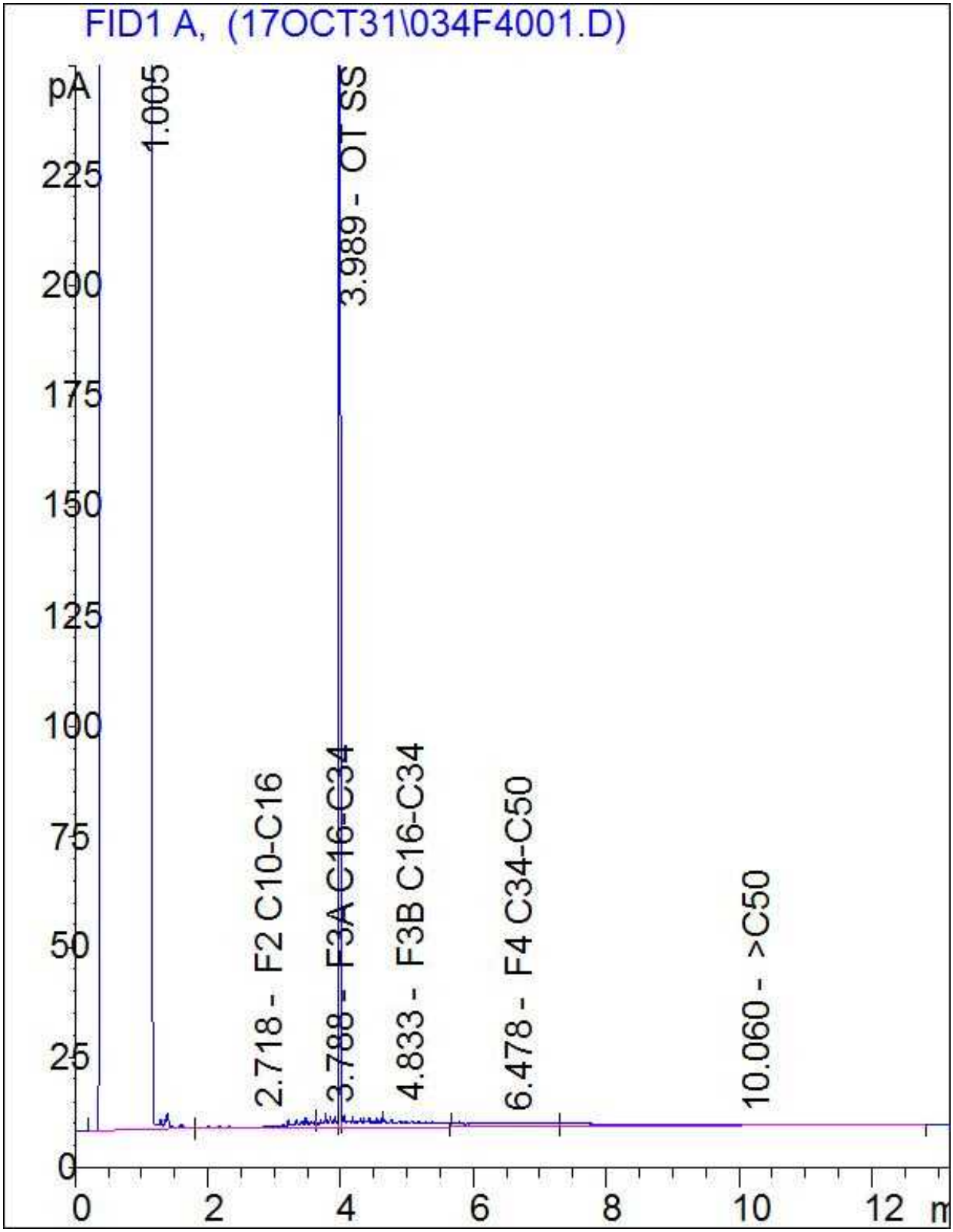
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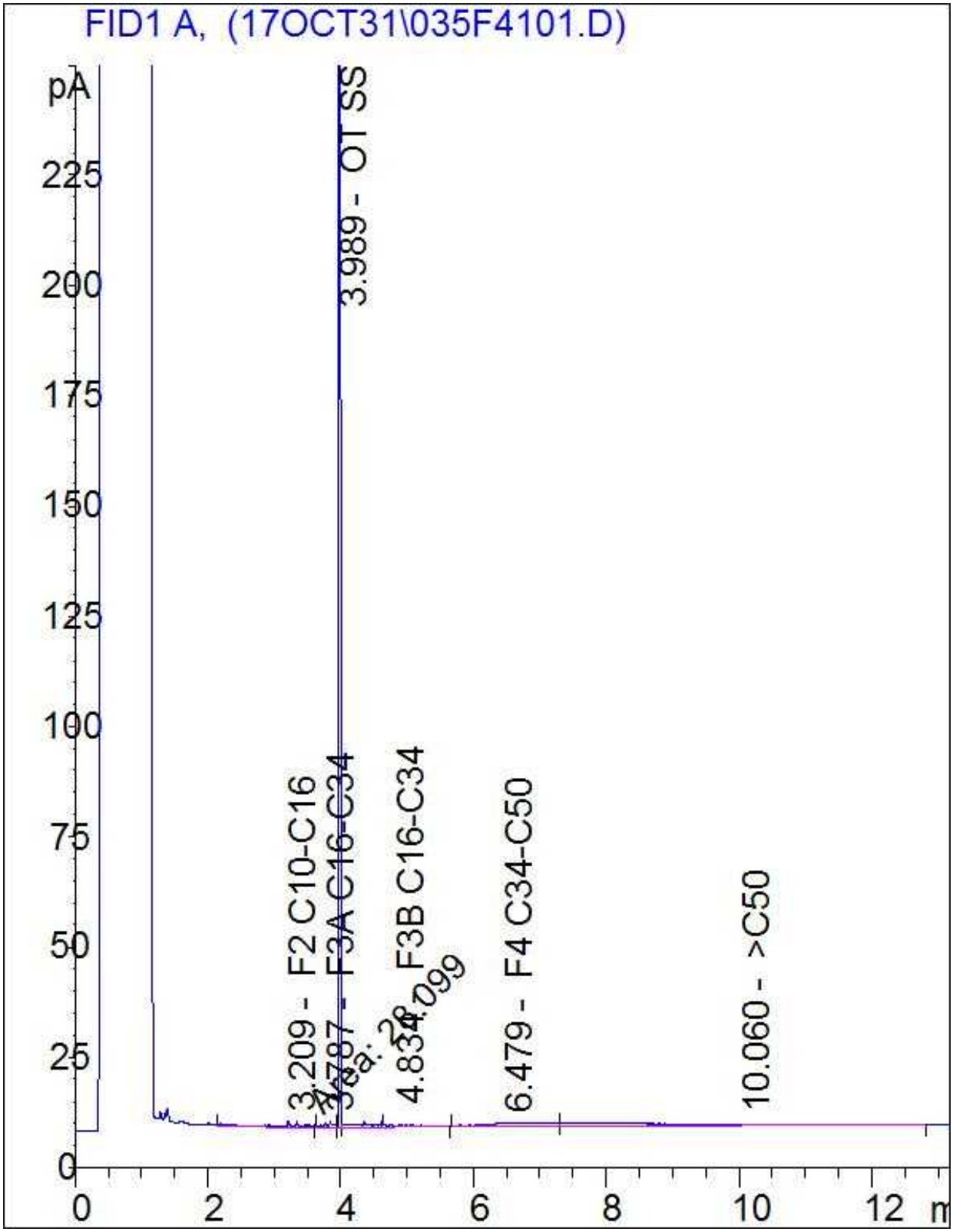
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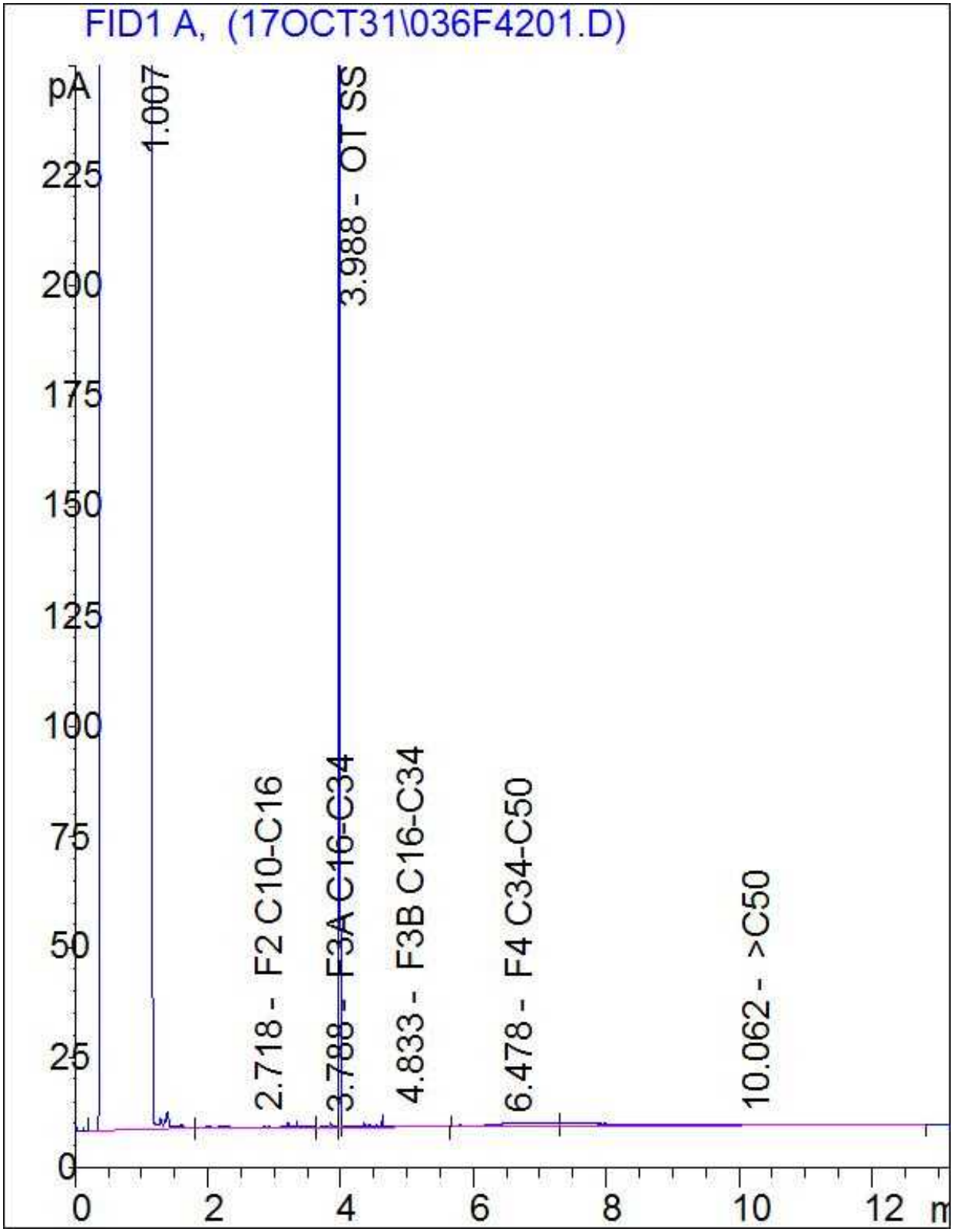
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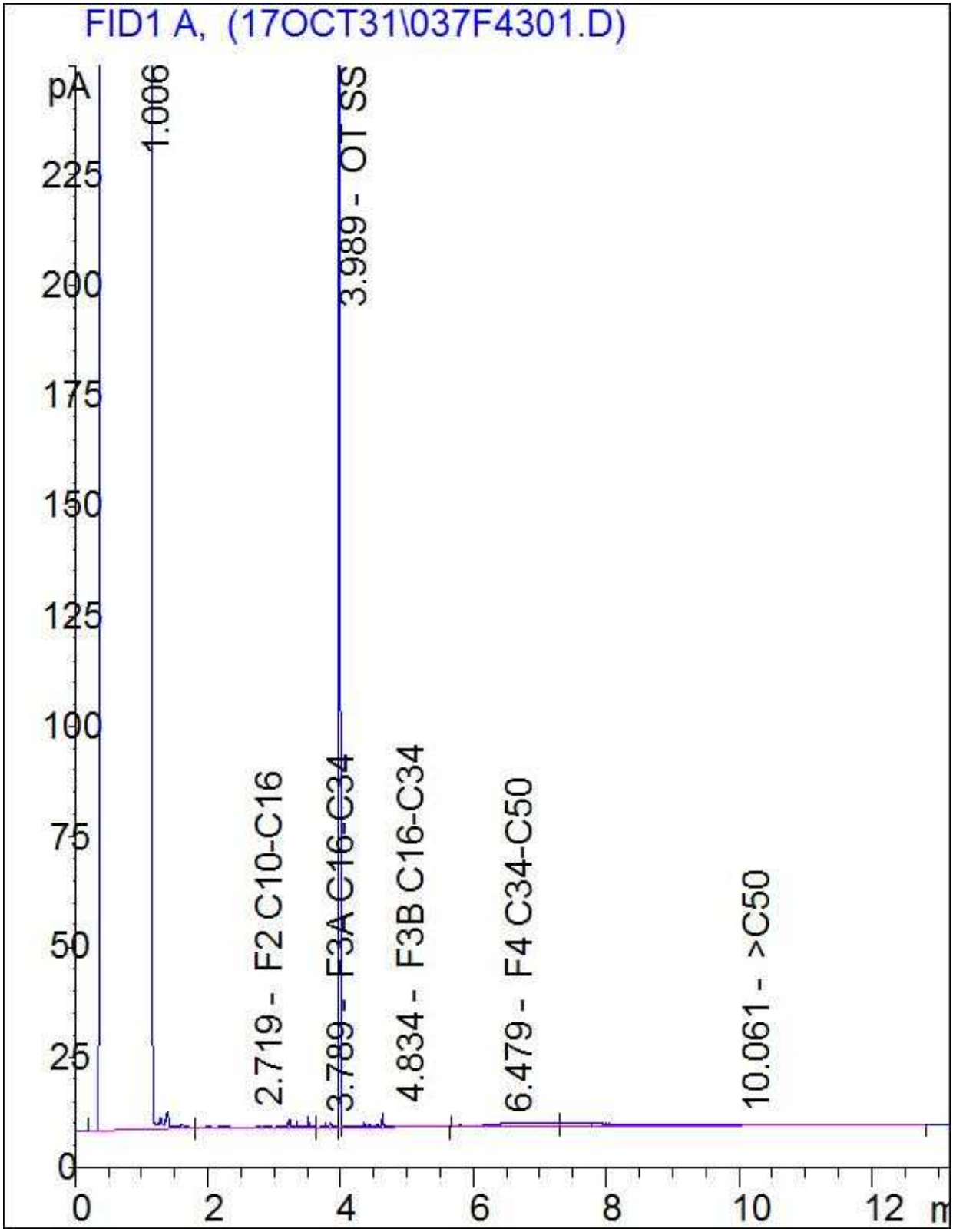
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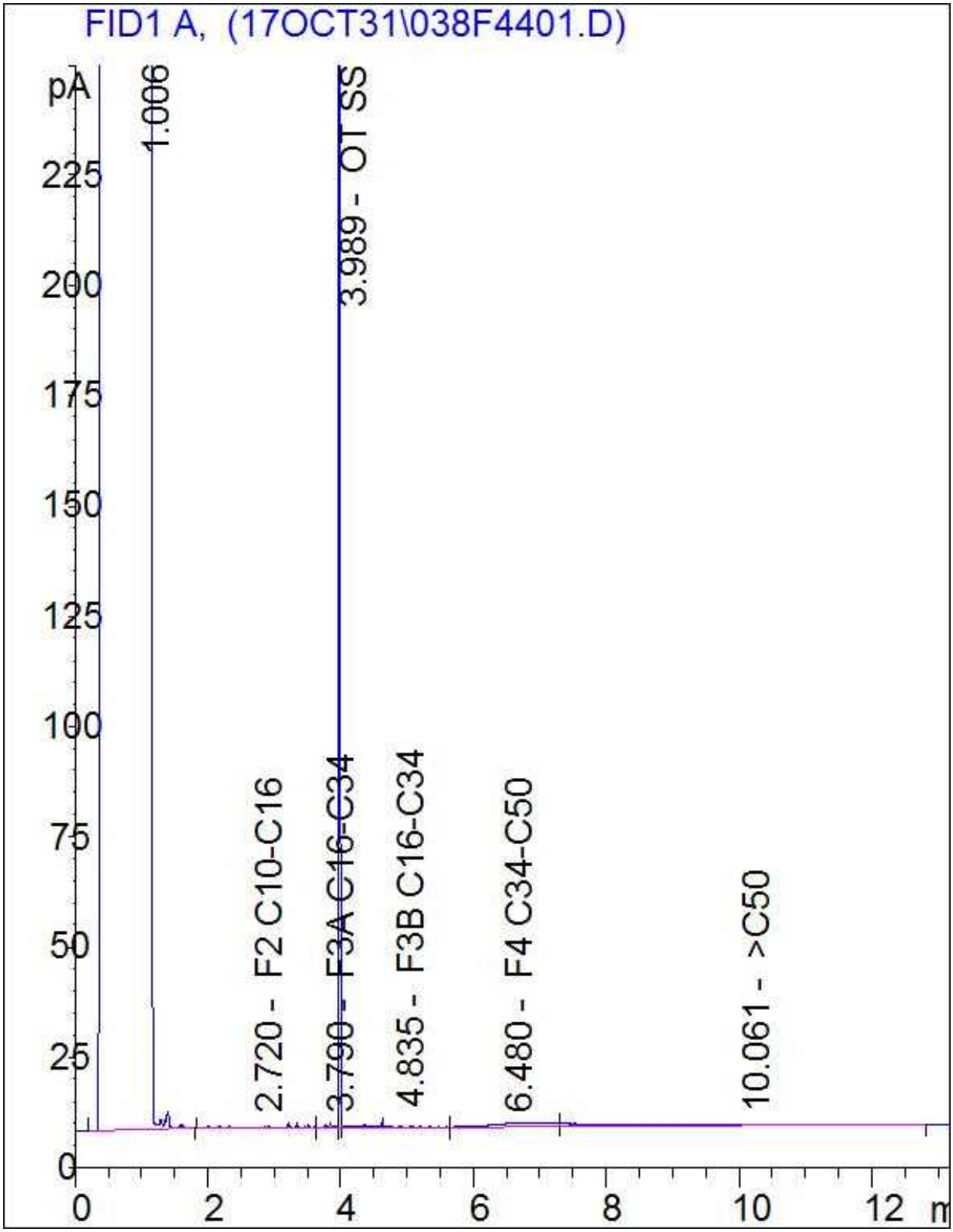
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At Golder Associates we strive to be the most respected global company providing consulting, design, and construction services in earth, environment, and related areas of energy. Employee owned since our formation in 1960, our focus, unique culture and operating environment offer opportunities and the freedom to excel, which attracts the leading specialists in our fields. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees who operate from offices located throughout Africa, Asia, Australasia, Europe, North America, and South America.

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Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

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Whitby, Ontario, L1N 8Y6
Canada
T: +1 (905) 723 2727

Golder Associates

December 27, 2017 Project No. 1785585

Rosalind Minaji, Coordinator of Development Review
City of Burlington
City Hall
426 Brant Street
P.O. Box 5013
Burlington, Ontario
L7R 3Z6

RE: GOLDER ASSOCIATES LTD. ENVIRONMENTAL, GEOTECHNICAL AND HYDROGEOLOGICAL REPORTS, BRANT LAND ASSEMBLY, BURLINGTON, ONTARIO - RELIANCE LETTER

Dear Ms. Minaji

The City of Burlington (the "City") has requested that Golder Associates Ltd. ("Golder") provide reliance upon the environmental, geotechnical and hydrogeological reports, including attachments (the "Reports") referenced below prepared by Golder for Reserve Properties Ltd. ("Reserve"), the developer of the properties located at 401, 403, 405, 409, 411 and 413 Brant Street, 444, 448 and 450 John Street, and 2012 James Street in Burlington, Ontario (collectively, the "Site") at the time the below mentioned Reports were published.:

- "*Phase I Environmental Site Assessment, Brant Street and James Street, Burlington, Ontario"* dated November, 2017, Golder Project No.: 1788882;
- "*Phase II Environmental Site Assessment, Brant Street and James Street, Burlington, Ontario"* dated November, 2017, Golder Project No.: 1788882 (2000);
- "*Geotechnical Evaluation, Brant Street and John Street, Burlington, Ontario*", dated December 18, 2017, Golder Project No.: 1788882; and
- "Hydrogeological Assessment, Proposed Residential Development, Brant and James Streets, Burlington, Ontario", dated December 1, 2017, Golder Project No.; 1785582 (3000).

In order to facilitate this request and to establish privity between the City and Golder, this reliance agreement, and any reliance on the Report, is conditioned upon the City (i) agreeing to the terms, conditions, and limitations stipulated in the attached General Terms & Conditions and in the Reports, and (ii) agreeing to only rely on the Reports in their entirety. In the event that the City does not agree with these conditions, which are the pre-conditions to any reliance on the enclosures, please immediately return this letter with the enclosures attached.

The scope and the period of Golder's assessment are described in the Reports, and are subject to restrictions and limitations. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site referenced in the Reports. Conditions may therefore exist which were undetectable given the limited nature of the inquiry Golder was retained to undertake with respect to the Site. Accordingly, additional environmental, geotechnical and/or hydrogeological studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in such reports. Golder's opinions are based

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upon information that existed at the time of the writing of the Reports. It is understood that the services provided for in the scopes of work allowed Golder to form no more than an opinion of the known conditions of the Site at the time the Site was visited and cannot be used to assess the effect of any subsequent changes in any laws, regulations, the environmental, geotechnical and/or hydrogeological quality of the Site or its surroundings. If a service is not expressly indicated, do not assume it has been provided.

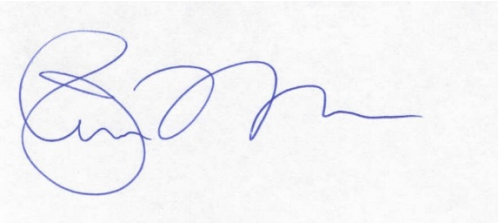
Except as required by law, the City agrees not to disclose or distribute the agreement or Reports furnished hereunder to any third party, or make any reproductions (except for those required by its accountants, regulators, and legal advisors, which shall include a copy of this reliance agreement). This reliance agreement is not assignable and does not confer any right or benefit upon any third party unless advance written agreement is made between Golder and the third party.

Subject to each and every of the foregoing conditions the City may rely on the information, data and opinions contained in the Reports.

If you have any questions, please do not hesitate to contact me directly at (905) 723-2727 x 6615.

Yours truly,

GOLDER ASSOCIATES LTD.



T.A. McIelwain, P.Eng.
Principal, Environmental Management Division

TAM/tm

CC: Shane Fenton, Reserve Properties Ltd.

Attachments: Authorization to Proceed and Consulting Services Agreement

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December 27, 2017 Project No. 1785585

Curt Benson, Commissioner of Planning
Halton Region
1151 Bronte Road
Oakville, Ontario
L6M 3L1

RE: GOLDER ASSOCIATES LTD. ENVIRONMENTAL, GEOTECHNICAL AND HYDROGEOLOGICAL REPORTS, BRANT LAND ASSEMBLY, BURLINGTON, ONTARIO - RELIANCE LETTER

Dear Mr. Benson

Halton Region (the "Region") has requested that Golder Associates Ltd. ("Golder") provide reliance upon the environmental, geotechnical and hydrogeological reports, including attachments (the "Reports") referenced below prepared by Golder for Reserve Properties Ltd. ("Reserve"), the developer of the properties located at 401, 403, 405, 409, 411 and 413 Brant Street, 444, 448 and 450 John Street, and 2012 James Street in Burlington, Ontario (collectively, the "Site") at the time the below mentioned Reports were published.:

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- "Hydrogeological Assessment, Proposed Residential Development, Brant and James Streets, Burlington, Ontario", dated December 1, 2017, Golder Project No.; 1785582 (3000).

In order to facilitate this request and to establish privity between the Region and Golder, this reliance agreement, and any reliance on the Report, is conditioned upon the Region (i) agreeing to the terms, conditions, and limitations stipulated in the attached General Terms & Conditions and in the Reports, and (ii) agreeing to only rely on the Reports in their entirety. In the event that the Region does not agree with these conditions, which are the pre-conditions to any reliance on the enclosures, please immediately return this letter with the enclosures attached.

The scope and the period of Golder's assessment are described in the Reports, and are subject to restrictions and limitations. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site referenced in the Reports. Conditions may therefore exist which were undetectable given the limited nature of the inquiry Golder was retained to undertake with respect to the Site. Accordingly, additional environmental, geotechnical and/or hydrogeological studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in such reports. Golder's opinions are based

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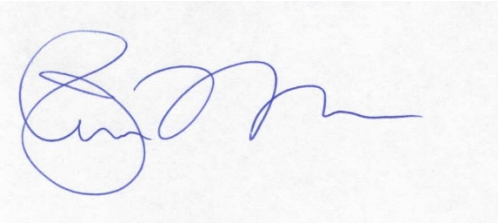
Except as required by law, the Region agrees not to disclose or distribute the agreement or Reports furnished hereunder to any third party, or make any reproductions (except for those required by its accountants, regulators, and legal advisors, which shall include a copy of this reliance agreement). This reliance agreement is not assignable and does not confer any right or benefit upon any third party unless advance written agreement is made between Golder and the third party.

Subject to each and every of the foregoing conditions the Region may rely on the information, data and opinions contained in the Reports.

If you have any questions, please do not hesitate to contact me directly at (905) 723-2727 x 6615.

Yours truly,

GOLDER ASSOCIATES LTD.



T.A. McIelwain, P.Eng.
Principal, Environmental Management Division

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CC: Shane Fenton, Reserve Properties Ltd.

Attachments: Authorization to Proceed and Consulting Services Agreement

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